

DOCKETED

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CALIFORNIA ENERGY COMMISSION

In the matter of:

)	
Business Meeting)	Docket No. 25-BUSMTG-01
_____)	

WEDNESDAY, AUGUST 13, 2025

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

In-person at:

CALIFORNIA NATURAL RESOURCES AGENCY BUILDING
715 P STREET
FIRST FLOOR AUDITORIUM
SACRAMENTO, CALIFORNIA 95814
(Wheelchair Accessible)

The California Energy Commission (CEC) aims to begin the business meeting promptly at the start time and the end time is an estimate based on the agenda proposed. The meeting may end sooner or later than the time indicated depending on various factors. Commissioners may attend remotely in accordance with Government Code section 11123.2(j).

Pursuant to the California Code of Regulations (CCR), title 20, section 1104(e), any person may make an oral comment on any agenda item. To ensure the orderly conduct of business, such comments will be limited to two minutes or less per person.

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<https://www.energy.ca.gov/proceedings/business-meetings>.

Reported by:
Martha Nelson

APPEARANCESCOMMISSIONERS

David Hochschild, Chair

Siva Gunda, Vice Chair

Andrew McAllister, Commissioner

Nancy Skinner, Commissioner

STAFF

Drew Bohan, Executive Director

Sanjay Ranchod, Chief Counsel

Jeremy Smith, Deputy Director, Energy Assessments Division

Gavin Situ, Mechanical Engineer, Efficiency Division, Load
Management Standards

Bryan Neff, Energy Assessments Division

Elyse Kedzie, Energy Storage Engineer, Infrastructure
Transition Unit, Energy Research and Development Division

Tanner Kural, Energy Research and Development Division,
Energy Resilience Unit, Sustainability and Resilience
Branch

PUBLIC ADVISOR

Mona Badie

ALSO PRESENT

Georgia Walker-Keleher, Chair Hochschild's Summer Fellow

Josh Boone, Executive Director, Veloz

APPEARANCESPUBLIC COMMENT

Claire Zuma

Steve Uhler

Tanya DeRivi, Western States Petroleum Association

Katharine Larson, Sacramento Municipal Utility District

Michael Quiroz, Ava Community Energy

Michael Galluzzo, Enzinc, Inc.

Deepak Upadhyay, DarmokTech

Sarah Douglas, Renewal Energy

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P R O C E E D I N G S

10:03 a.m.

WEDNESDAY, AUGUST 13, 2025

(Whereupon an introduction video is played and not
transcribed.)

CHAIR HOCHSCHILD: Good morning, friends. I'm
David Hochschild, Chair of the California Energy
Commission. Today is August 13th. I call this meeting to
order.

Joining me are Vice Chair Gunda, Commissioner
McAllister, and Commissioner Skinner is in the building,
will be here momentarily. (Sneezes.) Excuse me. And
Commissioner Gallardo is overseas on a delegation with a
number of other state agencies. We have a quorum.

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

(The Pledge of Allegiance is recited in unison.)

CHAIR HOCHSCHILD: Before we begin, I want to
note that items 5 and 6 on the agenda will not be heard
today. Those will be rescheduled.

We'll begin by taking public comment.

MS. BADIE: Thank you, Chair.

My name is Mona Badie. I'm with the Office of
the Public Advisor, Energy, Equity, and Tribal Affairs.

This first public comment period is the open

1 public comment period, so anyone can comment on any item on
2 the agenda. We do ask if you are here to comment on an
3 item with a dedicated public comment period, which would be
4 any voting action item, that you wait for that dedicated
5 public comment period to be announced to make comments at
6 that time. But right now, it could be for any for any non-
7 voting item in the Commission's jurisdiction.

8 All right, So first, we'll start with the folks
9 in the room. We're asking folks to use the QR code to sign
10 up to make a public comment. You can visit the Public
11 Advisor's table in the back of the room if you need
12 assistance with that or to scan the QR code. And if you're
13 joining by Zoom, you'll use the raise-hand feature, it
14 looks like an open palm on your screen, or star nine if
15 joining by phone. Those are the ways that you can let us
16 know you'd like to comment during this initial public
17 comment period.

18 And we have one commenter in the room. Claire
19 Zuma, if you'd like to approach the podium? And just a
20 reminder, it helps us if you can state and spell your name
21 for a current reporter. We do ask that comments be limited
22 to two minutes or less, and there will be a timer on the
23 screen. You may begin.

24 MS. ZUMA: Hi, my name is Claire Zuma,
25 C-L-A-I-R-E Z-U-M-A. And I'm here to please encourage fast

1 charging electric vehicle projects to install additional
2 outlets for electric bicycles and scooters.

3 California electric vehicle charging
4 infrastructure projects, such as that announced August 5th,
5 2025 on the California Energy Commission website, can aid
6 what seems to be a less represented California population
7 sector, e-bicyclists and e-scooters. E-bicycles and e-
8 scooters are electric vehicles, too. They are part of the
9 modern California economy.

10 E-bicycle/e-scooter infrastructure may attract
11 humans who attend particular venues, such as the Los
12 Angeles 2026 World Cup and the Summer 2028 Olympics. Can
13 one imagine come international athletes get stuck in Los
14 Angeles car and bus traffic with us? Hey, Amsterdam
15 bicycle commuters, check out our lack of bicycle
16 advancement. Some airlines allow transport of e-scooters
17 of a certain battery ranges, according to the internet.

18 I speak as someone who has not ridden an electric
19 bicycle or scooter, but who has completed many miles and
20 traveled on a mechanical bicycle. I notice many in the
21 Sacramento community utilizing electrical bicycles and
22 scooters. However, bicycle scooter charging choices appear
23 limited and potentially less friendly, requiring an
24 approachable building or property site with owner
25 permissions. Some long-distance bicyclists probably prefer

1 to pay for electrons -- the timer is stuck -- in order to
2 get from point A to point B and back, like Sacramento to
3 San Francisco and back, usually considered a reasonable day
4 trip, without having to plague any coffee shops, buy too
5 many coffees, bother a property owner's pocketbook, or
6 break their own budgets.

7 Please ask the CEC stakeholders -- ah, my
8 phone -- to design and implement bicycle and scooter
9 electric charging resources at the same places they're
10 installing electric vehicle fast charging stations, if at
11 all possible, or please help make a plan for this
12 population.

13 Thank you for listening.

14 By the way, the video seems to be overexposing
15 you guys and making you look older and redder.

16 CHAIR HOCHSCHILD: I look old enough as it is.
17 Thank you.

18 MS. ZUMA: It's a very backyard (indiscernible).

19 COMMISSIONER MCALLISTER: At least we're not
20 orange.

21 CHAIR HOCHSCHILD: Thank you. Appreciate that.

22 MS. BADIE: All right. And then let me just
23 check our in-room commenting queue.

24 All right, I'm going to transition over to Zoom.
25 I'm having a technical difficulty with my laptop, so I'm

1 going to switch over. And all right, so I'm going to open
2 the line for caller identified as call-in user two. And
3 when I open your line, if you can unmute on your end, and
4 please say and spell your name if you would like to share
5 that for our record. We are asking for comments to be two
6 minutes or less. There's going to be a timer on the
7 screen.

8 MR. UHLER: Good morning, Commissioners. This is
9 Steve Uhler, U-H-L-E-R. I called today to talk about the
10 MIDAS database, which has a chronic outage problem. I
11 would like to thank whoever got somebody to do something as
12 far as contacting me, because I have done -- I've asked --
13 I've presented this problem over the last two or three
14 years.

15 Basically, it doesn't -- it has an outage. It
16 seems to align with when UTC or Greenwich Mean Time changes
17 date. And in the case of SMUD and others, not just SMUD, I
18 get no data, no data, all nulls, a situation that the FEMA
19 says violates the rules. Something is wrong with the MIDAS
20 database.

21 I received an email from the Public Advisor
22 claiming that the staff had identified a way -- a
23 workaround. I will say workaround because to use it would
24 actually violate the regulations as far as what I'd have to
25 give, suggesting that I add a date range for the real time

1 data. I did that last night. It had absolutely no effect.

2 So please see that this is looked into. I've
3 heard of a situation of somebody wanting to go to maybe
4 another flavor of the month, something called NoSQL. That
5 is not the problem. There is no need to go through that.

6 I would also like to say that for Item 9,
7 speaking under my rights under the meeting laws, you should
8 table that until the MIDAS database is shown to be fully
9 functional and meets Business and Professional [sic] Code
10 for points of sales displays. MIDAS meets the definition
11 of that.

12 So please look into this because I have a lot of
13 things I want to do with it. But it does no good to not
14 have 24/7 availability.

15 And also reinstate the phone number that used to
16 be on the site so that I can call when this problem
17 happens, so I can talk to your technician so they can walk
18 through what's going on. So please take care of this.

19 Thank you.

20 MS. BADIE: Thank you for your comment.

21 And that concludes the comment period for Item 1.
22 Back to you, Chair.

23 CHAIR HOCHSCHILD: Okay. Thanks. Before we move
24 on to Item 3, agency announcements, I just want to take an
25 opportunity to introduce my Summer Fellow, Georgia Walker-

1 Keleher.

2 Why don't you come on up, Georgia, and just say a
3 little bit about yourself. She's a student at Stanford and
4 some of the stuff you're working on while you're here.

5 Yeah.

6 MS. WALKER-KELEHER: Hi, everyone. Yeah, my name
7 is Georgia Walker-Keleher, and I've had the opportunity to
8 have an awesome summer so far. I'm working on some grid
9 resilience projects and kind of getting to look at
10 quantifying the impact that the CEC is having in lots of
11 its grant funding areas.

12 Yeah, I'm entering my senior year, and I am just,
13 yeah, so grateful to have gotten an opportunity to work at
14 a place where everyone has such a shared sense of purpose.
15 And yeah, wherever I go, I will look for that in an
16 organization. Thank you.

17 CHAIR HOCHSCHILD: Thank you, Georgia.

18 So Item 3, agency announcements. Today, we're
19 seeking to approve almost \$31 million contributing to
20 California's economy.

21 I also wanted to announce that we'll be hosting
22 the 11th Annual EPIC Symposium on Tuesday, October 7th here
23 in this room, which we're in close coordination with
24 utilities and our other agency partners, really looking at
25 all the cutting-edge innovation in the cleantech space. I

1 believe the EPIC Program is the best clean energy research
2 and development program in the world, and I've seen most of
3 those programs around the globe. What we're doing here is
4 extraordinary.

5 So this is a free, open-to-the-public symposium,
6 and I encourage everyone interested in the space to come
7 join us. The information for how to sign up is on the
8 Energy Commission website at energy.ca.gov.

9 With that, let me just see if my colleagues have
10 any announcements they would like to make at the outset?

11 If not, let's turn to Item 3, consent calendar,
12 and I believe we have some statements from Commissioner
13 McAllister and the Vice Chair on this item.

14 Commissioner McAllister?

15 COMMISSIONER MCALLISTER: Yes, thanks, Chair.

16 On Item 3A, I'll recuse myself from any
17 discussion, consideration, or vote on the proposed
18 resolution approving an agreement for a one-year membership
19 for CEC to NASEO, that's the National Association of State
20 Energy Officials, as I currently serve on the Board of
21 Advisors for NASEO.

22 Additionally, on Item 3B, the proposed resolution
23 approving a contract with the Western Interstate Energy
24 Board to fund a membership for the state for years from
25 2025 to 2028, I will note for the record, pursuant to

1 Government Code section 1091.5(a)(9), that I serve as a
2 member of WIEB's Board and receive reimbursements for
3 travel expenses, meals, and other considerations associated
4 with my service on the Board.

5 This is considered a non-interest under conflicts
6 of interest laws because I'm not an employee of WIEB and I
7 have no direct financial interest in the membership
8 contract. That's the subject of this item. Nevertheless,
9 in the interest of procedural efficiency, I will not be
10 voting on any of the consent items and I will step out of
11 the room and ask to be notified after the vote is complete
12 for Item 3 so that I can return.

13 Thanks.

14 CHAIR HOCHSCHILD: Vice Chair?

15 VICE CHAIR GUNDA: Thank you, Chair.

16 Good morning, everybody. On Item 3B, proposed
17 resolution approving a contract with WIEB, the Western
18 Interstate Energy Board, to fund a membership for the state
19 for years 2025 and 2028, I note for the record, pursuant to
20 Government Code section 1091.5(a)(9), that I serve as the
21 Vice Chair on the Board of Advisors for the Western
22 Connection Regional Advisory Board, which is a standing
23 advisory committee to WIEB. I receive reimbursements for
24 travel expenses, meals, and other considerations associated
25 with my service on the Board.

1 This is considered a non-interest under conflicts
2 of interest laws because I'm not an employee of the WIEB
3 and I have no direct financial interest in the membership
4 contract that is subject to this item.

5 With this disclosure, I'm able to vote on this
6 item.

7 Thank you, Chair.

8 CHAIR HOCHSCHILD: Thank you.

9 At this time, we'll take public comment on Item
10 3.

11 MS. BADIE: Thank you, Chair.

12 The Commission welcomes public comment on Item 3
13 at this time. If you're in the room with us, we ask for
14 folks to use the QR code. You can sign up for any of the
15 items to make comment on any of the items using the QR code
16 at any time. And if you're on Zoom, you'll use the raise-
17 hand feature or star nine if joining by phone.

18 All right. I am not seeing any raised hands for
19 this item. Back to you, Chair.

20 CHAIR HOCHSCHILD: Unless there's any
21 Commissioner discussion, I'd welcome a motion on Item 3
22 from Commissioner Skinner.

23 COMMISSIONER SKINNER: So moved.

24 CHAIR HOCHSCHILD: Is there a second from the
25 Vice Chair?

1 VICE CHAIR GUNDA: Second.

2 CHAIR HOCHSCHILD: All in favor, say aye.

3 Commissioner Skinner?

4 COMMISSIONER SKINNER: Aye.

5 CHAIR HOCHSCHILD: Vice Chair Gunda?

6 VICE CHAIR GUNDA: Aye.

7 CHAIR HOCHSCHILD: And I vote aye as well, with
8 Commissioner McAllister abstaining. And you can inform him
9 to come on back.

10 With that, we'll move on to Item 4, information
11 item, Veloz National Education Campaign Update. I welcome
12 Josh Boone.

13 And I want to note, Josh was recently celebrated
14 for 15 years in this role and in its predecessor
15 organization, the Plug-in Vehicle Collaborative, and really
16 has been at the heart of California's efforts to bring
17 electric vehicles mainstream. Veloz, I think, has raised
18 over \$60 million, \$65 million, I think, altogether since
19 you've been running it. You've brought together utilities,
20 auto manufacturers, charging companies, Uber, Public
21 Utilities Commission, Air Resource Board, Energy
22 Commission, and others. And it really culminating in this
23 incredible campaign.

24 So here to present that is Josh. Over to you.

25 MR. BOONE: Yeah, thank you, Commissioner

1 Hochschild, and good morning, fellow Commissioners. My
2 name is Josh Boone. I'm the Executive Director of Veloz,
3 as the Commissioner said, and I'm here to talk about our
4 National EV Education Campaign.

5 I've included about 35 slides, so I'm going to
6 try not to make you dizzy. But the reason I did that is
7 because you can go back and look at all the embedded videos
8 and sound bites.

9 Next slide, please. Let's keep going.

10 Okay, so for those of you that are not familiar
11 with Veloz -- we can go to the next slide -- we are a
12 nonpartisan national 501(c)(3) nonprofit. Our vision is
13 that the future of transportation is electric and is for
14 all. And we are most publicly known for our education
15 campaign called Electric For All. And our mission is we
16 use our unique public-private partnership to really
17 accelerate zero-emission vehicle adoption through what we
18 call our three C's, communication, collaboration and
19 convening.

20 Next slide, please.

21 Veloz has been a part of many firsts in the state
22 of California. We are a Sacramento-based nonprofit with a
23 national purview. Let me just simply say that, you know,
24 back in 2010, 2012 when we started, we had EVs that had a
25 range of around 70 miles, you know, in total range. And

1 now we have EVs with over 300 miles of range. And we've
2 had a lot of milestones that you all have been part of, and
3 certainly the Energy Commission has been at the center of
4 many of those items.

5 Next slide, please.

6 So our theory of change, we really look at the
7 end goal of better earth, better for people, and better for
8 the economy. But if you look under that strategy column,
9 we really focus on three elements, and many of you do as
10 well, but consumer awareness and education, upfront cost of
11 electric vehicles, which is becoming increasingly
12 challenging, and then, of course, zero-emission vehicle
13 infrastructure, which the Energy Commission is known for.

14 Next slide.

15 Veloz is made up of about 40-plus organizations.
16 You can see organizations from many different EV sectors,
17 utilities, government, nonprofits, ride hailing, ride
18 share, autonomous zero-emission vehicles, national EV
19 charging companies, and many, many more. And we are trying
20 to grow this as we look to expand our programming across
21 the country.

22 Next slide.

23 Okay, so you can think of Veloz under kind of
24 these two brands. So Veloz, the nonprofit, has a lot of
25 different programs that we're dealing with. One of the

1 things that we work in close tandem with the Energy
2 Commission is our quarterly EV Market Report. And then our
3 consumer-facing brand is our Electric For All brand. And
4 you can see a kaleidoscope of programs that surround each
5 of those two brands, but they work in concert with one
6 another.

7 Next slide.

8 And what I'm really here to talk about is our
9 national campaign, which is called Electric For All: The
10 Way Forward is Electric.

11 Next slide.

12 And so when we think about behavior modification
13 and really bringing awareness around EVs and the many
14 benefits, we think about this kind of awareness funnel. So
15 we start at the top of the funnel and try to bring
16 inspiration and catch eyeballs around EVs and the many
17 benefits. We move them down the funnel, try to bring them
18 education tools through our online tools at
19 electricforall.org. And then we really encourage folks
20 from across the country to take action in the form of
21 exploring what makes and models are available, go do a ride
22 and drive, and then interact with vehicles and perhaps
23 consider buying or releasing an EV.

24 Next slide.

25 So I mentioned electricforall.org. So one of the

1 things that we've tried to do over the years is pull
2 together what is now a multimillion-dollar site. Think of
3 it as a hub for all things light-duty electric vehicles.
4 So you can put in your zip code, no matter where you are in
5 the country, and it will provide federal, state, and local
6 incentives. You can look up home charging information.
7 You can look up charging stations. You can learn about
8 Level 1, Level 2, DC fast charging. And there's a whole
9 wide variety of myth-busting resources there. So think
10 about that as the call to action for our national campaign.

11 Next slide.

12 So we've had four California-based campaigns over
13 the last seven, eight years. We started with a campaign
14 called Opposites Attract in 2018. And we did Kicking Gas
15 with the former Governor Arnold Schwarzenegger in 2019. In
16 2021, during COVID, we did 40 Million Reasons to Go
17 Electric. We brought Mark Ruffalo and a cadre of local
18 superheroes to life in that campaign. And then, most
19 recently, we completed Myths Busting Myths, where we used
20 mythical creatures to bust common myths around EVs.

21 So the question is, what's next, and what are we
22 doing now?

23 Next slide, please.

24 So as I mentioned, we are focused on a national
25 campaign called The Way Forward is Electric, following

1 under the Electric For All brand. And based on our
2 national database and access to Americans' kind of
3 attitudes and perceptions around EVs, we've come up with a
4 variety of messaging pillars, but the top ones are cost,
5 range, and charging and incentives, and a particular focus
6 on the federal tax credit over the next month and a half,
7 as we anticipate that credit going away at the end of
8 September.

9 So this campaign is funded in a large part
10 through a competitive grant solicitation from Electrify
11 America, bringing \$43.5 million into the budget. But then
12 we work with Edison, Uber, and others, and our automaker
13 partners are certainly providing in-kind support into the
14 creative assets.

15 So next slide.

16 Okay, so the campaign creative, we've been able
17 to hire a world-renowned producer and director called
18 Patrick Daughters, and he is known for kind of bringing CGI
19 to life, kind of real world. Think of it as kind of the
20 Barbie movie, if you've seen that, where there's real
21 people. So we're using real cars, set in grains, kind of a
22 fictitious but fun, bright background.

23 And so we're attacking those kind of core
24 messages across the top, savings on case, kind of short-
25 term savings, lower cost of ownership, long-term savings,

1 lower maintenance, daily range, longer ranger, and home
2 charging. And these are running across -- the creative
3 assets are running across all media.

4 Next slide.

5 So one of the fun elements of this campaign is we
6 have been able to work with Rick Swanson from Parks and
7 Rec, known as Nick Offerman, and he is the voiceover talent
8 in our video Creative Assets. And one of the things that's
9 really cool about Nick is we wrote him a quote, as you
10 often do, and he said, "Nope, I'm going to write my own
11 quote," and he pushed back this quote to us. And so he's a
12 real believer in trying to wean us off of fossil fuels.
13 And he's in the market, actually right now, looking for an
14 EV. So we're really excited to kind of see what EV he
15 chooses.

16 But the choice around Nick is that he's kind of a
17 middle American, no-nonsense, kind of neutral tone, and we
18 think kind of his deadpan humor brings a real creative
19 element to the video assets.

20 Next slide.

21 Okay, so our primary focus is generate purchase
22 intent. And then, of course, we want to inspire interest
23 in zero-emission vehicles, educate on the benefits of EVs,
24 and really encourage people to adopt them, whether new or
25 used.

1 Next slide.

2 We take a 360 campaign approach. So all things
3 are media these days, everywhere from paid, earned, owned.
4 Happy to talk to you about what channels we're in. But
5 there is an influencer campaign activating in about a week
6 and a half across the country, and then we've got a whole
7 community-based organization toolkit where I'll mention
8 that at the end, but anybody can use it. It's for free.
9 You can access the assets and promote them through your own
10 organization.

11 This campaign is kind of twofold. We're doing a
12 digital approach, so we're kind of meeting people where
13 they are online, and then we're meeting people where they
14 are in the parking lot by bringing an experiential
15 campaign, which will include ride-and-drives at the
16 beginning of the year.

17 Next slide.

18 Just quickly, this is a variety of the media that
19 we're purchasing and involved with. I want to go all the
20 way to the right and just say that as part of this
21 campaign, we were able to do a partnership with Simon Malls
22 and WS Development, which is also a mall owner, and they
23 are bringing several million dollars of free advertising
24 into the campaign. And because of our ability to do
25 national media buying, we're able to really drive

1 efficiency. So that bottom number is really important to
2 us. Essentially, we're getting about \$8 million of free
3 media because of how we're buying media in an efficient
4 way.

5 Next slide.

6 We had a really good launch with some good
7 headlines across the country, including a pickup in the *New*
8 *York Times*, as well as a variety of podcasts across the
9 country.

10 Next slide.

11 So I want to get into the fun part, which is I
12 want to show you some of the video creative assets, and
13 this is just one element. Think of the campaign as video
14 assets, and then digital display banners, podcasts, the
15 whole thing. But let's first of all show one of our cost
16 videos.

17 (Whereupon a video is played.)

18 "When you take away the spark plugs, the oil filter,
19 the belts, the alternator, and, oh, yeah, the gas
20 tank, you tend to take away other stuff, like
21 headaches.

22 "EVs have fewer parts, fewer repairs, and are less
23 expensive to drive. Discover EV savings at
24 electricforall.org."

25 Okay, let's go right into the next video.

1 (Whereupon a video is played.)

2 "Why do EVs cost less to own over the long run? Well,
3 for starters, you never have to buy gas again, and
4 there are fewer parts. And fewer repairs, making it
5 easy on your bank account.

6 "All long-term relationships should be this good.
7 With a lower cost to own, the way forward is electric.
8 Discover EV savings at electricforall.org."

9 Okay, next slide.

10 So this just gives you a sense of some of the
11 display banners that you'll see. Like if you go on CNN.com
12 or your favorite news outlet, you might see this banner ad
13 pop up on the left. We've gone to the trouble of animating
14 it, so that's kind of fun. And then in the middle, we're
15 working with a variety of podcasters to actually advertise
16 on podcasts. I don't know if you can play the one.

17 (Whereupon a video is played.)

18 "Imagine never buying gas again. EVs are easy to
19 charge as your phone and perfect for everyday life.

20 "Now, most Americans only drive about 40 miles a day,
21 and most EVs go 200 to 400 miles on a full charge.
22 That's plenty. And with fewer parts, that means fewer
23 repairs and fewer surprises at the mechanic. Anyone
24 who has made the switch says the same thing, once you
25 go electric, you don't look back.

1 "The way forward is electric. Learn more at
2 electricforall.org."

3 And then we get the fun opportunity in social
4 media to do things like save up to \$2,000 a year, ghost
5 your gas station. Those all can be optimized. So every
6 three to four weeks, we're looking at the data, and we're
7 able to kind of tweak the messaging that the audience
8 targets. So it's a really important aspect.

9 Next slide. I know we're running close on time.
10 Go ahead.

11 (Whereupon a video is played.)

12 "How far can an EV take you on one charge? It can
13 take you to work, to school, to soccer practice, to
14 the grocery store, to the post office, and you'll
15 still have enough charge to visit your in-laws in the
16 next county. But they don't need to know that.

17 "The way forward is electric. Explore EVs with the
18 range you need at electricforall.org."

19 Okay, next slide.

20 I think we showed some digital banners already,
21 but we are also buying in the out-of-home digital billboard
22 market. So that top image is an example of some of the
23 billboards we currently have running across the country in
24 different DMAs.

25 Next slide. Go ahead.

1 Home charging.

2 (Whereupon a video is played.)

3 "Keeping an EV fully charged is as easy as charging
4 your phone, only the cord is much harder to lose.

5 Charge at night right from home.

6 "The way forward is electric. Explore EVs that fit
7 your life."

8 I think it's replaying it, yeah. Okay. Let's
9 keep going.

10 And then one of the things I wanted to pause on
11 briefly is, I think most of us know, the federal tax credit
12 is going away. So we have pulled about \$2.3 million from
13 our 2026 budget forward to do basically a media blitz over
14 the next six weeks to really promote the opportunity to
15 take advantage of that \$7,500 tax credit. So that's what
16 you're seeing here is an example of that.

17 Next slide.

18 And then finally, in the interest of time, I'll
19 be short, but as I mentioned, we developed an online
20 toolkit where you can access all of these creative
21 elements, whether they're social media creative or other
22 digital display banners, and use them. You can also take
23 advantage of the website.

24 And so if we can just click through the next few
25 slides, you can get kind of a flyover of the toolkit. So

1 reach out to me and we'll give you access if you're
2 interested. Keep going.

3 The campaign is also in Spanish.

4 Yeah, keep going. Keep going.

5 And then, of course, how can you support the
6 campaign? Share the assets. Reach out to me. Advocate
7 for the campaign. And one of our goals is that the current
8 roughly \$45 million budget will get us through next summer.
9 So we're really looking to try to raise another \$45 million
10 to \$50 million so that we can keep the campaign going for a
11 second and third year, really to get us through midterms in
12 the current administration.

13 Next slide.

14 And then I'm happy to answer any questions, but
15 thank you for the opportunity to present the campaign.

16 CHAIR HOCHSCHILD: Yeah, Josh, thank you so much.
17 Just phenomenal work.

18 And I would highlight the federal tax credit ends
19 at the end of September, so I really appreciate you surging
20 the outreach.

21 Also, just that, you know, we're in a much better
22 place than we were a few years ago in terms of the models
23 that are available. And the median range of EVs has been
24 increasing. So it's now, you know, 282 miles is the
25 average range for vehicles sold. And of course, thanks to

1 the good work of my colleague Commissioner Skinner and her
2 predecessor, Patty Monahan, we now have more electric
3 vehicle charge plugs and gasoline nozzles in California and
4 a lot more coming. So it's never been easier to make the
5 switch.

6 With that, let me just open up if there's any
7 questions or comments for Josh or my colleagues.

8 Yeah, Vice Chair?

9 VICE CHAIR GUNDA: Thank you, Chair.

10 I just wanted to extend my thanks, Josh. Just,
11 you know, first of all, thank you for the presentation.
12 Want to just note your, you know, personal leadership at
13 Veloz, but the entire team. I think there is a tangible
14 and significant impact that Veloz has brought to the
15 overall electrification of the transportation sector. So I
16 just want to say thank you in kind of helping us meet our
17 climate goals and, you know, that of further emissions. So
18 thank you so much for all the work.

19 MR. BOONE: Yeah. Thank you. I would just say
20 that in a time where we're all experiencing a lot of policy
21 rollbacks and pushback, one of the policy levers we have is
22 strategic communications. And one of the levers we have is
23 to talk to Americans about the benefits of EVs. And we
24 know from the data that whether red, purple or blue, folks
25 are really interested in electric vehicles. The problem is

1 that there's so much misinformation and disinformation, and
2 the number of dollars being put in the anti-campaign is
3 real-real, and it's very high. So this gives us an
4 opportunity to really work to combat that.

5 So we at Veloz like to think of ourselves as a
6 large tenant. So come partner with us and help us take
7 this effort further.

8 Thank you.

9 CHAIR HOCHSCHILD: Hold on.

10 Commissioner McAllister?

11 COMMISSIONER MCALLISTER: Yeah. Great. Thanks a
12 lot, really, for the presentation and all the effort over
13 the years.

14 And I want to just give kudos to Chair Hochschild
15 for leadership in the foundation and management of Veloz
16 and fundraising, all the important stuff you talked about.
17 You know, it starts with leadership. And just really want
18 to appreciate you, Chair, and, as well, you, Josh.

19 So I want to just make a couple of points, just,
20 you know, this reminds me a lot of the early days of energy
21 efficiency when, you know, it's just a common sense, very
22 nonpartisan, presumably nonpartisan. You know, it's all
23 about pocketbook issues and practical navigation of a
24 complicated world. And energy efficiency just makes sense;
25 right? It makes all of our other problems smaller. It has

1 negative costs. You know, we've shown over and over again
2 that it comes with actually improved product performance
3 and more features in addition to lower energy consumption.
4 So I think people, as they experience electric vehicles
5 and, you know, induction cooking and other technologies, I
6 think electric vehicles is really the number one object
7 lesson of how positive this transition can be.

8 And it also, I think, along with data centers, is
9 pushing us to understand energy consumption, electricity
10 consumption, and manage it more proactively. And so I
11 think that's also a good thing. You know, necessity is the
12 mother of invention. So really, I think we're going to --
13 we are learning a lot from this transition. And I think,
14 you know, I sort of referred to the origins of energy
15 efficiency, which precede the EV revolution. But, you
16 know, I think we're also taking cues from your experience
17 and all of your efforts to manage the heat pump transition,
18 which is sort of lagging the EV adoption curve.

19 So really just so much synergy here and, you
20 know, unfettered good things. So I really appreciate all
21 your efforts to help move that model out and do all the
22 strategic communications and behavioral approaches really
23 valuable, so thank you.

24 CHAIR HOCHSCHILD: Well, just as we close, I
25 wanted to say, I think one thing that's really unique about

1 Veloz, there's no organization like it in the United States
2 that has brought together such a diverse set of
3 stakeholders, having, you know, utilities and Uber and
4 charging companies, and auto manufacturers and state
5 agencies and other, you know, key groups to come together
6 to speak with one voice, one clear, loud voice.

7 And, you know, we meet three times a year and I
8 just always find the meetings really fruitful. And I just
9 want to thank you for keeping it so organized and, you
10 know, well thought out. And it's an amazing tribute that
11 Veloz just won this \$43 million grant. And this campaign
12 you described is a national campaign, so \$12 million of
13 that's going to California. The rest is going out across
14 the country. So thank you, Josh. I appreciate that.

15 All right, with that, we'll turn next to Item 7
16 because we're going to skip on Items 5 and 6, so California
17 Refinery Maintenance and Reporting Guidelines. Having
18 touched on EVs, we'll return to petroleum.

19 So, Jeremy, welcome.

20 MR. SMITH: Thank you. Yes. Good morning,
21 Chair, Vice Chair, and Commissioners. I'm Jeremy Smith, a
22 Deputy Director in the Energy Assessments Division. I'll
23 be presenting two items for your consideration and approval
24 this morning.

25 But before I do that, I just want to address the

1 removal of Items 5 and 6 from the agenda today, that's the
2 staff's recommendation to postpone implementation of the
3 max margin and penalty, as well as the recommendation not
4 to govern the timing of refinery maintenance events. You
5 know, these recommendations come from, you know, the staff
6 working tirelessly on these issues and are backed by a lot
7 of research and collaboration with stakeholders. And so we
8 do feel strongly that these are the right actions.

9 However, given the timing of this, we felt like
10 it was best to have more time for public input and
11 engagement in these issues and get that feedback. This is
12 a really important decision for the Commission to consider
13 and so I felt that was the best course of action at this
14 time.

15 I will also mention that because we do feel
16 strongly that these are the right steps to take, that we do
17 plan to bring these items up for consideration at the next
18 business meeting.

19 So with that, the first item I'm going to present
20 this morning is the second edition of the California
21 Refinery Maintenance Reporting Guidelines.

22 California refiners are required to report to the
23 Energy Commission details of planned and unplanned
24 maintenance events so we can understand the impact that
25 these outages have on petroleum supplies. These updated

1 guidelines enhance transparency, improve our ability to
2 evaluate supply conditions, and will provide critical data
3 to inform consideration of the CEC's consumer protection
4 tools granted under SB X1-2 and AB X2-1.

5 Next slide, please.

6 These updates provide three key benefits to
7 Californians.

8 First, they provide the CEC with earlier warning
9 of potential supply disruptions by providing more detail on
10 planned and unplanned maintenance and refiners' resupply
11 actions.

12 Second, they provide greater transparency during
13 periods of reduced refining capacity, which is when price
14 volatility risk is highest.

15 And third, they create a stronger foundation for
16 any future consumer protection actions by ensuring we have
17 accurate standardized data to inform policy considerations.

18 Next slide, please.

19 The Petroleum Industry Information Reporting Act
20 of 1980, or PIRA for short, requires petroleum industry
21 companies to submit various data to the CEC. Our analysis
22 of these data is an important part of the Energy
23 Commission's role to understand the operations of
24 California's petroleum industry and respond to possible
25 supply disruptions. These data also serve as the

1 foundation for policymaking as we consider how to best
2 utilize the consumer protection tools granted to the CEC
3 under SB X1-2 and AB X2-1.

4 The CEC collects four main categories of
5 petroleum market data, including refinery costs and
6 profits, market trends, refinery maintenance, and other
7 miscellaneous data. Today's proposal focuses on the third
8 category, refinery maintenance reporting, and refines it to
9 better track how maintenance events affect supply and what
10 actions refiners are planning to offset for lost
11 production.

12 Next slide, please.

13 Under SB X1-2, the Energy Commission has broad
14 authority to collect various petroleum industry data and
15 adopt rules. Refinery maintenance reporting is treated
16 differently from most other requirements as it's exempt
17 from the Administrative Procedure Act. This means we can
18 update these reporting guidelines through an adopted
19 guidebook rather than a formal rulemaking process.

20 Next slide, please.

21 Second edition guidelines include several
22 important updates. First, expanded planned and unplanned
23 maintenance reports with new submission IDs, process unit
24 IDs, and other fields will improve event tracking. Second,
25 updated PIRA data submission portal protocols allow for

1 better tracking of revisions, manage resubmissions, and
2 standardize file formats. These changes will make it
3 easier to connect maintenance events to supply impacts in
4 our analysis.

5 Next slide, please.

6 The most significant addition is the Refinery
7 Maintenance Turnaround Resupply Plan. This supplemental
8 requirement submitted with the Planned Maintenance Report
9 documents how a refinery intends to replace lost production
10 during a maintenance event. This report includes
11 projections of inventory builds, in-state and out-of-state
12 purchases, foreign imports, and reductions in non-
13 contracted sales if needed. The Resupply Plan is due at
14 least 30 days before a planned maintenance or turnaround
15 aligning with typical industry planning cycles.

16 Please note this update does not require any
17 specific resupply action. It simply requires a refiner to
18 notify the CEC of their anticipated steps, if any, to
19 offset for their lost production.

20 Next slide, please.

21 These guidelines are statutorily exempt from
22 CEQA, and staff recommend that you approve the California
23 refinery maintenance guidelines second edition today. If
24 approved, the guidelines will take effect immediately. The
25 guidebook will be published tomorrow. Obligated parties

1 will be notified with updated instructions and reporting
2 with the revised forms will begin within seven days. This
3 ensures California has a stronger, more transparent
4 reporting foundation for evaluating refiner maintenance
5 impacts and resupply actions critical to informing future
6 supply stabilization efforts.

7 That concludes my presentation. Brittany
8 Aldredge (phonetic) from our Chief Counsel's Office and I
9 are available to respond to your questions.

10 CHAIR HOCHSCHILD: Thank you so much. And I just
11 want to acknowledge, again, the amazing work. I know it's
12 been a really heavy lift for you, your whole team, your
13 colleagues, Vice Chair, just incredible, so thank you for
14 all that public service.

15 With that, let's go to public comment on Item 7.

16 MS. BADIE: Thank you, Chair. The Commissioner
17 welcomes public comment on Item 7 at this time. If you're
18 in the room with us, we're asking folks to visit the Public
19 Advisors table and use the QR code. That will let us know
20 that you'd like to comment. And if you're joining on zoom,
21 you'll use the raise-hand feature on your screen, it looks
22 like an open palm or star nine if joining by phone. And
23 we're going to start in the room before we transition over
24 to zoom.

25 All right, so we've got a Tanya DeRivi. Tanya,

1 if you could please approach the podium? And just a
2 reminder, we're asking for comments to be two minutes or
3 less, and it does help if you can state and spell your name
4 for our record.

5 MS. DERIVI: Okay. Thank you. Tanya DeRivi,
6 T-A-N-Y-A, D, like David, -E, capital -R-I-V, like Victor,
7 -I, with the Western states patrolling association.

8 WSPA appreciates the CECs need to better
9 understand how both planned and unplanned refinery
10 maintenance activities could impact transportation fuels
11 and retail prices for consumers, including by submitting
12 plans for refinery resupply. We are supportive of the
13 adjustment to require these resupply plans for 30 days
14 before any planned event. Longer timeframes would likely
15 have been impractical to assess and demonstrate given
16 reliance upon a global commodities market with long
17 transport times over ocean waters in the case of marine
18 transport or purchases of in-state products.

19 While it is more probable to offer an estimate of
20 the planned product volume and desired delivery mode,
21 reporters may not know who the seller and locations will
22 be. We ask the CEC to allow a placeholder solution for in-
23 state purchases for all fields, except product volume and
24 desired delivery mode.

25 We are also supportive of changes that address

1 our prior concern with any proposed and potentially onerous
2 resupply regulatory requirement that could potentially
3 delay compliance when seeking additional approvals as the
4 CEC considers future efforts to refine these guidelines or
5 streamline extensive data reporting requirements. We would
6 encourage staff to consider the following.

7 One, CEC will need to clarify the threshold for
8 these submissions. For example, if a turnaround on a unit
9 does not affect production, EG a utility plant, it is
10 unclear if there's a reporting requirement. Two, limiting
11 reporting to impactful events only as such as those
12 affecting 20 percent or more of gasoline production. And
13 three, where resupply reporting is duplicative, the CEC
14 should streamline data inputs already provided in the
15 Planned Refinery Maintenance Report, the California Daily
16 Spot Contract Report for Trades and Settlements, and for
17 daily marine imports.

18 WSPA would like to thank the CEC for their
19 efforts to engage with industry on a more workable
20 reporting framework to better understand transportation
21 fuel supply issues for consumers.

22 Thank you.

23 MS. BADIE: Thank you.

24 And I am not seeing any other commenters for Item
25 7 in the room or on Zoom, so back to you Chair. Thank you

1 so much. Let's go to Commissioner discussions, starting
2 with the Vice Chair.

3 VICE CHAIR GUNDA: Thank you. Thank you, Chair.
4 Thank you, Tanya for the comments.

5 Just want to make sure, does the -- Jeremy, do
6 you have any desk pumps for the comment?

7 MR. SMITH: Sure. Yeah. First, I do want to
8 acknowledge that, you know, we've been working with
9 industry closely on this for several months. We posted an
10 original version of these reporting guidelines back in
11 March. We had a workshop on them and, you know, we were
12 considering, considering a lot of actions back there in the
13 early spring. And, you know, we took some of that input
14 from that and ultimately arrived at the version that we
15 have today, as Tanya pointed out, you know, moving the
16 reporting deadline from, you know, much earlier when
17 refiners might not have as much information to 30 days.
18 And so we were aware of, you know, the situations and the
19 lack of information at different stages of, of resupply
20 planning. And so that was really helpful feedback.

21 I'll also say that, acknowledge the fact that
22 there may be duplicative information in some of the
23 reports. We're taking a lot of steps, as we've talked, I
24 know, in various business meetings before about building
25 data submission portals that will allow for a much easier

1 process for reporting entities to upload the information
2 and get confirmation that it's been received and validated.
3 That unlocks the potential to go back through and look at
4 all the data that we're collecting. It will connect it all
5 and allow us a greater, you know, opportunity to go through
6 and refine it and reduce any duplicative reporting.

7 So this is certainly something that we
8 understand, appreciate the burden there and are looking for
9 ways to reduce that in the near future.

10 VICE CHAIR GUNDA: Jeremy, just another quick
11 question just for the record. Could you just provide the
12 value proposition of this data? I mean, kind of just
13 recognizing that part of our job is to think through how
14 can we use data to proactively plan as we move into the
15 summer, I just wanted to note for the Commission, you know,
16 the value proposition from the staff's point of view on
17 this data set.

18 MR. SMITH: Sure. Absolutely. So I put it into
19 two key buckets. First is just the refinements to the
20 reporting that allows us to better track really what's
21 going on, giving things, you know, unit IDs and stuff like
22 that. So if a unit goes down once, is that the same one
23 that goes down again? We'll be able to track things like
24 that. Just give us better situational awareness of what's
25 going on at the events. And just, you know, general

1 protocols that will help our day-to-day analysis of this
2 stuff as oftentimes it's time critical to process this
3 information. And so there's a lot of things there to help
4 us with that.

5 The second bucket is on, you know, collecting
6 more information on how refiners currently resupply; right?
7 So that really helps us understand as we consider the
8 merits of resupply rules, where is the baseline now? What
9 are the actions that are taken now? And what are we really
10 asking for in terms of a change? Are we going from zero
11 to, you know, a lot, or are we going from, you know, 70, 80
12 percent backfill already to some higher amount? And so it
13 just really helps us collect more information and allow
14 that process to be data-driven based on what conditions are
15 today.

16 VICE CHAIR GUNDA: Great. Thanks, Jeremy.

17 Chair, I have a few comments and I'll pass it
18 back.

19 So I just wanted to say, you know, I want to
20 start with gratitude. There is a lot of staff that work on
21 these issues. As Jeremy pointed out, it's been, you know,
22 a marathon, but also a sprint. So it's been -- for two and
23 a half years the staff have been just really, you know,
24 running to complete so many of these deadlines.

25 I want to also note that, you know, oftentimes we

1 don't have the resources needed to do these things. We are
2 not fully resourced on these elements. So I just wanted
3 to, you know, take a moment and sincerely thank the staff
4 for their dedication in making all these things happen on
5 time.

6 You know, specifically, I think the teams that we
7 work with on a day-to-day basis, want to start with the Leg
8 Team, Sarah, Kourtney, amazing work. You know, they're in
9 the background, you know, not visible every day, but the
10 amount of work that they are having to work, given the
11 legislative interest on this issue.

12 Coms Team, I see Niki and Sandy, you know, just
13 making sure that we say what we actually want to say and
14 not say something else. So Niki, thank you so much for all
15 the help.

16 Chief Counsel's Office, you know, with Chad,
17 Lisa, more recently, Sanjay has been a part of it and then
18 welcome to Brittany to the team. Thank you so much for all
19 the incredible work.

20 EAD staff, you know, obviously Jeremy, I cannot
21 thank enough for doing multiple jobs. You know, you we're
22 hired for something else but, you know, thanks to your
23 expertise, you've been pulled into the petroleum stuff.
24 Thank you so much for your work, Aleecia and the
25 leadership, but also all the staff that we might not name

1 person by person here, but the incredible work that they do
2 and the Executive Office. Drew has been an incredible
3 partner on this issue and just want to say a big thanks.

4 And I want to close by just our office, Lisa and Aria,
5 the amount of time they put in this work is just, just
6 incredible.

7 So thanks to every one of you. I was going to do
8 that thank you at the top of the four items, you know,
9 we're going to have today.

10 But I want to comment briefly to, to Jeremy's
11 point, provide a little bit of context, the reason for the
12 actions five, six, seven, and eight today, we're really
13 kind of building upon the letter that our office sent to
14 the governor and which Theresa presented the last business
15 meeting, just recognizing the mid-transition phase of the,
16 of the entire ecosystem. And really, you know, just, you
17 know, what Josh has presented earlier, we just need to
18 continue to double down on our investments on the EV side
19 and the clean energy side, as well as provide the necessary
20 confidence for the industry to continue to make the
21 investments to be here as long as we need on the systems
22 that we are trying to transition away from.

23 So given that, we've identified a number of
24 different strategies in the letter, including providing a
25 pause on the penalty, the gross margin penalty, looking at,

1 you know, opening the resupply and minimum inventory
2 proceeding in a way that, you know, it gives us a time to
3 be deliberative, again, some of the reporting guidelines.

4 So when we take the totality of the work, I think
5 it's really important, as Jeremy noted, that we have the
6 necessary time to consult with all the stakeholders,
7 especially the margin of penalty. I think as an office, we
8 firmly believe that it needs to be paused, but the length
9 of time and the context of framing that that is important
10 to be finalized, you know, deliberately. So thank you,
11 Jeremy, for, for framing that.

12 And finally, we also want to recognize Kelsie
13 Goff from the team who leads the work that Jeremy presented
14 today at staff level. To Jeremy's points, the guidelines
15 will provide additional data transparency and really allow,
16 you know, staff to be able to provide better insights and
17 have an idea on what the resupply plans are and how we are
18 situated going into a summer and provide a summer outlook
19 much more confidently.

20 I also want to just, you know, close by saying
21 thanks to, you know, Tanya, who we see regularly from WSPA.
22 Thanks to the industry's participation, Chair, on this
23 issue. We have had a number of conversations and I wanted
24 to thank them for being collaborative and trying to pursue
25 solutions.

1 Also DPMO, we do have the DPMO, director Milder,
2 whose, you know, expertise and experience provides us an
3 ability to lean on. So a big thanks to them.

4 And the broad stakeholder group. We have labor,
5 who's really interested in these issues, environmental
6 justice and vitals, local governments, academia. So we
7 have a very broad interest in these issues. And I just
8 want to say a big thanks to our staff for keeping those
9 conversations flowing so we can keep these moving forward
10 in the most productive way.

11 So when we're ready, we'll move the item, but
12 really thankful to everybody.

13 CHAIR HOCHSCHILD: Well, I just want to say,
14 thunderous agreement to all the thank yous that you gave,
15 but really it starts at the top. And you are leading the
16 state's efforts and the Energy Commission's efforts here.
17 And this issue is fraught, it's contested, it's complex,
18 and it's multifaceted, and I just feel incredibly grateful
19 every day for your calm and thoughtful and strategic and
20 inclusive way of navigating through a big, big challenge
21 for the state. So my gratitude again to you, Vice Chair.

22 Are there other comments, Commissioner
23 McAllister?

24 COMMISSIONER MCALLISTER: I just wanted to double
25 down on that thanks to the Vice Chair, your efforts. And

1 just, it's a very divisive issue. And I think, you know,
2 having your approach to really build bridges and nurture
3 relationships is key to getting towards a really grounded
4 workable solution. And thanks to all the stakeholders for
5 coming to the table and really responding to that approach.

6 And, you know, getting off of fossil fuels is not
7 going to be easy. And this is kind of the tip of the
8 spear. So I think, you know, the experience in the model,
9 the template that you're developing here is going to be
10 useful down the road as well, so just really appreciate. I
11 want to sort of put this in historical perspective, because
12 I think this is really important in a very profound way.

13 So thanks for all of your leadership.

14 CHAIR HOCHSCHILD: Commissioner Skinner?

15 COMMISSIONER SKINNER: Thank you. I think we all
16 recognize that transitions of any support -- any sort,
17 whether they're transitions in our personal lives or
18 transitions societally as, as this one is, yeah, they
19 don't -- they're complicated. And you can't always
20 anticipate every element of what will need to be addressed
21 in such a transition.

22 So the state, obviously, has been, for decades
23 now, setting really clear goals for clean air, for climate
24 protection, for public health, for just environmental
25 quality improvements overall, and for economic development.

1 And those various goals are causing changes in all kinds of
2 our day-to-day activities. I mean, in a simple level, we
3 can think about the transition from the incandescent light
4 bulb until now, what we all use are LEDs. That one,
5 perhaps, was not quite as fraught or complicated as this
6 one --

7 CHAIR HOCHSCHILD: It was pretty --

8 COMMISSIONER SKINNER: -- (indiscernible).

9 CHAIR HOCHSCHILD: It was pretty fraught --

10 COMMISSIONER SKINNER: And that's --

11 CHAIR HOCHSCHILD: -- to litigate them and --

12 COMMISSIONER SKINNER: If you were in the middle
13 of it, right. But it, but let us say, it was a little bit
14 narrower.

15 Anyway, but point being that when -- the
16 different times that the state has adopted various goals or
17 even legislation that supports these transition, it is not
18 that the state has been, you know, like, oh, we're just
19 going to plow ahead. No, it's that you, until you're
20 underway, that's when you really confront what other
21 adjustments you need to make in order to balance that
22 transition so that you come out at the end of it in a way
23 that does not create economic harm but still achieves the
24 good economic public health, climate protection, and air
25 quality and greenhouse -- I mean, that was already climate

1 protection -- air quality goals that you're trying to
2 achieve. And that's what we're in the middle of.

3 And so, you know, who would have known that CEC
4 was going to end up playing such a big role in it, but we
5 are. And I also want to give that thanks to the staff
6 Who -- you know, this has been a lot of work. We were --
7 sometimes these things end up being concentrated. You
8 know, we might have said, okay, wouldn't have been nice if
9 we had a longer time to have figured out all of this on
10 ramp and off ramp, but hey, we responded and we responded
11 deliberately, deliberatively, cooperatively, and
12 collaboratively, and I'm really impressed.

13 And I want to thank staff. I really want to
14 thank our Vice Chair. And I look forward not only to our
15 actions on this, but to the legislature also acting in a
16 way that is harmonized with what we're doing so that we can
17 do this transition in the way. And we're talking to
18 transition off of refined fuels that we can do this
19 transition in a way that works for everyone.

20 So really appreciate it and thank you.

21 CHAIR HOCHSCHILD: Thank you, Commissioner.

22 Vice Chair?

23 VICE CHAIR GUNDA: Yeah, Chair, was going to do
24 this at the end, but, you know, Senator, former Senator
25 Skinner and Commissioner Skinner, you know, the SB X1-2 was

1 something that you led. And like many other things, we
2 today implemented that at CEC, including a lot of work on
3 the demand side. So I just wanted to say thank you for
4 your leadership on giving the necessary tools, the
5 transparency tools that really put us in such a good place
6 to more proactively plan to your point rather than reacting
7 in crisis.

8 So, again, I think we are really well served with
9 this information and all the work we are doing to
10 understand problem statement better and device strategies
11 that best address the problem statement. So thank you for
12 your leadership.

13 CHAIR HOCHSCHILD: With that, I'd welcome --

14 COMMISSIONER SKINNER: Sorry. And as a final,
15 and we are not -- this is no means a backtracking from
16 those goals. It is an adjustment, not even an adjustment,
17 it is approaching the achieving of the goals in the way
18 that does them with the most benefits to everyone.

19 CHAIR HOCHSCHILD: With that, I welcome a motion
20 on Item 7 from the Vice Chair.

21 VICE CHAIR GUNDA: Yeah, move Item 7.

22 CHAIR HOCHSCHILD: Is there a second from
23 Commissioner McAllister?

24 COMMISSIONER MCALLISTER: Second.

25 CHAIR HOCHSCHILD: All in favor, say aye.

1 Vice Chair Gunda?

2 VICE CHAIR GUNDA: Aye.

3 CHAIR HOCHSCHILD: Commissioner McAllister?

4 COMMISSIONER MCALLISTER: Aye.

5 CHAIR HOCHSCHILD: Commissioner Skinner?

6 COMMISSIONER SKINNER: Aye.

7 CHAIR HOCHSCHILD: And I vote as well. Item 7
8 passes four to zero.

9 We'll turn now to Item 8, Order Instituting
10 Informational Proceeding, Petroleum Supply Stabilization.

11 Welcome back to Jeremy.

12 MR. SMITH: There we go. All right. Thank you,
13 Chair. The next item I am presenting for your
14 consideration is staff's recommendation to open the
15 petroleum supply stabilization informational proceeding to
16 explore strategies for maintaining a safe, reliable fuel
17 supply during California's transition away from petroleum
18 fuels. This proceeding will focus on minimum inventory
19 requirements and refinery resupply planning as authorized
20 under Assembly Bill X1-2 -- or 2-1, but we'll also consider
21 other supply stabilization tools.

22 Next slide, please.

23 Here are the benefits of opening this
24 informational proceeding.

25 First, it will create a public forum to gather

1 data, hear directly from stakeholders and build a clear and
2 accessible public record. This ensures all perspectives
3 are captured before any decisions are made.

4 Second, it gives us the opportunity to thoroughly
5 research the potential benefits and costs of minimum
6 inventory requirements, resupply planning, and other supply
7 stabilization tools before taking any regulatory action.
8 This is critical to fulfilling our responsibility to
9 protect consumers.

10 And third, it positions us to develop data driven
11 strategies aimed at stabilizing supply and reducing the
12 severity of gasoline price spikes so that Californians are
13 protected from unnecessary volatility in the years ahead.

14 Next slide, please.

15 This chart illustrates the conceptual phases of
16 California's transportation fuels transition. Along the
17 top, you can see these four phases, pre, early, mid, and
18 late transition.

19 We've entered what has been described by
20 researchers, Drs. Emily Grubert and Sara Hastings-Simon as
21 the mid transition during which the demand for petroleum
22 based fuels while falling remains significant while clean
23 alternatives continue to scale up. This is illustrated in
24 this chart, which shows California's gasoline demand
25 building through the first two phases, but beginning to

1 decline now in the mid transition. Increased adoption of
2 zero-emission vehicles will propel us into the late
3 transition phase.

4 The challenge is that our in-state refining
5 capacity is declining faster than demand. This leaves the
6 market more fragile or sensitive to both planned and
7 unplanned outages and more dependent on imports that take
8 weeks to arrive. Proactive management is critical to
9 support fuel reliability and economic stability, protect
10 consumers, communities, workers and the environment.
11 That's why stabilizing our near-term supply during the mid
12 transition is so important and why we're proposing to study
13 strategies like minimum inventories and refinery resupply
14 planning in this proceeding.

15 Next slide.

16 In 2024, the legislature passed AB X2-1 expanding
17 the Energy Commission's consumer protection tools. The law
18 authorizes the CEC to adopt minimum inventory requirements
19 for refined transportation of fuels and resupply planning
20 requirements before a refinery begins maintenance or
21 turnaround events.

22 But there are important conditions. Any such
23 regulations must protect the health and safety of
24 employees, local communities and the public, and they may
25 only be adopted if the likely benefits to consumers

1 outweigh the potential costs. These safeguards make clear
2 that the legislature intended for us to proceed carefully
3 and deliberately.

4 Next slide, please.

5 An informational proceeding is the best way to
6 start the structured process of fully evaluating the supply
7 stabilization tools. It allows us to build a comprehensive
8 public record before any rulemaking begins, engage
9 stakeholders in a structured and transparent process,
10 examine both the potential benefits and unintended
11 consequences of inventory and resupply requirements, and
12 ensure we have the necessary data and analysis to make the
13 best decisions for Californians.

14 Next slide.

15 More specifically, the informational proceeding
16 will focus, as I said, on two primary topics.

17 First, we'll investigate whether requiring
18 refiners to hold a minimum volume of finished
19 transportation fuels, blending components or feedstocks
20 could reduce price volatility and protect consumers during
21 supply disruptions. This additional slack in the system
22 could be effective at reducing the impact of unplanned
23 outages. We will look at how such requirements might work,
24 the infrastructure needed, and the possible costs and
25 risks.

1 Second, we'll research whether requiring refiners
2 to present a resupply plan before commencing plan
3 maintenance could help avoid price spikes and supply
4 disruptions. This will involve examining operational
5 realities, safety considerations, and how such requirements
6 could be implemented without disrupting those necessary
7 maintenance activities. And of course we'll be open to
8 investigate other supply stabilization strategies that
9 emerge from stakeholder input.

10 Next slide.

11 This will be a transparent, inclusive, and data-
12 driven process. We will hold public workshops and hearings
13 with opportunities for written comments and stakeholder
14 presentations. We'll conduct outreach to consumer
15 advocates, environmental justice and environmental groups,
16 labor organizations, industry representatives, academic
17 experts, and community stakeholders. We'll collect and
18 analyze both public and confidential data on refinery
19 operations, inventories, and supply disruptions, consistent
20 with our existing data gathering authority under PIRA, SB
21 X1-2, and AB X2-1. We'll also coordinate closely with
22 other agencies, including the Labor and Workforce
23 Development Agency.

24 Next slide, please.

25 At the conclusion of this proceeding, we expect

1 to have a clearer understanding of the feasibility and
2 value of minimum inventory and resupply planning
3 requirements, a transparent record of benefits, costs, and
4 potential unintended consequences, identification of the
5 conditions under which these tools would be the most
6 effective, and evidence-based recommendations for the
7 Commission's consideration in any future regulatory action.

8 Next slide. I should have one. There we go.

9 In closing, staff recommends that the Commission
10 approve the Order Instituting Informational Proceeding on
11 Petroleum Supply Stabilization. If approved, our first
12 public workshop will be held on September 24, 2025.
13 Opening this proceeding now is a proactive, strategic
14 choice. It prepares us to act if and when the evidence
15 supports it while ensuring that our decisions are
16 transparent, inclusive, and based on the strongest possible
17 foundation.

18 Thank you and I'm happy to answer any questions.

19 CHAIR HOCHSCHILD: Thank you.

20 At this time, we'll go ahead and hear public
21 comment on Item 8.

22 MS. BADIE: Thank you.

23 The Commission welcomes public comment on Item 8
24 at this time. If you're in the room with us, we're asking
25 folks to use the QR code. It's located in the back of the

1 room. And we have staff from the Public Advisor's Office
2 to assist you with that. And then if you're on Zoom,
3 you'll use the raise-hand feature on your screen, or star
4 nine if joining by phone.

5 And in the room with us, we have Tanya DeRivi.
6 Tanya, if you could please approach the podium? And just a
7 reminder that we're asking for comments to be two minutes
8 or less, and it is helpful to restate and spell your name
9 for our co-reporter as well.

10 MS. DERIVI: Thank you. Tanya DeRivi, T-A-N-Y-A
11 D, like David, -E, capital -R-I-V, like Victor, -I with the
12 Western States Petroleum Association. All right.

13 WSPA appreciates the CEC's efforts to work with
14 industry and its ongoing efforts to better understand
15 California's complex transportation fuel system, as well as
16 the numerous challenges in-state refiners face in trying to
17 meet consumer demand for the upcoming decades. We believe
18 California still must do more to protect its in-state
19 refining assets, including our storage assets, to provide
20 the affordable and reliable gasoline supplies envisioned by
21 SB X1-2 and AB X2-1.

22 We appreciate the several substantive changes CEC
23 has made since initially proposing a Refinery Resupply Plan
24 regulation in February. These changes represent a win for
25 California consumers.

1 As future proceedings for resupply and minimum
2 inventory take place, we iterate here that the CEC must
3 consider the following as it seeks to determine whether
4 regulations are necessary.

5 One, comprehensive and proper analysis of
6 existing extensive data sources.

7 Two, further analysis to assess potential cost
8 impacts of forcing more marine imports into a market that
9 may not be short.

10 Three, avoiding any unintended consequences, such
11 as making less fuel or fuel less affordable or increasing
12 carbon or other pollutant emissions. This requires
13 consistent lifecycle global and regional analysis.

14 Four, whether and how any policy could adversely
15 impact consumers in Arizona and Nevada.

16 And five, ensuring that any policy does not
17 create regulatory bottlenecks that could compromise
18 maintenance safety or could disrupt, halt, or delay the
19 provision of fuels.

20 We believe that a thorough analysis of the above
21 information and considerations will determine that forcing
22 a resupply or minimum inventory obligation on in-state
23 refiners is not necessary and would likely be
24 counterproductive.

25 WSPA would like to thank the CEC for their

1 efforts to engage with industry in developing any practical
2 solutions to ensure an affordable supply of fuel continues
3 to be made available to consumers across California,
4 Arizona, and Nevada. Thank you for this opportunity to
5 provide comments.

6 MS. BADIE: Thank you.

7 And we do not have any other raised hand for
8 comments for this item, so back to you, Chair.

9 CHAIR HOCHSCHILD: All right, let's resume with
10 Commissioner discussions, starting with the Vice Chair.

11 VICE CHAIR GUNDA: Thank you, Chair.

12 I just want to say, again, thanks to Jeremy and
13 the entire team. I'm not going to repeat the statement
14 from the previous item, but just a big thanks.

15 I think a couple of core points I want to note
16 for this conversation that Jeremy has already touched upon,
17 as we looked at the information that we've gathered over
18 the last couple of years through the tools given to us in
19 SB X1-2 and AB X2-1, I think the important piece that has a
20 very clear correlation is, as well as, you know, we can
21 establish some causal relationships, when the supply, in-
22 state supply goes down, suddenly there is a direct
23 correlation to increase in the volatility of the price of
24 the pump.

25 So the tools that are being considered here,

1 whether it's a resupply, which is really around planned
2 outage, if a refinery has a planned outage, how does the
3 refinery plan to ensure that there is enough supply in the
4 market compared to the last production of the planned
5 outage? And two, given that, you know, we watch and look
6 at the information historically, there are always going to
7 be unplanned outages, and what kind of liquidity should the
8 market have to absorb those unplanned outages so the
9 overall supply in the market is stable enough to ensure
10 there isn't any price volatility?

11 So from the premise of that, at a 30,000 foot
12 level, the tools of resupply and minimum inventory has a
13 functional basis in helping with the overall transition.
14 The complexity of this, as Tanya from WSPA noted and staff
15 recognize, is the implementation of these tools can have
16 profound impacts. How we choose to implement them under
17 what conditions could have both profound positive impacts
18 and negative impacts. And it's really important for us to
19 have a wholistic analysis to understand those pieces.

20 I want to note, again, you know, like we've said
21 many times publicly, industry today, a number of industry
22 players today actually plan for resupply when they have a
23 planned outage. It's about how much of that resupply
24 planning is established as a best practice in the industry
25 as a whole, and are there improvements that we could make

1 in collaboration with the industry? Those are the
2 important elements that the staff will continue to tackle.

3 So overall, I really appreciate the opportunity
4 to have a more robust, thoughtful, and deliberative process
5 with broad engagement, so I look forward to supporting this
6 item.

7 Thank you, Chair.

8 CHAIR HOCHSCHILD: Thank you.

9 Any other Commissioner discussion on Item 8? And
10 if not, I'd welcome a motion on Item 8 from the Vice Chair.

11 VICE CHAIR GUNDA: Move Item 8.

12 CHAIR HOCHSCHILD: Is there a second from
13 Commissioner Skinner?

14 COMMISSIONER SKINNER: Second.

15 CHAIR HOCHSCHILD: All in favor, say aye.

16 Vice Chair Gunda?

17 VICE CHAIR GUNDA: Aye.

18 CHAIR HOCHSCHILD: Commissioner Skinner?

19 COMMISSIONER SKINNER: Aye.

20 CHAIR HOCHSCHILD: Commissioner McAllister?

21 COMMISSIONER MCALLISTER: Aye.

22 CHAIR HOCHSCHILD: And I vote aye as well. Item
23 8 passes unanimously.

24 We'll turn now to Item 9, Load Management
25 Standard Compliance Plans, and I welcome Gavin Situ to

1 present.

2 MR. SITU: Good morning, Chair, Vice Chair,
3 Commissioners, and attendees. I'm Gavin Situ, Mechanical
4 Engineer for the Efficiency Division of the Load Management
5 Standards Unit. Today, I'm seeking approval of 4 of the 19
6 Compliance Plans submitted by the regulated parties of the
7 Load Management Standards, or LMS.

8 LMS requires regulated parties to submit
9 Compliance Plans detailing how they will comply with the
10 LMS requirements. These four plans are from two large
11 community choice aggregators, or CCAs, and two large
12 publicly owned utilities, or POU's. The CCAs are Ava
13 Community Energy, or Ava, and Clean Power Alliance of
14 Southern California, CPASC. The POU's are Los Angeles
15 Department of Water and Power, or LADWP, and Sacramento
16 Municipal Utility District, or SMUD.

17 The Commission has already approved Compliance
18 Plans from six regulated parties at the business meeting on
19 May 8th. The remaining Compliance Plans from nine CCAs
20 will be brought for consideration at the later meeting.

21 Next slide, please.

22 The LMS requirements are a groundbreaking effort
23 to create a comprehensive structure to facilitate and
24 promote automated and continuous management of electricity
25 loads in California. The LMS requirements include the

1 large CCAs and large POUs to evaluate marginal cost-based
2 electricity rates. Based on their evaluations, the large
3 CCAs and large POUs must offer such rates and/or programs
4 to their customers to promote better economic -- to provide
5 better economic incentives.

6 The LMS also requires the regulated entities to
7 upload all of their time-varying rates to the Market-
8 Informed Demand Automation Server, or MIDAS. Customers and
9 third parties can access these rates through MIDAS. With
10 the help of automation technologies, customers can then
11 shift loads from high-cost periods to low-cost periods
12 based on their rates. Load shifting benefits Californians
13 by saving them money on electricity bills. It also
14 improves grid reliability and reduces the need for future
15 infrastructure investments.

16 Next slide, please.

17 The LMS also requires regulated parties to
18 design, build, and maintain a single statewide standard
19 tool, referred to as a statewide tool. The statewide
20 tool's goals are to enable third parties, with the
21 customer's permission, to look up the customer's current
22 rate and compare with other available rates. With the
23 customer's consent, they can also change the customer's to
24 a more suitable rate.

25 The Executive Director found good cause for

1 extending the deadline of the statewide tool plan to May
2 8th, 2026, and requests the Commission condition its
3 approval of these CCA and QOU Compliance Plans on this
4 extension. Good cause exists because developing the
5 statewide tool plan has proven to be more complicated than
6 anticipated. The Commission previously approved this
7 extension for the six regulated entities receiving
8 Compliance Plan approval at its 8 May -- sorry, May 8th
9 business meeting.

10 Next slide, please.

11 The two CCAs, Ava and CPSC, submitted their plans
12 to the CEC, and CEC staff reviewed the plans on behalf of
13 the Executive Director. CEC staff provided technical
14 support and a revision request to the CCAs in bringing
15 their plans into compliance. Once the modifications were
16 made, CCAs docketed their final plans.

17 After staff evaluation, CEC's Executive Director
18 has determined that the CCAs' revised Compliance Plans are
19 consistent with the requirements of the LMS regulations.
20 Both CCAs have committed to participation in the CalFUSE
21 Dynamic Rate Pilots. These pilots offer marginal cost-
22 based hourly rates to their customers and help them shift
23 loads.

24 Next slide, please.

25 LADWP submitted its Compliance Plan to the CEC in

1 December 2023.

2 In December 2024, LADWP submitted its revised
3 Compliance Plan in response to a revision request from the
4 Executive Director. In the revised Compliance Plan, LADWP
5 noted that the marginal cost-based rates would not be
6 technologically feasible due to the lack of advanced
7 metering infrastructure. LADWP proposed a managed electric
8 vehicle or EV charging program that leverages MIDAS to
9 broadcast time-varying signals for daily load management.

10 After staff evaluation, CEC's Executive Director
11 has determined that the LADWP's revised Compliance Plan is
12 consistent with the requirements of the LMS regulations.

13 Next slide, please.

14 SMUD submitted its Compliance Plan to the CEC in
15 December 2023. In December 2024, SMUD submitted its
16 revised Compliance Plan in response to a revision request
17 from the Executive Director. In the revised Compliance
18 Plan, SMUD provided an evaluation of marginal cost-based
19 rates that is based on sound methodology and data. The
20 evaluation shows that marginal cost-based rates could
21 achieve great benefits on an individual basis. However,
22 they were not projected to be cost-effective due to low
23 participation projection.

24 SMUD's revised Compliance Plan also points to its
25 current portfolio of programs that encourage load shifting,

1 including critical peak pricing, or CPP, smart thermostats,
2 EV managed charging, and battery or virtual power plants.

3 The CEC staff points out that SMUD's
4 participation rate projection is highly conservative
5 relative to the participation data of domestic and
6 international cohorts. Such low participation projection
7 severely limits the economy at scale that is essential to
8 achieving cost-effectiveness. SMUD's notable conservatism
9 may be influenced by the low participation rate of SMUD's
10 own CPP rate.

11 While CEC staff recognize that SMUD's own data
12 should carry weight, the degree of conservatism should be
13 re-evaluated for reasonableness as more data emerges from
14 similar California rates in the coming years.

15 CEC staff also believes that the other
16 trailblazing features in the LMS regulations address some
17 of the potential challenges that SMUD anticipates or past
18 challenges that sample regions face that may reduce cost-
19 effectiveness. For example, SMUD noted that in Spain, 77
20 percent of the customers were not aware of the dynamic
21 rates. LMS regulations effectively address this issue by
22 requiring public education programs and uploading dynamic
23 rates into MIDAS, which enable automation and thereby
24 improving customer awareness.

25 Accordingly, staff recommends that the approval

1 of SMUD's revised Compliance Plan to be conditioned on SMUD
2 providing an updated analysis on the cost-effectiveness of
3 marginal cost-based rates and that SMUD submit its updated
4 analysis by August 13th, 2028.

5 Next slide, please.

6 For the purpose of complying with the California
7 Environmental Quality Act, or CEQA, staff analysis
8 indicates approval of the Compliance Plan is not a project.
9 All four plans are consistent with the LMIS regulatory
10 requirements and staff, on behalf of the Executive
11 Director, recommends Commission approval with applicable
12 conditions described in previous slides.

13 CEC staff and I would like to thank the CCAs and
14 POU's for their cooperation and commitment to meeting the
15 LMIS regulations. They have been responsive and easy to
16 work with. I and the LMS Team are available to answer any
17 questions.

18 Thank you for your time and consideration. Thank
19 you.

20 CHAIR HOCHSCHILD: Thank you.

21 Let's go to public comment on Item 9.

22 MS. BADIE: Thank you. The Commission welcomes
23 public comment on Item 9 at this time. We'll start with
24 folks in the room and then we'll transition over to Zoom.
25 If you're in the room with us, we ask that you use the QR

1 code or visit the Public Advisor table in the back of the
2 room. That will let us know you'd like to comment. And if
3 you're on Zoom, you'll use the raise-hand feature, or star
4 nine if joining by phone.

5 All right, in the room with us, we have Katharine
6 Larson. Katharine, if you want to approach the podium?
7 And just a reminder, it is helpful if you can state and
8 spell your name for our court reporter to be part of the
9 record. And then, also, we're asking for comments to be
10 two minutes or less. There's going to be a timer on the
11 screen.

12 MS. LARSON: Good morning, Commissioners. My
13 name is Katharine Larson, that's K-A-T-H-A-R-I-N-E, Larson,
14 L-A-R-S-O-N, and I'm with SMUD.

15 SMUD appreciates CEC staff's outreach and
16 collaboration during the review of our Load Management
17 Standards Compliance Plan, and we are comfortable with the
18 outcome before you today with the proposed approval.

19 SMUD is embracing load flexibility as a key
20 strategy to help us achieve our 2030 zero carbon plan goals
21 and save our customers money. And we're very proud of the
22 success we're already seeing in this space. Currently, we
23 are focused on scaling up programs, including programs that
24 can help reduce the need to purchase costly resource
25 adequacy and to avoid the need to upgrade neighborhood

1 transformers as EV charging loads grow.

2 That said, we are watching the dynamic pricing
3 space very closely. And as we said in our Compliance Plan,
4 we plan to continue evaluating cost effectiveness and
5 impacts as more information becomes available.

6 We would support a yes vote from the Commission
7 on this item today. Thank you.

8 MS. BADIE: Thank you. And if there's no other
9 one in the room, I'm going to transition over to Zoom.

10 All right, first, we have call-in user three.
11 I'm going to open your line. If you would like to share
12 your name and spell your name for the record, that will
13 help our court reporter. We are asking for comments to be
14 two minutes or less. There will be a timer on the screen.
15 I'm going to open your line now.

16 MR. UHLER: Hello, Commissioners. This is Steve
17 Uhler, U-H-L-E-R.

18 In SMUD's plan to use MIDAS, they don't seem to
19 have a method to ensure that their data is correct in
20 MIDAS. Even your staff don't seem to be aware that they
21 have dates that have the wrong day of the week, which
22 brings the question of, did they mean another date or did
23 they just put the wrong day of the week?

24 And also getting back to the situation of
25 automation via MIDAS, MIDAS has outages. They continue to

1 go. Your staff do not provide support to the public to
2 meet the Commission's promise to maintain access by the
3 public.

4 Another area is, as a ratepayer, I do not like
5 the situation of you usurping the hearing statutes in the
6 MUD Act that require the report from the general manager
7 and a hearing before they can change any rate. This would
8 mean, unless you have enough withstanding any other law,
9 which we don't have, this would mean they cannot change
10 rates. You cannot change a rate dynamically under the MUD
11 Act. So stop asking for it. Stop expecting it.

12 The other area would be is when MIDAS is wrong,
13 who's responsible? How many billing errors will be
14 considered because MIDAS had the wrong value and somebody
15 made a point-of-sale purchase because it was a point-of-
16 sale system, how is that going to be handled? And SMUD has
17 no plan for that. They think that once they send it to
18 you, the Commission, their hands are free. They have no
19 other procedures. So take that into account.

20 And once again, text MIDAS so we can use it.
21 Thank you.

22 MS. BADIE: Thank you.

23 Next, we'll hear from Michael Quiroz. Michael,
24 I'm going to open your line. You'll unmute on your end.
25 And just a reminder, it is helpful if you can state and

1 spell your name for our record. And there will be a timer
2 on the screen. We're asking for comments to be two minutes
3 or less.

4 MR. QUIROZ: Hello. My name is Michael Quiros,
5 M-I-C-H-A-E-L Q-U-I-R-O-Z. I'm on the Regulatory Team at
6 Ava.

7 I just wanted to say thank you to Gavin,
8 Stefanie, and all the other Energy Commission staff working
9 on this for your collaboration and support. Event
10 flexibility is a high priority for Ava and I really
11 appreciate the Commission's efforts to collaborate with all
12 stakeholders in identifying the most practical and
13 impactful solutions to all the complexities involved.

14 Thank you.

15 MS. BADIE: Thank you.

16 And those are all the raised hands we have for
17 this item. Back to you, Chair.

18 CHAIR HOCHSCHILD: Thank you. Let's resume with
19 Commissioner discussions, starting with Commissioner
20 McAllister.

21 COMMISSIONER MCALLISTER: Well, great. Well,
22 thanks so much, Gavin. Great presentation. And a few
23 comments to sort of provide some context. (Coughs.)
24 Excuse me.

25 So first, I want to thank Ava and Clean Power

1 Alliance and LADWP and SMUD just for all the interaction
2 with staff. We're doing something really new here with
3 load management standards. You know, the authority has
4 been longstanding, but we're really kind of using it, I
5 think, in something close to its full potential through the
6 elements proceeding and all the elements that you've been
7 hearing about in terms of the regulations over the last few
8 years and now their implementation.

9 And so, you know, we have a big diverse state.
10 We're doing something new. We're sort of creating a new
11 playing field and aligning that playing field, figuring out
12 what the rules are, and in practice, implementing
13 regulations; right? So there's a bit of translation. So
14 in a big diverse state like ours, I think it's, you know,
15 kind of logical that the diversity of CCAs and investment
16 utilities and publicly owned utilities that are covered by
17 the LMS regulations is something that we, I think, have
18 learned to embrace. And I think staff has done a really
19 great job of contextualizing and almost customizing the
20 implementation or sort of the planning in each territory
21 and really responding to the realities on the ground in
22 each place.

23 And, you know, you heard, thanks, Heather, for
24 your comments, Michael, as well. I think that that back
25 and forth has been really useful. I think we've learned a

1 lot. I think the utilities actually have learned quite a
2 bit, as well, and we've been able to sort of have that
3 process as a cross-pollinization and understanding what's
4 happening in different parts of the state and learning
5 more. And I think the flexibility, both at the staff level
6 to develop the implementation and sort of the ideas that
7 then go into implementation plans and the flexibility in
8 the covered entities and the four, certainly the four that
9 are on the agenda today, is laudable. We all understand
10 that load flexibility is a key resource and a resource
11 class that we need to define and scale, and LMS can help us
12 do that.

13 You know, there's this vision of prices to
14 devices at sort of the simplest sort of understanding of
15 what that might mean and what load management standards
16 sort of -- you know, the initial idea. But I think we're
17 finding that there's actually quite a rich landscape out
18 there of efforts that are being used now.

19 You know, SMUD has a really robust, I think,
20 programmatic and grounded programmatic approach to getting
21 load flexibility from their customers and working with
22 their customers, not necessarily through rates but through
23 programs that sort of layer over rates. And we're seeing
24 results there. And I think what we're trying to do is
25 respect those experiences and kind of count them towards

1 compliance with the load management standards and now kind
2 of, I think with this, with a greater understanding,
3 figuring out maybe how, you know, not -- how MIDAS can
4 certainly play a role, but also, you know, other
5 technologies can help unlock this resource.

6 And so I think one of the areas of learning has
7 been the statewide tool, so some flexibility is needed. I
8 want to really thank Drew for, you know, your oversight of
9 a lot of this and your sort of a lot of the responsibility
10 for proposing shifts of implementation on your desk. So I
11 really appreciate your attention to all this and your
12 management.

13 So I'm super excited about this. I think, you
14 know, we have -- we've already approved some. We have four
15 more on the docket today. We have a bunch more coming.
16 But I really think, you know, I'll just give a heads-up,
17 it's likely we're going to sort of open an OIR and do some
18 development of new ideas and potentially reopen the rules
19 going forward. So just kind of not imminent, but something
20 that we're thinking about and starting to frame together
21 with the covered entities. In particular, maybe not
22 expecting so much of the statewide tool or taking a
23 different approach in the statewide tool. So we need to
24 work through that in a public process.

25 So again, ongoing back and forth has just been

1 really, really vital and I think really productive. So
2 it's given me a lot of optimism about the path forward.

3 I do want to thank you, Gavin, for your
4 leadership. I mean, I know it's been a lot of relationship
5 building, a lot of back and forth and really amazing, I
6 think, partnership with all the different covered entities.
7 And they all want to do the right thing. We do need to be
8 conscious of the different sort of sizes and ability to
9 bring resources to this. And so we've heard that from, I
10 think, mostly the CCAs. But I think, you know, again, they
11 have different approach and they're in kind of different
12 context. And so we need to think about that and be
13 responsive.

14 Heather, thank you for your leadership.
15 Stephanie Whalen, for sure, just the expertise in-house
16 that we have has been invaluable. Rajiv Dabir, as well,
17 just having that real world experience means a lot or
18 contributes a ton to the process and to the result.

19 Scott Blunk, Mike Sokol, overleading [sic] the
20 division in these efforts at the management level. And I
21 mentioned Drew. And then also Hughson Garnier in my
22 office, he's been a tremendous sort of lead, representing
23 sort of me and making sure that I'm on top of things and
24 aware of all the different discussions and can sort of
25 insert myself when needed.

1 So I'm very, again, optimistic about this. I
2 obviously completely support this item and welcome any
3 comment or interaction.

4 CHAIR HOCHSCHILD: Caan I just ask a question?
5 Can you just help, just at a very high level, articulate
6 where we would be, you know, without load management
7 standard capability and where you think we'll be with it in
8 terms of the material benefits for the state cost saving?
9 Just any insight you can have on sort of the scope of the
10 benefits it's expected to provide.

11 COMMISSIONER MCALLISTER: Absolutely. One thing
12 I didn't mention in my comments just now is, you know, this
13 is a newish assertion of our load management authority. I
14 mean, a couple of attempts in the relatively distant past
15 to leverage that authority, you know, in very specific
16 ways, this is really the first true application sort of in,
17 I think, the original intent.

18 A lot is -- well, sort of this is really being
19 done and has to be done, must be done in partnership with
20 our colleagues at the PUC. The CalFUSE rulemaking over
21 there, they're developing time-dependent rates. They're
22 looking at different approaches to send the signals to the
23 customer that will allow the load management standard sort
24 of infrastructure to actually produce benefit to the
25 customer, so the automation, the unlocking of direct price

1 signals to devices, to meters, to end uses across the
2 state. We did the pool pumps, for example, the Flexible
3 Demand Appliance Standards. There will be more native load
4 flexibility at the device and the customer level.

5 And so you can imagine as prices, you know,
6 hourly prices, at least, that could be, you know, down to
7 five-minute pricing, that automatically permeates
8 throughout the state. You know, we've got all these
9 digital devices connected. They can then modulate their
10 load. They can accelerate, say, EV charging, water
11 heating. They can pull it back if there's a critical peak.
12 And all that can be automated in many, many different ways.
13 I mean, I think the creativity we're seeing out in the
14 marketplace around aggregating load flexibility is
15 tremendous. Particularly, you know, I think the huge
16 potential in the near term are EVs, EV charging. That's a
17 massive new load.

18 You know, data centers are also part of this
19 conversation. I mean, the flexibility conversation is a
20 little bit different with them and the supply planning
21 aspects. But you can imagine, you know, I won't put a
22 number, but it's a large number of gigawatts. I think the
23 sky's really kind of the limit. But it's certainly pushing
24 up towards, you know, double-digit gigawatts potential over
25 time to mobilize.

1 And I think to put a number on it, the idea that
2 or the possibility of modulating load such that we improve
3 utilization of the distribution grid particularly, you can
4 imagine this being aggregated all the way up to the Western
5 grid; right? All the way up to multiple states. But just
6 improving load factor, the utilization of the distribution
7 grid, for example, you can imagine that ticking up a few
8 points, which has massive implications for the CapEx, for
9 the capital investment that's needed to upgrade and the
10 staging of investment that's needed to upgrade the grid.

11 So this really is kind of a fundamental
12 improvement, I think, in the ability of the grid to respond
13 to challenge, to be flexible, and to, you know, be
14 optimized and do all the things we needed to do to keep the
15 lights on and to manage affordability particularly, and
16 also help us with our decarbonization journey.

17 CHAIR HOCHSCHILD: Yeah. Well, just to respond,
18 I mean, I think the part you said that really got my
19 attention is supporting automation to be able to have
20 dispatchable things that can be automated that don't
21 require a customer decision. Once you have a system in
22 place, that's really the kind of tool we need. So thank
23 you for all your work.

24 Yeah, Vice Chair, please.

25 VICE CHAIR GUNDA: Yeah. Thank you, Chair.

1 I just want to start by saying, Gavin, thank you
2 so much for the presentation. I want to recognize,
3 obviously, Mike, you know, the director of the Division,
4 Scott, Rajiv, Heather, for your leadership, Stefanie, for
5 your work.

6 I think I just wanted to kind of, maybe, add to
7 what Commissioner McAllister was saying. I think there is
8 a universal agreement that moving forward, the demand side
9 management has a very important role in realizing the
10 clean, reliable, affordable, and equitable energy system
11 that we have been talking about.

12 And I think in pursuit of kind of that over the
13 last couple of years, you know, I want to just thank
14 Commissioner McAllister's leadership, you know, decades of
15 leadership on this, both from data and the demand side
16 work. But over the last couple of years, we have, as a
17 Commission, adopted the 7 gigawatt goal, recognizing the
18 opportunity.

19 I think part of the state's role here is trying
20 to really figure out how best to serve the broader
21 marketplace from being the most innovative and creative as
22 possible. And it all kind of starts with data, ability to
23 access data, ability to standardize data, ability to have
24 platforms that have ability to, you know, work across
25 architectures. I think the LMS, to me, is rooted in that

1 vision of making sure we have the most innovation possible
2 to have the demand side resources come to the table.

3 We have been talking about three broad buckets of
4 work here. We've been talking about load modifying and
5 shaping the load over time, and how do you transform the
6 customer behavior through automation and infrastructure.
7 We've been talking about how do you incentivize additional,
8 you know, ability of demand flex under operational
9 criteria, whether it's resource adequacy or under
10 reliability conditions. So I think overall, the platform
11 provides us an opportunity to really have the most
12 competitive and creative solutions coming to the table as
13 we move forward.

14 I think, Commissioner McAllister, correct me if
15 I'm wrong, I think from the previous presentations, the
16 upside of the LMS is almost a quarter billion dollars over
17 15 years, if we were able to realize that kind of consumer
18 benefit is what I remember.

19 So looking forward to supporting it. A lot of
20 opportunity here. And thanks for all your work.

21 CHAIR HOCHSCHILD: Any other comments?
22 Commissioner Skinner?

23 COMMISSIONER SKINNER: Thank you. Appreciate the
24 comments by my colleagues. And appreciate SMUD's comments
25 and their reference to part of what they're addressing in

1 their load management strategy is this increased
2 electricity demand from EV charging. And I think those of
3 us involved in that space know that we need EV charging
4 installed.

5 The entities that are doing installations now are
6 confronting these energization problems. And of course,
7 load management will greatly assist us in addressing that.
8 And rather than putting, say, installations on hold until
9 such time that we do either distribution or grid upgrades.
10 So I liked that SMUD acknowledged that directly. I know
11 that these plans are addressing it and that's part of our
12 focus on load management and our demand side activities.

13 And so I was happy to see the approval here and happy
14 to see the more that we do in this area so that we do not
15 have to sacrifice things like our EV charging installation
16 goals or even the energization of new housing. So
17 appreciate it. Thanks.

18 CHAIR HOCHSCHILD: Yeah.

19 COMMISSIONER MCALLISTER: I really appreciate
20 those comments, Commissioner Skinner. And lately, it seems
21 just more and more conversations are happening. And just
22 the highlighting of new technologies, smart panels and
23 smart EV chargers and the utilities and trade partners are,
24 I think, doing a lot of innovation in opening the door to
25 behind-the-meter controls, say, you know, in EV charging

1 where, okay, I've got a 100-amp panel, I want to put an EV.
2 And up to now, it's been, okay, we've got to upgrade the
3 panel to 200 amps. And that has all these upstream effects
4 to force investment in the distribution grid and beyond.

5 And it turns out that, actually, you can do a lot
6 with the headroom that's there and just modulate the EV
7 charging and with an automated signal. And as long as the
8 utility -- or the customer consents to that, it's going to
9 get them their car charged by, you know, 5:00, 6:00, 7:00
10 a.m. when they need it. But it can also really improve the
11 utilization of the grid. It can avoid transformer
12 upgrades. It can do a lot of -- it can have a lot of very
13 positive cost-saving implications and technical
14 enhancements, even reliability improvement.

15 And so it's a win-win-win all around when it's
16 done right. And so that's our goal, is to get it done
17 right and really support the technologies and the
18 automation infrastructure that's going to help that to
19 happen. And there are some ongoing questions about whether
20 we should get involved in interoperability. What kind of
21 communications protocols? Do we leave that to the
22 industry? Do we cajole? Do we regulate?

23 So I think, you know, it's all part of
24 implementing something new. And I think staff is really
25 doing a great job of understanding the issues and figuring

1 out solutions.

2 CHAIR HOCHSCHILD: All right, with that, I
3 welcome a motion on Item 9 from Commissioner McAllister.

4 COMMISSIONER MCALLISTER: Move Item 9.

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

7 COMMISSIONER SKINNER: Second.

8 CHAIR HOCHSCHILD: All in favor, say aye.
9 Commissioner McAllister?

10

11 COMMISSIONER MCALLISTER: Aye.

12 CHAIR HOCHSCHILD: Commissioner Skinner?

13 COMMISSIONER SKINNER: Aye.

14 CHAIR HOCHSCHILD: Vice Chair Gunda?

15 VICE CHAIR GUNDA: Aye.

16 CHAIR HOCHSCHILD: And I vote aye as well. Item
17 9 passes four to zero.

18 We'll turn now to Item 10, Publicly Owned Utility
19 Integrated Resource Plans.

20 Welcome to Bryan Neff.

21 MR. NEFF: Good morning, Chair, Vice Chair, and
22 Commissioners. I'm Bryan Neff, and I work in the Energy
23 Assessments Division, leading the Publicly Owned Utility
24 Integrated Resource Plan review process. Today, I'm
25 presenting staff's review and Executive Director

1 determination, finding five Publicly Owned Utility
2 Integrated Resource Plans consistent with Public Utilities
3 Code section 9621.

4 Next slide, please.

5 Five POU's I am presenting here today. POU's are
6 comprehensive planning documents prepared by utilities to
7 help them manage their electricity resource portfolios.
8 The IRP process is generally supported with a modeling
9 effort that considers all the various planning assumptions
10 from the utilities demand forecasts to future resource
11 needs and yields potential resource procurement plans that
12 are provided in the IRPs.

13 As part of SB 350, the 16 largest POU's are
14 required to create IRPs every five years and submit them to
15 the Energy Commission to ensure they are consistent with
16 state policies. Staff reviews each IRP to make sure it's
17 consistent with state regulations as documented in the POU
18 IRP guidelines. Staff then provides its recommendation to
19 the Executive Director, who provides a determination of
20 consistency for each IRP. Staff's review of the IRPs and
21 Executive Director determination are made available for a
22 45-day public comment period prior to being taken up at an
23 Energy Commission business meeting for adoption.

24 Next slide, please.

25 The guidelines follow statute as laid out in

1 Public Utilities Code section 9621. The statute specifies
2 that the IRPs must demonstrate that the utility will meet
3 policy targets of GHG emissions and renewable portfolio
4 standard, support just and reasonable rates, minimize
5 impacts of ratepayer bills, ensure system and local
6 reliability, increase the localized air pollution with
7 priorities on disadvantaged communities, and maintain a
8 diverse portfolio of energy resources.

9 Next slide, please.

10 The five POU IRPs I am presenting today are from
11 Los Angeles Department of Water and Power, Anaheim Public
12 Utilities, Modesto Irrigation District, Turlock Irrigation
13 District, and Roseville Electric Utility. Each utility has
14 a representative available, either in person or attending
15 virtually, to provide comments and answer questions at the
16 conclusion of this presentation.

17 Next slide, please.

18 LADWP is the nation's largest municipal utility,
19 home to over 4 million people and 1.55 million residential
20 and commercial accounts. It also serves about 5,000
21 accounts in Owens Valley, and is its own balancing
22 authority, including for its neighboring POU's, Burbank
23 Water and Power and Glendale Water and Power.

24 LADWP's managed peak demand is 5,500 megawatts,
25 with 0.5 percent average annual growth through 2030. The

1 utility provides roughly 24,000 megawatt hours annually to
2 meet its net energy for load, which increases by an average
3 of 0.9 percent annually through 2030.

4 Next slide, please.

5 This slide shows two graphs, total net energy for
6 load by resource type and total dependable capacity by
7 resource type. The two years shown represent the range of
8 the study period for this IRP, 2024 representing the
9 current resource mix and 2030 representing the future
10 resource mix in that year. The left graph shows how much
11 energy is provided by each resource type, while the right
12 graph shows how much each resource type contributes to
13 meeting the utility's peak demand.

14 LADWP has a significant and diverse portfolio,
15 including wind from Washington, coal power from Utah,
16 hydropower from Nevada, and nuclear from Arizona. LADWP
17 also gets electricity from solar, geothermal, and small
18 hydro resources, as well as operating its own pump storage
19 system. LADWP relies on four in-basin natural gas plants
20 for local reliability.

21 LADWP will meet its 2030 GHG target, largely with
22 the transition of Intermountain Power Project from coal to
23 natural gas fire generation in 2025. LADWP is investing in
24 additional solar PV and battery energy storage, while
25 maintaining its wind, geothermal, hydro, and natural gas

1 generation capacity.

2 Next slide, please.

3 To summarize, LADWP plans to continue its
4 investment in energy efficiency and building and vehicle
5 electrification.

6 LADWP's investments in new solar, wind, storage,
7 and solar plus storage will increase the amount of energy
8 from renewable resources and their contribution to peak
9 dependable capacity.

10 The phase-out of coal at Intermountain Power
11 Project will also enable the replacement natural gas fire
12 generator to run partially on hydrogen. LADWP also has
13 modernization and plans for its Scattergood Generation
14 Station to install a new unit that can run on 30 percent
15 hydrogen by 2029.

16 LADWP has plentiful assets and capabilities to
17 meet the state's goals, but will face challenges in
18 decarbonizing its in-basin generation while maintaining
19 local reliability. Success is not entirely in LADWP's
20 control as decarbonizing gas generation by switching to
21 hydrogen is dependent upon the commercial availability of
22 that technology.

23 While LADWP is committed to maintaining
24 reasonable rates, cost increases will necessitate increased
25 revenue. LADWP estimates that its retail rates will

1 increase by an average of 4.8 percent annually between now
2 and 2035.

3 The CEC received one docketed public comment from
4 Natural Resources Defense Council, NRDC. NRDC asked the
5 CEC to incorporate Assembly Bill 2700 into the IRP
6 guidelines to promote planning for distribution system
7 investments to support transportation electrification in
8 future IRPs, including LADWP's future IRPs. Among other
9 things, Assembly Bill 2700 requires electric utilities to
10 consider fleet data for mid and heavy-duty vehicle
11 electrification in relevant distribution planning processes
12 and identify resulting distribution system investments in
13 their IRPs. This provision does not affect the consistency
14 of LADWP's IRP with public utilities code section 9621.

15 CEC staff appreciate NRDC's comments and intend
16 to update the IRP guidelines next year to include relevant
17 portions of Assembly Bill 2700. CEC staff will publish
18 draft IRP guidelines for public comment during that update
19 process and welcome continued engagement from NRDC and
20 other stakeholders on this matter.

21 Next slide, please.

22 The next utility, Anaheim Public Utilities,
23 provides electricity and water to 350,000 residents and
24 15,000 businesses located in Orange County. Anaheim serves
25 a peak demand of 600 megawatts and provides 2,400 gigawatt

1 hours of energy annually. Behind-the-meter solar
2 installations and energy efficiency programs offset
3 electricity vehicle demand. Peak demand growth is nearly
4 flat, while energy is projected to increase by 0.6 percent
5 annually.

6 Next slide, please.

7 Anaheim's 2024 portfolio relies mostly on coal
8 from Intermountain Power Project, IPP, and its two natural
9 gas fire generation facilities to meet both its energy and
10 dependable capacity needs. Anaheim's resource portfolio
11 also includes biofuels, geothermal, wind, solar, and small
12 hydro.

13 IPP's switch from coal to natural gas this summer
14 will eliminate coal from Anaheim's portfolio. Anaheim will
15 further decrease its fossil fuel reliance as it will only
16 take energy from this converted facility through June 2027,
17 the original contract termination date. Instead, Anaheim
18 will invest in new wind, solar, and solar plus storage to
19 add to its renewable portfolio and offset the energy loss
20 from IPP. But the utility will still need to purchase from
21 the spot market to meet its total net energy needs.

22 Solar and storage will help Anaheim meet its 2030
23 capacity needs, but will also continue to rely on its two
24 local gas fire generation facilities, Magnolia and Canyon,
25 for dependable capacity. Anaheim plans to secure a

1 contract for renewable natural gas in 2031 when ample
2 supplies are available to supply Magnolia and have that
3 facility become RPS certified.

4 Next slide, please.

5 As Anaheim phases out coal, the utility will
6 continue to invest in wind, solar, storage, and solar plus
7 storage to meet renewable portfolio standard goals.
8 Anaheim is continuing to invest in energy efficiency
9 programs and infrastructure to support vehicle
10 electrification. Anaheim anticipates that there will be
11 134 gigawatt hours of new EV load, which is more than
12 double their 2018 IRP forecast.

13 Some challenges ahead for Anaheim include
14 decarbonizing in-basin generation while maintaining
15 reliability. Anaheim's preferred portfolio will require
16 spot market purchases to meet net energy needs until 2035
17 when additional renewable resources are procured.

18 Next slide, please.

19 Modesto Irrigation District, or MID, provides
20 electricity, irrigation water, and drinking water for the
21 city of Modesto. MID has provided electricity service to
22 Modesto and the area surrounding Modesto since 1923 and is
23 represented by a locally elected board of directors. MID
24 serves roughly 100,000 residential customers, 10,000
25 commercial customers, and 143 industrial customers.

1 The utility's highest one and two peak demand was
2 760 megawatts in 2022 and supplies roughly 2,800 gigawatt
3 hours of net energy annually. Peak demand and net energy
4 growth is expected to be small at 0.5 percent and 0.56
5 percent respectively due to an increase in vehicle
6 electrification offset by customer-side solar generation.

7 Next slide, please.

8 MID owns three natural gas-fired facilities and
9 is a partial owner of hydroelectric facilities, including
10 Don Pedro Dam. MID also has several wind and solar
11 contracts and has been banking renewable energy credits.
12 MID plans to increase its renewable procurement by
13 contracting for solar, battery storage, wind, and baseload
14 renewables.

15 MID receives asset-controlled suppliers specified
16 energy, or ACS, from Bonneville Power Administration. ACS
17 contracts are approved and registered through the
18 California Air Resources Board with a different emissions
19 factor, allowing MID to keep their GHG emissions low.

20 The utility expects to meet its GHG emissions
21 target for 2030 by having fewer contracts for unspecified
22 energy and fewer spot market purchases.

23 Next slide, please.

24 In summary, MID projects their gas-burning
25 generation plants to stay in service through their IRP

1 horizon to meet reliability requirements and peak demand.
2 MID will maintain and increase its renewable portfolio,
3 except for its high wind contract which expires in 2028.
4 Increased ACS contracts will also help reduce MID's GHG
5 emissions.

6 The utility also faces some challenges ahead.
7 While MID procures minimal amounts of energy storage in
8 this IRP, its board of directors adopted a policy stating
9 that energy storage will only be considered on an economic
10 basis because it is not currently needed for reliability or
11 operational needs. Despite the small net energy increase,
12 energy demand from electric vehicles is projected to
13 increase 24 percent annually between 2024 and 2030. MID
14 recently raised rates for the first time since 2012,
15 increasing them by 7.5 percent in both 2023 and 2024.

16 Next slide, please.

17 Moving to the next slide, Turlock Irrigation
18 District, or TID, provides electricity service for
19 2,400,000 customers -- I'm sorry, 240,000 customers and
20 4,700 irrigation accounts in Stanislaus, Merced, and
21 Tuolumne counties. TID is the balancing authority for its
22 territory and for Merced Irrigation District. TID
23 anticipates 0.6 percent annual growth in energy consumption
24 and peak demand during 2024 to 2030.

25 Next slide, please.

1 TID owns four gas generation facilities, six
2 renewable facilities, and a 139-megawatt portion of Don
3 Pedro Dam. TID also contracts for solar power and has an
4 agreement with Western Area Power Administration for zero
5 carbon resources and takes energy from four small hydro
6 facilities.

7 Through 2030, TID expects to add 48 megawatts of
8 geothermal, 41 megawatts of large hydro, 19 megawatts of
9 solar, and 2 megawatts of wind, and a 50-megawatt battery
10 storage system. These values are dependable capacity are
11 available during peak load periods, not nameplate.

12 Emission decreases are coming from reduced
13 consumption of gas fire generation as new RPS and zero
14 carbon resources are added, including an increase of three
15 units at Don Pedro Dam. This change is highlighted by the
16 marked reduction in gas generation contributing to net
17 energy in 2030, but the dependable peak capacity is still
18 needed to meet peak demand.

19 TID plans to meet and exceed its California Air
20 Resource Board greenhouse gas emissions reduction target
21 for 2030. TID anticipates adequate generation over this
22 period to meet capacity requirements, including a 15
23 percent planning reserve margin.

24 TID also anticipates its current distribution,
25 transmission, and local generation will be adequate to

1 maintain reliability, but anticipates additional capacity
2 will be needed after 2030 for reliability purposes.

3 Next slide, please.

4 In summary, TID is reducing natural gas
5 consumption by investing in new hydro, geothermal, solar,
6 storage, and wind resources, and energy efficiency. TID
7 anticipates local capacity additions will be needed for
8 reliability after 2030. Over the 2024 to 2030 planning
9 horizon, TID will rely more on short-term and spot market
10 purchases to help meet its energy demand.

11 Next slide, please.

12 Moving more locally here, Roseville Electric
13 serves the city of Roseville, the largest city in Placer
14 County, with 154,600 residents and 58,000 residential and
15 7,000 commercial accounts. The city owns its distribution
16 system and is within territory managed by the balancing
17 authority of Northern California.

18 Roseville's population is growing, yet energy
19 efficiency savings and rooftop solar PV offset increased
20 electrification, maintaining a modest compounded annual
21 growth of 0.6 percent from 2023 to 2030.

22 Next slide, please.

23 Roseville owns and operates two natural gas fired
24 facilities, Roseville Energy Park and Roseville Power Plant
25 II. Roseville is a member of Northern California Power

1 Agency, which jointly owns and operates geothermal, large
2 hydro, and natural gas generation projects.

3 Roseville also has several long-term renewables
4 contracts, including geothermal, small hydro, wind, and
5 solar. Roseville plans to procure new renewables with a
6 mix of generic solar, wind, geothermal, and small hydro
7 while maintaining current renewable resources. Energy and
8 capacity from natural gas decrease over the forecast period
9 as non-GHG resources are added to the portfolio.

10 In 2024, there is a wind energy generation but no
11 dependable capacity as this is from an energy-only
12 contract. This contract expires in 2028 and is partially
13 replaced with a generic wind resource that will contribute
14 both energy and capacity to Roseville's portfolio.

15 Roseville's new resource procurement will
16 increase its dependable capacity so that by 2029, the
17 utility will no longer rely on spot market capacity
18 purchases to meet its peak demand. However, Roseville will
19 still rely on energy purchases from the spot market.

20 Next slide, please.

21 Between now and 2030, Roseville intends to
22 procure a mix of new solar, wind, hydroelectric, and
23 geothermal resources. Roseville intends to use its newly
24 available advanced metering infrastructure data to expand
25 its demand-side management offerings in the area of

1 electric vehicles, distributed generation, and advanced
2 energy efficiency and demand response programs.
3 Roseville's technology roadmap will include a comprehensive
4 and proactive strategy to enable solutions for customer-to-
5 grid benefits.

6 Roseville investments in its gas generation help
7 maintain reliability and affordability, so transitioning
8 away from these resources will be a challenge. To ensure
9 reliability, Roseville recently took ownership of two 30-
10 megawatt gas-fired backup generators from California
11 Department of Water Resources that are designed for
12 emergency use only during grid stress events.

13 Roseville's significant energy supply from hydro
14 resources makes it susceptible to low production during dry
15 years. While the utility-scale storage is a future
16 resource option, it was not selected in Roseville's
17 preferred portfolio due to costs. Roseville projects a
18 cumulative rate increase of 7 to 12 percent between now and
19 2035.

20 Next slide, please.

21 In conclusion, staff found that each of the five
22 POU IRP filings is consistent with the statutory
23 requirements of Public Utilities Code section 9621,
24 including meeting its GHG targets, PS goals, just and
25 reasonable rates, system reliability, and reducing air

1 pollutants.

2 I'd like to take a moment to thank my fellow
3 staff who helped review these POU IRPs, Allen Lee, Allysa
4 Tavares, Joseph Merrill, Angela Tanghetti, Justin Szsaz,
5 Ingrid Neumann, Cynthia Rogers, Brian Samuelson, Usman
6 Mohammad, Nicholas Janusch, Charles Smith, and staff from
7 the Fuels and Transportation Division. I would also like
8 to thank Mikayla Roberts for administrative assistance.

9 Next slide, please.

10 Staff recommends the Commission approve the order
11 adopting the determinations that the IRP filings of Los
12 Angeles Department of Water and Power, Anaheim Public
13 Utilities, Modesto Irrigation District, Turlock Irrigation
14 District, and Roseville Electric Utility are consistent
15 with the requirements of public utilities code section
16 9621.

17 Thank you for your time. Again, utility
18 representatives are available to answer questions and make
19 public comments.

20 CHAIR HOCHSCHILD: Oh, hey, thank you, Bryan, for
21 that command performance. That was a lot to get through.
22 Appreciate that.

23 With that, we'll go to public comment on Item 10.

24 MS. BADIE: Thank you. The Commission welcomes
25 public comment on Item 10 at

1 this time. If you're in the room with us, we
2 ask that you use the QR code located in the back of the
3 room or visit the Public Advisors table. If you're on
4 Zoom, you'll use the raise-hand feature on your screen, it
5 looks like an open palm, or if joining by phone, you'll
6 press star nine. That's going to let us know you'd like to
7 comment on this item. All right. Just giving that a
8 moment.

9 I am not seeing any raised hands for Item 10, so
10 back to you, Chair.

11 CHAIR HOCHSCHILD: Thank you.

12 Let's begin with Commissioner discussion,
13 starting with the Vice Chair.

14 VICE CHAIR GUNDA: Thank you, Chair.

15 I want to thank Bryan, you know, for that
16 detailed presentation. I've benefited from briefing
17 intimately, so, you know, I'm tracking much of the
18 information and thank you for all the work.

19 I want to just extend the thank yous to Drew and
20 an extensive team of EAD Team, Elise Ursoy, Liz Gill, David
21 Erne, Aleecia Gutierrez, Mikayla Roberts, Angela Tanghetti,
22 informally known as the coach, Alyssa Tavares, Brian
23 McCullough, Allen Lee and Joseph Merrill. Thank you to all
24 of you for a lot of work that goes behind the scenes on
25 this.

1 Again, you know, I continue to appreciate the
2 POU's leadership on moving forward with the IRPs. I'm
3 really kind of thrilled to see the different strategies
4 that are being taken to meet the decarbonization goals of
5 the state while maintaining affordability and reliability.

6 Before I complete my comments, you know, Bryan,
7 just wanted to ask, you know, maybe one question. You
8 know, one of the things I saw is, you know, an increase in
9 rates projection across. Is there anything you want to add
10 there in terms of the broad summary on, you know,
11 affordability in terms of POUs, in terms of rate increases?

12 MR. NEFF: Most have been fairly successful at
13 keeping their rates reasonable. What we're seeing is
14 somewhere typically four to five percent annually on the
15 high end, which seems to be fairly consistent across a
16 number of the utilities and is, I think, lower than we're
17 seeing on the IOU end.

18 VICE CHAIR GUNDA: Thank you. I think it was
19 kind of a striking thing for me to note that, you know,
20 we're going to have that, you know, continued investment
21 that's needed, you know, to meet these and it will have
22 impact on the rates across the state in a variety of
23 ranges.

24 So I think another thing I want to just note,
25 POUs under, you know, public agencies, you know, just

1 recognize the public servants and all the POU's who go day
2 in and day out to continue to work to support the
3 consumers. We have to kind of, when I look at the summary
4 of all of that, different balancing authorities, different
5 ranges of load, you know, we have anywhere from 335
6 megawatts to 5,500 with LADWP and different peak loads that
7 they have to manage. The generation assets and the
8 strategies, whether it's transmission, whether it's
9 contracting resources or actually building new resources
10 are different for each one of them, different rate
11 structures.

12 So all kind of recognizes the range and diversity
13 of POU's and how to incorporate these goals, also, on the
14 solutions that are hydrogen blending that I've seen
15 consistently, energy storage, geothermal and, you know,
16 continued push for demand side management and AMI
17 infrastructure. So all of that, it looks like there's a
18 lot we can learn and provide support in making sure the
19 POU's are able to reach their goals.

20 I want to also highlight, you know, the work
21 that, you know, IOU's are doing and in providing data on
22 IRPs at the PUC and the ability to learn from each other's
23 creative processes and strategies to get to our final goals
24 here.

25 So I'm really, really appreciative of the staff

1 for all the work. And, you know, we at CEC have an
2 important role to continue to foster collaboration and move
3 these things forward, so thank you.

4 CHAIR HOCHSCHILD: All right, unless there are
5 other comments, I don't know, Commissioner Skinner, is
6 there anything else you wanted to add? If not --

7 COMMISSIONER SKINNER: No comments.

8 CHAIR HOCHSCHILD: -- I would welcome a motion on
9 Item 10 from the Vice Chair.

10 VICE CHAIR GUNDA: Move Item 10.

11 CHAIR HOCHSCHILD: Is there a second from
12 Commissioner Skinner?

13 COMMISSIONER SKINNER: Second.

14 CHAIR HOCHSCHILD: All in favor, say aye.

15 Vice Chair Gunda?

16 VICE CHAIR GUNDA: Aye.

17 CHAIR HOCHSCHILD: Commissioner Skinner?

18 COMMISSIONER SKINNER: Aye.

19 CHAIR HOCHSCHILD: And I vote aye as well. That
20 item passes three to zero.

21 With that, I'd go to our Chief Counsel to prep us
22 for closed sessions.

23 MR. RANCHOD: Thank you, Chair.

24 The Commission will now go into closed session
25 to discuss Item 16B, pursuant to Government Code section

1 11126(e) (1), the CEC may adjourn to closed session with its
2 legal counsel to discuss pending litigation matters that
3 are stated in the published agenda.

4 CHAIR HOCHSCHILD: Okay, and we'll plan to
5 reconvene here at 1:30. Thank you.

6 (Closed session from 12:11 p.m. until 1:34 p.m.)

7 CHAIR HOCHSCHILD: Okay, welcome back, everyone.
8 We are here. Vice Chair Gunda will be with us momentarily.
9 We had completed Item 10.

10 Sanjay, we don't have to report out anything from
11 closed session; correct? Nothing to report from closed
12 session.

13 So with that, let's move on to Item 11. I
14 welcome Elyse Kedzie to present on energy storage
15 innovations to support grid reliability.

16 MS. KEDZIE: Thank you. Waiting for those.
17 Thank you.

18 Good afternoon, Chair, Vice Chair, and
19 Commissioners. My name is Elyse Kedzie and I'm an engineer
20 in our Energy Research and Development Division. Today,
21 staff is seeking approval for four proposed awards under
22 the solicitation titled Energy Storage Innovations to
23 Support Grid Reliability.

24 Next slide.

25 Grid-scale energy storage has become an

1 increasingly important part of California's renewable
2 energy portfolio, enabling the storage of solar and wind in
3 times of surplus and providing grid reliability during
4 times of peak demand. California currently leads the
5 nation with over 15 gigawatts of battery energy storage
6 capacity installed, and we expect this number to grow as
7 the state targets carbon neutrality by 2045. New
8 innovations in storage technologies, materials, and designs
9 are poised to lower costs, improve supply chain resilience,
10 and improve the safety of these systems.

11 The purpose of this solicitation is to advance
12 short- and long-duration energy storage, specifically
13 targeting stationary applications to enable better
14 integration of renewable energy and improve overall grid
15 reliability. In this solicitation, there were two funding
16 groups, one for applied research and development to improve
17 on existing or novel energy storage technologies, and the
18 other for demonstration projects exploring innovative
19 combinations of technology, location, and grid services to
20 optimize customer and grid benefits.

21 Next slide, please.

22 These projects will provide much-needed funding
23 to accelerate the research, development, and scale-up of
24 novel energy storage technologies for grid applications.

25 In addition, the demonstration projects will

1 increase the value of energy storage systems by offering
2 multiple grid services, such as backup power, frequency
3 regulation, and deferral of costly grid infrastructure
4 upgrades.

5 Energy storage demonstrations will also improve
6 the local energy resiliency in event of grid outages,
7 improving outcomes for vulnerable communities.

8 Once deployed, these systems will also reduce the
9 curtailment of renewable energy, which will lower the cost
10 of the clean energy transition for California ratepayers
11 and lower emissions and pollutants associated with fossil-
12 based generation.

13 Next slide.

14 On this slide, you can see the summary of the
15 four proposed projects, with CEC funding totaling just over
16 \$18 million.

17 I'll now go over each of the projects
18 individually.

19 Next slide, please.

20 So our first proposed award is with Enzinc.
21 Building off of previous CalSEED and BRIDGE awards, this
22 proposed project will further the development of a
23 rechargeable nickel zinc battery with their proprietary
24 zinc sponge anode for stationary storage applications. The
25 three-dimensional zinc sponge architecture prevents the

1 formation of dendrites during charging, which is a common
2 issue in zinc-based batteries and can impact the
3 efficiency, the cycle life, and performance of the cell.
4 This project will build out their process to manufacture
5 and embed the zinc anode into the current collector, which
6 will improve battery performance. Once the process is
7 built and optimized, these second-generation anodes will be
8 tested in a 100-amp-hour battery system at a testing lab at
9 UC Riverside.

10 This project aims to lower the manufacturing cost
11 of nickel zinc batteries and reach a longer cycle life of
12 5,000 cycles, which is 16 times longer than what's been
13 currently demonstrated. If commercialized, this technology
14 could convert existing lead acid manufacturing facilities
15 to zinc ion, thereby enabling a domestic supply chain.
16 Enzinc projects that they will deploy 396 megawatts of
17 their systems by 2035, which would lead to energy cost
18 savings of \$46 million.

19 This project also benefits local communities
20 around Richmond and Oakland, California, through
21 educational science programming and college scholarships to
22 local high school students.

23 Next slide, please.

24 The second proposed award is with DarmokTech,
25 located in Livermore, California. This project will

1 develop a high-energy density, solid-state sodium ion
2 battery for use in grid reliability and stationary
3 applications.

4 The project is targeting two key innovations.
5 First, they will partner with Lawrence Livermore National
6 Lab to screen and optimize for electrolyte formulations
7 with increased conductivity and stability. Second, the
8 project will design a recyclable battery architecture that
9 enables easy disassembly at the end of life, increasing the
10 efficiency and value proposition for battery recycling.

11 The applicant will first construct single-layer,
12 small-scale cells on the order of 10 to 50 milliamp hours.
13 And by the end of the project, they will scale up to larger
14 5 to 10 amp hour cells with a third-party manufacturer.
15 These cells will also be recycled with their non-shredding
16 disassembly process, and the material will be recovered for
17 use in new cells. This process is expected to reduce
18 emissions associated with conventional battery recycling by
19 80 percent.

20 Next slide, please.

21 The next proposed project is with Renewell
22 Energy. Renewell will repurpose idle oil and gas wells
23 into gravity-based storage assets. The project will build
24 a network of five 36-kilowatt/36-kilowatt-hour gravity
25 wells in Kern County.

1 These systems work by raising and lowering a
2 weight in a fluid-filled well bore, converting potential
3 energy into electricity for durations of up to five hours.
4 This technology solves two emerging issues, one being
5 decommissioning idle oil and gas wells, and the second
6 being building a diverse energy storage portfolio.

7 Since much of the infrastructure utilized will be
8 legacy oil and gas equipment, gravity well installations
9 will leverage the specialized oil and gas workforce to
10 build out these projects.

11 In addition, the use of pre-existing
12 infrastructure, including the wells and the electrical
13 systems, will significantly lower the system's CapEx,
14 thereby increasing the technology's scalability.

15 It's expected that this project will result in
16 almost \$350,000 in distribution upgrade deferral savings,
17 which will be passed on to the local customers.

18 Next slide, please.

19 Our final proposed award today is a demonstration
20 project with Long Hill Energy Partners. This project will
21 demonstrate a 500-kilowatt/5-megawatt-hour quinone-based
22 organic redox flow battery provided by Quino Energy. Quino
23 has developed a novel zero-waste process for synthesizing
24 its redox-active molecules, which, when deployed in a flow
25 battery, demonstrate very low degradation, a high roundtrip

1 efficiency of around 70 percent, long system lifetimes, and
2 a pathway to reach a levelized cost of \$0.05 a kilowatt-
3 hour. This system benefits from a non-flammable technology
4 with no toxic or hazardous gases generated during operation
5 and a low-risk domestic battery supply chain.

6 This battery will be deployed at the High Desert
7 Regional Health Center, which is located in Lancaster,
8 California, in a disadvantaged and low-income community, as
9 well as a very high fire severity zone. The anticipated
10 benefits of this technology include a reduction in
11 electricity costs for the health care center, about
12 \$300,000 in the first year of operation, increased energy
13 resilience for a critical facility, and reduction in
14 greenhouse gas emissions.

15 As the first validation of the technology in the
16 field, this project will test the system's ability to stack
17 multiple grid and customer services like time-of-use
18 management, backup power, and islanding capabilities. And
19 it will analyze the economic savings and energy resiliency
20 benefits delivered to the facility.

21 Next slide, please.

22 While the first two R&D projects are expected to
23 advance the technologies at lab scale, these last two
24 demonstration project technologies have significant
25 potential to impact the energy storage markets in

1 California and beyond. Long Hill Energy Partners' 5-
2 megawatt-hour demonstration at the High Desert Health
3 Center is estimated to provide over \$10 million in savings
4 over the system's 25-year lifetime from time-of-use savings
5 and demand charge reduction. If this technology is
6 deployed at 25 percent of the critical community facilities
7 in Los Angeles County, it would result in cost savings of
8 over \$700 million, which would provide great benefit to
9 local ratepayers.

10 In addition, California currently has over 38,000
11 idle oil and gas wells across the state. If Renewell's
12 gravity well technology is applied to 25 percent of these
13 wells, this would result in 124-gigawatt-hours of energy
14 storage annually and would contribute to improved grid
15 reliability through peak shaving, energy shifting, and
16 ancillary services. The corresponding costs saved over the
17 system lifetimes would be -- would total as much as \$1
18 billion across the state.

19 Next slide, please.

20 In summary, staff recommends the approval of
21 these four agreements and adoption of staff's determination
22 that these projects are exempt from CEQA.

23 That concludes my presentation, and I'm happy to
24 take any questions. We also have representatives from each
25 of the project teams on the line if you have any additional

1 questions. Thank you.

2 CHAIR HOCHSCHILD: Terrific.

3 Let's go first to public comment on Item 11.

4 MS. BADIE: Thank you, Chair.

5 The Commission welcomes public comment on Item 11
6 at this time. If you're in the room with us, we're asking
7 folks to use the QR code located at the Public Advisor
8 table in the back of the room. If you're on Zoom, you'll
9 use the raise-hand feature. It looks like an open palm on
10 your screen. And if you're joining by phone, you'll press
11 star nine.

12 All right, we don't have anyone in the room with
13 us, so I'm going to transition to Zoom.

14 Mike G., I'm going to open your line. You'll
15 unmute on your end. And just a reminder, we'll have a two-
16 minute timer on the screen. And if you would like to share
17 your name and spell it for the record, our reporter would
18 appreciate that as well.

19 MR. GALLUZZO: Yes, this is Michael Galluzzo,
20 spelled M-I-C-H-A-E-L G-A-L-L-U-Z-Z-O. And I'm Chief
21 Scientist with Enzinc.

22 I just wanted to comment and say that Enzinc is
23 thrilled to receive this award from the CEC to support a
24 more resilient grid in California. We believe that zinc
25 batteries will be a key technology to enable grid

1 resiliency while reducing our dependency on lithium-ion
2 batteries that are typically manufactured overseas.

3 So we greatly appreciate the continued support by
4 the CEC as well as California rate payers towards this
5 technological development and look forward to working with
6 the CEC to apply our technology in this critical area.

7 So thanks again.

8 MS. BADIE: Thank you.

9 Next, we'll hear from Deepak at DarmokTech. I'm
10 going to open your line.

11 MR. UPADHYAY: Thank you. My name is Deepak
12 Upadhyay, D-E-E-P-A-K. Last name is Upadhyay,
13 U-P-A-D-H-Y-A-Y. I'm CEO of DarmokTech.

14 On behalf of our project partner, Lawrence
15 Livermore National Lab and the entire DarmokTech team, I
16 sincerely thank project manager Bryan Lee and the entire
17 CEC project evaluation team for their huge effort in
18 bringing this project to this stage.

19 I also want to thank the CEC board members for
20 advancing that program and for asking thoughtful and
21 relevant questions. Thank you for supporting technology
22 that can truly make a real and meaningful impact.

23 Thank you.

24 MS. BADIE: Thank you.

25 And those are all the raised hands we have for

1 this item. Back to you, Chair.

2 CHAIR HOCHSCHILD: Well, thank you so much.
3 Thanks for the presentation. And thanks to all the hard
4 work from the staff. Looks like a great lineup of
5 chemistries and companies. I've been to Enzinc and I'm
6 really impressed with theirs.

7 And, you know, these are all non-lithium
8 chemistries. Obviously, we're very, very far down the path
9 with lithium and that is what's been deployed across the
10 grid in California. That fleet is performing very, very
11 successfully. And I think we're seeing good trends in
12 terms of cost reduction, also time to build and so on. But
13 it is still really strategic to play some bets with these
14 non-lithium chemistries.

15 One question I had for you, when you sort of look
16 at the ability to manufacture these and have a domestic
17 supply chain and do that, you know, within the United
18 States, looking across this suite of four, you know,
19 companies we're supporting, how does that look in terms of
20 domestic supply chain, and then also vulnerability to
21 tariffs, you know, versus lithium?

22 I mean, obviously, the energy storage space seems
23 to have been fortunate in terms of escaping the cuts to be
24 made to the tax credits we're seeing for solar and wind and
25 electric vehicles and heat pumps and so on. But tariffs

1 are still a vulnerability. So I wonder if you could just
2 speak to how it looks, you know, for tariffs and domestic
3 supply chain for these chemistries?

4 MS. KEDZIE: Yeah, so all of these, as you
5 mentioned, all of these technologies are non-lithium. And
6 the goal of the solicitation was to advance pre-commercial
7 technology. So because lithium-ion is already at the
8 commercial stage, we wanted to target our investments
9 towards some of these more novel technologies that are
10 earlier stage. And because these are earlier stage
11 technologies, the supply chains haven't been set up or
12 stood up until -- and they plan to be once they reach a
13 scaled commercial -- commercial scale, I guess.

14 So a lot of the materials that would be found in
15 these technologies, so like zinc, sodium, the quinone-based
16 chemical, those can be mined domestically, but historically
17 they've been sent overseas for processing. We don't do a
18 lot of mineral processing in our country.

19 So I think in the long-term, and this is a
20 conversation that maybe involves like, you know, the
21 federal government as well, I don't know if I'm poised to
22 answer all of these topics, but we would eventually set up,
23 you know, more domestic materials processing capabilities
24 in this country, more mining, because we do have the
25 resources in the United States for a lot of these critical

1 minerals. But currently there is not a huge material
2 supply chain available right now.

3 That being said, there is opportunity there. I
4 know for the project with Quino Energy, they're working on
5 making their quinone-based product in the United States in
6 New York. They have a facility where they convert their
7 redox-active compound into the battery chemical that they
8 use, their electrolytes. So I think there's work that's
9 being done, but obviously there's still a lot to do in that
10 realm.

11 CHAIR HOCHSCHILD: Yeah, that's helpful.

12 And then I think the other request I would have
13 is, these are pretty varied in their approach. We're
14 talking about everything from gravitational batteries to
15 flow batteries to zinc and so on. And, you know, by the
16 way, this is a long, proud tradition we have had and
17 placing a lot of bets over many, many years. When I
18 started the Energy Commission 12 years ago, we were doing
19 iron, chromium and vanadium chemistries and so on.

20 I would appreciate some kind of reporting back
21 from your team on how to compare and contrast the different
22 features here. And some of them, you know, may be very
23 specific to, you know, these well sites that we have that
24 may lend themselves. So maybe gravitational storage has a
25 special advantage here because we have a lot of wells in

1 ways that other states don't. But some way for us as a
2 Commission to better understand how to compare and contrast
3 the assets and advantages that each of these chemistries
4 and approaches brings, so we can maybe refine a little bit
5 further.

6 I mean, the Long Duration Storage Program we've
7 had has been pretty open-ended in that, you know, we're
8 basically everything from eight to 100 hours. But just to
9 maybe come back when we have some findings, you know, that
10 could be helpful for us to think about how we place our
11 non-lithium, you know, investments.

12 Let me just open up to my colleagues here.
13 Commissioner McAllister?

14 COMMISSIONER MCALLISTER: Yeah, just I don't want
15 to repeat what the Chair just said, but I agree with
16 everything.

17 And, yeah, I think the contextualizing, I've
18 really appreciated the briefings I've gotten in the past
19 from the storage team, generally. I mean, we have
20 incredible expertise, including yourself, Elyse, and others
21 on the team just that understand all the different storage
22 sort of verticals and the applications and, you know,
23 benefits and challenges.

24 I really love -- there's a lot of interesting
25 innovation going on with repurposing old wells. And I

1 really love this project. And, you know, gravity is
2 something that we have plentiful supply of and you can't
3 beat -- it doesn't have to be imported, so nice to have
4 that homegrown resource. And, you know, would really love
5 to keep tabs on these projects as they go forward. And
6 particularly the spent wells, we've sort of had discussions
7 on and off about those over the years.

8 And it's nice to see an application coming to
9 fruition. And there's some other really interesting things
10 percolating out there. So hopefully we'll get more of
11 that, but agree with the diversity. And I mean, the flow
12 back, this is long -- some of these are longer duration,
13 more than four hours, but really I'm interested in
14 technologies that have the potential to really be truly
15 long duration and help us sort of approach the multi-day,
16 multi-week even, and eventually seasonal need for storage.

17 So definitely interested, supportive and
18 interested in how these go forward, so thanks.

19 CHAIR HOCHSCHILD: Vice Chair?

20 VICE CHAIR GUNDA: Okay. Thank you, Chair.

21 Thanks, Elyse, for the presentation. And I know
22 Aria and Vera (phonetic) for your leadership, as well, in
23 the broader portfolio of work. I really appreciate the
24 diversity of the projects.

25 I'm particularly interested on the Renewell, you

1 know, the oil wells in Kern County. I don't know if you're
2 able to answer these questions or if we have somebody from
3 the company. A couple of pieces on this.

4 Just on -- let me get a step back and say,
5 there's a lot of, you know, issue with idle wells that are
6 abandoned; right? So like we have the abandoned wells
7 issue around Kern County and elsewhere. And I think
8 there's an opportunity here for just transition given the
9 workforce transition.

10 So with that background, any findings on previous
11 projects or other projects from the company? And also,
12 just on handling safety, I think, you know, a big part of
13 the community concerns have been around repurposing in
14 terms of safety and potential other issues that are CEQA
15 related. So wanted to get a sense of any learnings from
16 other projects and, generally, how are we thinking about
17 decommissioning and safety? And we can also follow up
18 with, just very curious, and are we working with CalGEM,
19 you know, to just get some input from them on the
20 opportunity in the broader petroleum transition?

21 MS. KEDZIE: Yeah, those are great questions. I
22 wonder if anyone from Renewell is on the line to answer
23 them? I can speak to a little bit of that. I know they
24 have a current pilot demonstration in -- it's not Kern
25 County, I can't remember where, but it's a single well. So

1 they've done one pilot demonstration in the fields. And
2 this would be a system of five wells.

3 I know, also, that this is kind of an alternative
4 to the -- well, it fulfills the requirements of CalGEM's
5 plug and abandonment requirements. So this is an
6 alternative for well owners to continue getting revenue
7 from these wells by producing electricity. So in the
8 process of converting the well from an idle well into this
9 gravity storage well, they're going through the sealing of
10 the well, the concrete plugs, they're going through the,
11 you know, remediation to that extent to mitigate any
12 environmental hazards and prevent any, you know, prolonged
13 methane leakage in the long-term.

14 So they are satisfying those requirements and
15 then producing and turning it into an energy storage asset
16 at the same time. So it's a new revenue stream for these
17 well owners. So that's one of the motivations.

18 VICE CHAIR GUNDA: Can you, Elyse, can you speak
19 to -- I mean, I'm just kind of -- given that we're using
20 the wells, there are no CEQA implications at all?

21 MS. KEDZIE: That's a good question. I'm sure
22 that's --

23 VICE CHAIR GUNDA: Yeah, I mean, I completely
24 defer to the determination of the --

25 MS. BADIE: We have an attendee identified as

1 Sarah that's raised their hand.

2 MS. KEDZIE: Yes. Yes, that would be --

3 MS. BADIE: If I can open that line?

4 MS. KEDZIE: Sarah, come join us.

5 MS. DOUGLAS: Hello, I don't know if you still
6 need like my name, but Sarah Douglas, S-A-R-A-H
7 D-O-U-G-L-A-S, from Renewell Energy. And happy to answer
8 those questions.

9 As Elyse has mentioned, our main goal is to turn
10 liabilities economically and environmentally into assets.
11 So all of our systems are monitored for methane and
12 pressure leaks in compliance with what CalGEM has
13 established as the plug and abandonment requirements. We
14 actually have a bill running in the California legislature
15 currently, it's Bill 567, that will formally establish a
16 pilot that CalGEM will be regulating for the regulation of
17 these systems. So that's something we're anticipating very
18 soon.

19 If you can remind me what your other questions
20 were, I'm happy to answer.

21 VICE CHAIR GUNDA: Just a quick comment on the
22 CEQA exemption.

23 MS. DOUGLAS: Yes. We have spoken with -- so our
24 location is Kern County. We have spoken with the Kern
25 County Board. And, actually, our previous pilot was also

1 in Kern County, so we received CEQA exemption for that one
2 well pilot. We are in discussion and should be receiving
3 CEQA exemption for the five well pilot as well.

4 As far as permitting, we will get a permit from
5 CalGEM for the well rework, which is the cement plug that
6 we'll place at the bottom of the well to isolate the
7 reservoir from the atmosphere. And then we'll get a
8 separate permit through county and CEQA to do our surface
9 work.

10 VICE CHAIR GUNDA: Sorry, just kind of one very
11 short question here. So in terms of the revenue sharing,
12 so you are going to be participating at a good level asset
13 in the long term with leasing of the wells?

14 MS. DOUGLAS: Yes. The current business model is
15 we retain ownership of our systems. The well owner retains
16 ownership of the well assets and we essentially lease the
17 wells under a contract for a predetermined amount of time.
18 Currently, we've been designing for a 30-year lifetime, so
19 all of our system components are built to last at least 30
20 years.

21 And the second part of that question, do you mind
22 reminding me?

23 VICE CHAIR GUNDA: No, no, I think you did
24 answer. Thanks. I think that's really helpful. I think I
25 just wanted to get a sense of how this will be implemented.

1 That's super helpful. Thanks Sarah.

2 MS. DOUGLAS: Great. Thanks.

3 CHAIR HOCHSCHILD: I would just say, Elyse, for
4 this one, I've never seen that kind of technology in
5 operation. And when there's, you know, something to see
6 for a site visit, when I'm in Kern County, and I know the
7 Vice Chair is down there frequently, maybe we could follow
8 up --

9 MS. KEDZIE: Sure.

10 CHAIR HOCHSCHILD: -- so whenever that is.

11 Yeah, please, Commissioner.

12 COMMISSIONER MCALLISTER: I wonder, Elyse or
13 possibly Sarah, could talk about the sort of controls and
14 optimization aspect of the project, like you have five
15 wells, each one with a certain capacity and sort of what
16 you envision long-term being sort of the ability to sort of
17 aggregate and, you know, use AI, whatever, you know,
18 automate to really respond to real-time grid conditions and
19 accelerate or decelerate the deployment and, you know, just
20 kind of where the -- where you see the model evolving,
21 assuming this project's successful? And as it scales, it's
22 kind of a beautiful thing to imagine, but I imagine that
23 you've thought about this in terms of your business model.

24 But without giving it too many details, I'd love
25 to hear that vision.

1 MS. DOUGLAS: That's a great question. And I
2 wish our controls engineer were online now, but he actually
3 just got ACL surgery, so he is out of commission currently.

4 One aspect of the tasks for this grant is
5 actually refining our controls and telemetry system. And
6 the goal of this system is to be able to operate all of our
7 wells in any combination between in parallel. So we want
8 maximum power in the grid and in series. So we want a --
9 we have ultimately 15, 20, 30 wells in a field and we can
10 give 15, 20, 30 hours of storage with that type of
11 operation.

12 So ultimately the goal of the controls is to keep
13 it as open-ended as possible to really be able to be
14 receptive to current and future grid needs. That's about
15 as detailed as I can go. I am not the one building these
16 controls, but it is definitely something that is on the
17 close horizon for us.

18 COMMISSIONER MCALLISTER: No worries. Really
19 appreciate that and hope your lead engineer there, controls
20 engineer, recovers quickly. So thanks.

21 CHAIR HOCHSCHILD: Great. Okay. Thank you.

22 With that, unless there's further comments, I'd
23 welcome a motion on Item 11 from the Vice Chair.

24 VICE CHAIR GUNDA: I move Item 11.

25 CHAIR HOCHSCHILD: Is there a second from

1 Commissioner McAllister?

2 COMMISSIONER MCALLISTER: Second.

3 CHAIR HOCHSCHILD: All in favor, say aye.

4 Vice Chair Gunda?

5 VICE CHAIR GUNDA: Aye.

6 CHAIR HOCHSCHILD: Commissioner McAllister?

7 COMMISSIONER MCALLISTER: Aye.

8 CHAIR HOCHSCHILD: Commissioner Skinner?

9 COMMISSIONER SKINNER: Aye.

10 CHAIR HOCHSCHILD: And I vote aye as well. Item

11 11 passes forward to nothing. Thank you.

12 We'll turn now to Item 12, PacifiCorp. Welcome
13 to Tanner.

14 MR. KURAL: Good afternoon, Chair, Vice Chair,
15 Commissioners. My name is Taner Kural. I'm Grid
16 Resilience Specialist at the Energy Research and
17 Development Division, here to present this agreement with
18 PacifiCorp recommended for award under the Community Energy
19 Reliability and Resilience Investment Program.

20 Next slide, please.

21 This program is acronymed as CERRI, and this is
22 federally funded under the Infrastructure Investment and
23 Jobs Act under -- also known as the Bipartisan
24 Infrastructure Law under section 40101(d), Grid Resilience
25 Formula Funding for States and Tribes. California has been

1 awarded \$106 million thus far. And if funding continues,
2 we expect to receive approximately \$180 million in total.

3 CERRI is a competitive grant program that
4 primarily funds grid hardening projects that reduce
5 frequency and duration of outages for communities across
6 California, strengthens those communities ability to
7 function during power outages. Additionally, projects can
8 enhance electric system adaptive capacity to prevent
9 outages in the first place.

10 Next slide, please.

11 So this program's first round of funding closed
12 in October 2024. Round two is currently open, set to close
13 August 29th. Under Round 1, we had \$64 million available
14 in funding and expect and intend to fund \$50 million under
15 this round.

16 Projects, as a review, projects must increase
17 community energy reliability and resilience, support
18 California's energy policy and goals, provide community
19 benefits, and create good paying jobs. Round 1 proposed
20 four projects for award and three of these four projects
21 have been approved by the US Department of Energy. The
22 PacifiCorp Project is the first of these projects to be
23 brought to a business meeting with the City of Anaheim and
24 scale microgrids to follow in an upcoming business meeting.

25 Next slide, please.

1 Under PacifiCorp scope, they have two main parts.
2 The first part is that they will upgrade 20 miles of
3 existing 12 kV distribution lines with cover conductor
4 material. Cover conductor reduces the face-to-face
5 contacts that can cause outages or potentially ignite a
6 wildfire. This reconductoring upgrade is designed to be
7 safely operational during high dry wind conditions up to 56
8 miles per hour for most segments of the line.

9 The second part of this project is to install
10 advanced metering infrastructure, including 4,500 smart
11 meters that will provide enhanced situational awareness for
12 fault location by better pinpointing energized-down
13 conductors.

14 And so on these maps here, the upper left slide
15 shows where the AMI infrastructure upgrades will be
16 installed. The green lines represent the circuits where
17 the AMI will be installed and it's across their service
18 territory along the Northern California rural area
19 bordering Oregon. This area is a high fire threat district
20 and is impacted by frequent outages, five times the state
21 average.

22 The cover conductor portion is shown on the lower
23 right map by the yellow line. This is the existing rights
24 of way where they're going to be doing reconductoring. And
25 this line -- these cover conductor upgrades will be

1 installed and serve the happy camp community in that area
2 as well as the Karuk tribe in that area as well.

3 Next slide, please.

4 Expected programs -- sorry. Expected benefits
5 from this project include reducing the risk of utility-
6 caused wildfire in the region and reducing occurrences of
7 power shutoffs. Project activities will occur and will
8 benefit communities that are identified as disadvantaged
9 across the service area. And project activities will
10 directly support the Karuk Tribe, a federally recognized
11 Native American tribe. Project upgrades will reduce
12 dispatch time and expedite service restoration.

13 In addition, the project will include workforce
14 development benefits, which include partnering with the
15 local Electric Workers Union to fund paid apprenticeship
16 programs and tuition assistance. Half of the workforce
17 under this project will be registered apprentices.

18 Next slide, please.

19 Staff recommends approval of the PacifiCorp Grant
20 Agreement under the CERRI Program and adoption of staff's
21 determination that this project is exempt from CEQA.

22 I'm available for any questions. Additionally,
23 representatives of the grant recipient are present online.

24 This concludes my presentation. Thank you.

25 CHAIR HOCHSCHILD: Thank you so much.

1 We'll go now to public comment on Item 12.

2 MS. BADIE: Thank you.

3 The Commission welcomes public comment on Item
4 12. If you're in the room, you can raise your hand. If
5 you're on Zoom, you'll use the raise-hand feature that's on
6 your screen, or star nine if joining by phone. That's
7 going to let us know you'd like to comment on this item.
8 And just giving that a moment.

9 All right. We do not have any raised hands for
10 Item 12. Back to you, Chair.

11 CHAIR HOCHSCHILD: Good.

12 Just want to say, I'm thrilled to see this and
13 very happy to see this funding landing, much, much needed.
14 It seems like a really well-crafted proposal, so delighted
15 to support.

16 And unless there are other comments?

17 Oh, Commissioner?

18 COMMISSIONER MCALLISTER: Yeah, I just want to
19 say thanks, Tanner, for the briefing and I'm following
20 this. And it's great to see this funding, you know, this
21 project and others upcoming to really be spread across the
22 whole top to bottom of the state, and particularly in our
23 rural areas and tribal areas where just so many challenges
24 managing the grid. Great to see covering conductors
25 getting a lot of play. You know, a lot of talk about

1 undergrounding, but cover conductors are also a really
2 awesome solution to wildfire mitigation and much cheaper.

3 So anyway, supportive of this project. Thanks a
4 lot.

5 CHAIR HOCHSCHILD: I'll just add, you know, I was
6 at the Tribal Energy Summit with Commissioner Gallardo and
7 Commissioner Houck a few days ago. You know, you mentioned
8 the Karuk tribe. I mean, some these tribes are losing
9 power up to 10 times a year or more. So this kind of thing
10 is really especially needed.

11 So unless there's -- oh yeah, Vice Chair, please.

12 VICE CHAIR GUNDA: I think all the points have
13 been covered.

14 I just wanted to say thank you for the
15 presentation. And I want to just recognize Alex, both
16 Alex's for their work on this. And I think, you know, just
17 to emphasize, I think the residency aspect of this and the
18 distribution side is very helpful and exciting. Thanks.

19 CHAIR HOCHSCHILD: Are you excited enough to move
20 the item?

21 VICE CHAIR GUNDA: Yes, move the item.

22 CHAIR HOCHSCHILD: All right.

23 COMMISSIONER MCALLISTER: Second.

24 CHAIR HOCHSCHILD: Is there a second from
25 Commissioner McAllister? All right. All in favor, say

1 aye.

2 Vice Chair Gunda?

3 VICE CHAIR GUNDA: Aye.

4 CHAIR HOCHSCHILD: Commissioner McAllister?

5 COMMISSIONER MCALLISTER: Aye.

6 CHAIR HOCHSCHILD: Commissioner Skinner?

7 COMMISSIONER SKINNER: Aye.

8 CHAIR HOCHSCHILD: And I vote aye as well. Item
9 12 passes four to zero. Thank you so much.

10 Before we get to Lead Commissioner Reports, I
11 want to just take a moment to reflect on the passing of
12 former Chair Bob Weisenmiller, which was very sad news that
13 we got quite unexpectedly last month.

14 And I just want to say I'm incredibly grateful to
15 Chair Weisenmiller, appreciative of his, you know,
16 remarkable trajectory throughout his career. And, you
17 know, he had a brilliant mind on energy.

18 And he also had quite a good sense of humor. I
19 remember early when I started and I was asking him
20 different people I should talk to, to get up to speed on
21 different issues. And he told me, oh yeah, go listen to
22 everything this guy says, you know, and some of it may even
23 be true. He had a very wry sense of humor.

24 And he came into the job at a time when our
25 agency was sort of in peril. We'd had a lot of struggle

1 with the ARRA money, getting that out. And there were
2 questions in the legislature about whether the Energy
3 Commission should even exist. And so Governor Brown
4 really, you know, brought him here to steady the ship. And
5 I know while Bob's not with us any longer, I think he'd be
6 really proud of how far we've come and how much we've done
7 and, you know, his amazing role in really bringing to
8 fruition the dream of what the Energy Commission was
9 intended to be.

10 And I remember my first month in the job, I asked
11 Bob, you know, for an introduction to Charlie Warren, who
12 wrote the law that created the Energy Commission. And Bob
13 connected us and went out to lunch. And that was just one
14 of the most inspiring visits I had ever had. And it
15 reminded me of the sort of bold DNA that's in the bones of
16 the Energy Commission to think big and solve big problems
17 and aim high.

18 And so anyway, Bob will be celebrated much more
19 thoroughly at our 50th anniversary symposium next month.
20 We're dedicating that symposium in his honor. And I've
21 invited his longtime friend and business partner, Dan
22 Richard, to come make some remarks about Bob's legacy.

23 But I wanted to just pause here and just go down
24 the line for any reflections on Bob's life and legacy.

25 Do you want to start here, Commissioner?

1 COMMISSIONER MCALLISTER: Yeah, please. Thanks,
2 Chair. I really appreciate having some time today. We
3 don't have to -- I think we'll have ample opportunity to
4 celebrate him at the 50th.

5 But this is very, very personal. It's both
6 professional and personal for me just remembering Bob. And
7 I was fortunate recently to take a vacation, do something
8 that's been on my bucket list for much of my life, which is
9 right around following the Tour de France and riding my
10 bike in some big, beautiful places. And Bob actually
11 passed away on Bastille Day. And then I happened to be in
12 France, you know, right after that for a week and a half
13 and just had a lot of opportunity to appreciate his role,
14 multiple roles, but just a lot of contemplative time,
15 sweating on the bike.

16 And, you know, he was just a giant. And he was
17 at the Energy Commission near its inception, you know, in
18 the early days as a senior manager, senior leader within
19 the Commission itself, and went off and had an incredible
20 career.

21 He was the most knowledgeable person on all
22 things energy that I've ever met. He had a photographic
23 memory. You know, we all have our own themes. And, you
24 know, one of four of us have our own sort of silos that
25 we're in. He remembered everything across all of them.

1 And, you know, remembered, you know, just page and verse
2 and chapter of every report that the Energy Commission went
3 out. He was just an incredible resource. And you'd think
4 that he would have, you know, sort of -- I mean, he could
5 be very intimidating in that way to some people. Like he
6 could be kind of, you know, a little bit imposing. I mean,
7 I think, you know, you all remember he was so smart. It
8 was like, oh my God, I really gotta be on my game. But he
9 did it.

10 I think what a lot of people didn't realize is
11 that he was so empathetic with everyone, but certainly with
12 his colleagues. And I just benefited so much from having
13 him in my life. He was an amazing mentor, arguably the
14 best mentor I've ever had, and enabled me to do all sorts
15 of things that I couldn't even have imagined. When I came,
16 he was supportive of my coming to the Commission, you know,
17 and sort of helped Governor Brown get there and support me
18 in the right ways when I first came here, you know, which
19 is a transition, as you all know.

20 So when I went through some very difficult
21 personal times, that's when I really saw Bob, his humanity
22 and his empathy just in full glory. He stepped in. He
23 intuitively knew what I needed, you know, all along the way
24 for a couple of years, you know, really, and what my family
25 needed. He remembered milestones in my family. We like

1 proactively said, hey, you know, it feels like you need
2 time, you know, like go, you know, do what you need to do,
3 which is not, you know, my natural state. And he just saw
4 it even more than I did myself.

5 So just, you know, to those who sort of thought
6 he was kind of inscrutable, it was based in a total posture
7 of love. And I loved Bob, I really did.

8 He wanted to spend more time in Europe. That's
9 one of the things he wanted to do with his retirement.
10 And, you know, his wife Cheryl passed away a few years
11 before. And so that sort of reoriented his life. And he
12 really wanted to, you know, spend more time in Italy, where
13 he had roots, and Greece, and I think was going to retire
14 there if he could. So it's such a bummer that, so tragic,
15 really, that he wasn't able to sort of execute those plans.

16 And he had really worked on his health, you know,
17 and looked great. I was able to spend a day with him at
18 the Energy and Resources Group's 50th anniversary in May,
19 you know, sat with him and we caught up pretty thoroughly,
20 and he looked good and he seemed like he was weathering
21 things well.

22 But that's another sort of -- I would just wrap
23 up by pointing out, you know, that the Energy Resources
24 Group at UC Berkeley, you know, kind of was in that. So
25 that same, like the CARB and CEC and, you know, energy

1 related, you know, responses to the oil shocks in the '70s,
2 and it was becoming institutionalized at UC Berkeley during
3 the course of his graduate studies in chemical engineering,
4 and he saw the value, he took classes. He could have
5 jumped over to get his PhD in energy resources.

6 He opted not to because, you know, it was kind of
7 an early program that didn't have -- nobody knew where it
8 was going or even if it was going to persist. And, you
9 know, it was the best chemical engineering, you know,
10 program in the country. So clearly he would stick there.
11 But he was so supportive across the years of ERG, which has
12 become, you know, a flagship program for energy studies in
13 a country, in the world.

14 So anyway, I just -- the world has really lost an
15 incredible human being and positive force, certainly
16 California and the clean energy transition, but just far,
17 far beyond that. Bob was just such a -- his ability to
18 maintain relationships, like I think that speaks volumes.
19 You know, like he texted anybody and everybody at all hours
20 with personal details, like wishing them luck on something.
21 or just he always had this machine making connections all
22 the time. And it's hard for me, it's still hard for me to
23 get my head around not getting texts from Bob anymore. I
24 kind of expect him to keep coming.

25 But anyway, I just am really grateful for Bob and

1 his legacy. So thanks for the opportunity.

2 CHAIR HOCHSCHILD: Thank you.

3 Vice Chair?

4 VICE CHAIR GUNDA: Yeah, Chair and Commissioner
5 McAllister, I think you kind of shared a lot of things
6 that -- and I didn't really have a lot of relationship with
7 Vice Chair Weisenmiller outside of me being staff. So I
8 kind of, I knew all of you.

9 COMMISSIONER MCALLISTER: Can I say something,
10 actually --

11 VICE CHAIR GUNDA: Yeah.

12 COMMISSIONER MCALLISTER: -- about that?

13 He was so protective of you. You may not know.
14 You may not know this, but when you first came to the
15 Commission, he sort of, he asked me to sort of like make
16 sure you were okay, you know? And he really wanted you to
17 succeed. And he knew the value that you were bringing to
18 the Commission. And I don't know if he ever communicated
19 that directly to you, but I imagine he probably did. But,
20 you know, it's just, it's amazing, really. He was so
21 sharing and generous in that way. And he gave his
22 knowledge, but he also just gave of his heart, you know?
23 It's really an example.

24 VICE CHAIR GUNDA: Yeah, I was going to share
25 that. I mean, I think I didn't really know him outside of

1 him being the Chair and the Lead Commissioner for our
2 division when I was in EAD. And so my kind of interactions
3 outside of the EAD was I knew all of you as just
4 Commissioners, Commissioner McAllister, you know,
5 Commissioner Hochschild. I was just excited. I was
6 starstruck, right, you know, meeting all of you and coming
7 here and working for all of you.

8 And I think Chair Weisenmiller, to your point,
9 was very intimidating, intimidating because you, you know,
10 you go into the meeting and, you know, you gave him a 30-
11 page briefing document and he remembers every page and
12 every word on the 30 pages. And you're like, I'm going to
13 now go to 27 page, you know, paragraph three, these two
14 words, why did you choose these two words? And I'm like,
15 okay. You know, so I think I just appreciated and really
16 admired how intelligent and smart and rigorous he was. And

17 I think I was going to close off by saying when I
18 got the Commissioner role, you gave me his phone number so
19 I can call him and just let him know and get his advice.
20 And he did tell me that he was really hoping that, you
21 know, I kind of succeed at CEC, and wished me all my luck
22 and gave me pointers on how to do this job. So I just
23 really appreciate.

24 And I think you both really summarized it. And
25 to me, it's, you know, an amazing human being. And I think

1 I saw him as he was retiring, his loss in his life, you
2 know, with his wife and his help. It was hard to see what
3 he was going through. And, yeah, I feel a loss. And
4 hopefully we can continue to celebrate him.

5 CHAIR HOCHSCHILD: Thank you.

6 CHAIR HOCHSCHILD: Commissioner Skinner?

7 COMMISSIONER SKINNER: Thank you. While I would
8 call it more of an acquaintance of Chair Weisenmiller, I
9 did not have a relationship with him, for example,
10 Commissioner McAllister that you did, or even yours, Vice
11 Chair. But I would interact with him a good deal while I
12 was in the legislature, given that he was Chair of the
13 Commission and I carried some legislation that affected the
14 Commission. And they were always very, very productive and
15 positive interactions.

16 I would also run into him. And he lived in
17 Berkeley like I do. But where I was amazed to run into
18 him, but this does reflect Commissioner McAllister's
19 comments about his real love for and interest in his
20 ancestral roots in Italy, I ran into him in Italy twice.
21 Yeah. And he would be on different study tours, and it was
22 fascinating, his knowledge of the things that he was
23 studying in those study tours.

24 So while you speak of his incredible depth and
25 energy, he also did, in Florentine art, for example,

1 different Italian Renaissance art issues, so he definitely
2 will be missed.

3 CHAIR HOCHSCHILD: Thank you.

4 With that, let's get into Lead Commissioner and
5 Presiding Member Reports.

6 Commissioner McAllister?

7 COMMISSIONER MCALLISTER: I think, actually, I
8 mostly wanted to talk about Bob.

9 So I think that I did want to just point out that
10 there's a lot of amazing just advance what's happening. I
11 want to give kudos to both the RREDI Division for just
12 cranking through the implementation of the building
13 decarbonization programs, you know, both the state funded
14 programs and the federal funded programs. There are plenty
15 of challenges with those programs as you might imagine.
16 And we think the funding is safe, but the process is not,
17 you know, as maybe straightforward as it once was, just
18 given the cuts in staff at Department of Energy and just
19 the details of that, sort of the impacts of some of that
20 uncertainty. But the trains are running.

21 And I just want to give the team, you know, Deana
22 and Jen, Miriam, Savi, the whole team at the RREDI
23 Division, kudos for keeping everything running. A good
24 workshop the other day on the pay for performance component
25 of the HOMES Program, one of the federally-funded programs.

1 So, you know, we're hopeful that that will bear some fruit
2 and sort of stimulate the market for home energy upgrades
3 and retrofits electrification projects.

4 And then also the Efficiency Division, also
5 dealing with a fair amount of uncertainty. Also, we think
6 the funds from -- the workforce training compliance funds,
7 we think they're still flowing. And so staff is doing a
8 great job, I think, preparing those programs and moving
9 them forward to the extent they can, given the uncertainty.
10 And then also even the legislative kind of action, this
11 session has also kind of caused the Efficiency Division,
12 particularly Standards Branch, the Building Standards
13 Branch to have to pivot a little bit and which they're
14 doing so in very fluidly and effectively, I think.

15 So just kudos to the team, both those teams in
16 those two divisions.

17 But I was on, as I said, I was on vacation for a
18 chunk of the time between last business meeting and now, so
19 getting back into it, and going to Mexico this evening for
20 an event down in Ensenada, trying to keep those cross-
21 border relationships vital.

22 CHAIR HOCHSCHILD: Well, speaking of cross-border
23 relationships, I want to just read an update from our
24 friend and colleague, Commissioner Gallardo, who is in
25 Africa, where she's representing the Energy Commission on a

1 delegation led by Transportation Secretary Toks Omishakin,
2 focused on establishing partnerships, particularly with
3 Kenya and Nigeria around climate and the economy.

4 In Kenya yesterday, she met with the President,
5 Dr. William Ruto, who is eager to partner on clean energy.
6 She said Kenya is now at 93 percent clean energy and aiming
7 for 100 percent in the next couple of years, focusing on
8 geothermal, solar and storage. And today she's in Nigeria
9 leading this delegation to meet with the Minister of Power
10 to discuss their transition to clean energy. Nigeria is
11 seeking to reach net zero by 2060 and at least 80 percent
12 renewables by 2050. Both countries are interested in e-
13 mobility, energy efficiency and increasing access for rural
14 communities.

15 So that's her readout.

16 So, Vice Chair, over to you.

17 VICE CHAIR GUNDA: Yeah. Thank you. I will keep
18 it short.

19 Just want to begin by, since the last business
20 meeting, we had the CEH (phonetic) Awards. So I just want
21 to thank our executive office and the entire team for
22 putting those awards together. And I also have big thanks
23 to all the staff and congratulations to everybody who won.

24 Also want to note, I think Armand, we had, you
25 know, his retirement party on the same day of the CEH

1 Awards. You know, he's been, you know, somebody who was
2 visible in promoting a lot of -- I think for me, he is such
3 a good cheerleader for the Energy Commission. And I think
4 we'll miss him as well.

5 Between the last business meeting and this, we've
6 had a couple of IEPR workshops, one on the clean firm
7 resources as it pertains to 423. Thanks to staff. I think
8 much of the discussion there was the value proposition of
9 the clean firm resources and the various technologies and
10 what should be considered as we move forward.

11 The second hyper was around the forecasting and
12 the energization needs. Thanks to Commissioner McAllister
13 on both of them. I think we both had a lot of discussions,
14 both on those IEPRs, but also being participating in some
15 demand flex conversations at various places. So really
16 fruitful conversations around the demand flexibility and
17 how to frame the conversation, so really excited about
18 that. And thanks to all the staff.

19 Third, just on reliability, I think the grid has
20 been looking pretty good up until now. You know, we have a
21 couple more months to go here. September is usually our
22 tightest month. But as of now, the RA looks good, you
23 know, the showings are good. The temperature seems, you
24 know, about -- yeah, go ahead.

25 COMMISSIONER MCALLISTER: So have you seen any

1 analysis or asked for any analysis, gotten any that -- just
2 sort of comparing so far this summer? It's been a
3 relatively mild summer; right? And so kind of where are we
4 in the sort of the, you know, standard deviation, I guess,
5 of weather for this year and how much that's helped us?

6 VICE CHAIR GUNDA: We're constantly coming below
7 one and two.

8 COMMISSIONER MCALLISTER: Yeah.

9 VICE CHAIR GUNDA: And we haven't really come
10 close to the audit requirements yet on the grid, even with
11 the last heat wave. We've had a couple of incidents with
12 fire being close to transmission but nothing acute.
13 Overall, it seems to be pretty moderate. You know, again,
14 I'm an optimist, I tend to be optimistic, but going into
15 September, things are looking okay. So I just want to flag
16 that again. That did not happen in vacuum. There's a lot
17 of interagency staff working super hard to make sure that
18 the grid is reliable.

19 And finally, on petroleum, much of our time has
20 been meeting, going to legislative meetings and different
21 conferences to provide insight into the letter, the
22 response letter we wrote to the governor and the framing of
23 the mid-transition. So we've been at a lot of conferences.
24 I've been traveling a lot.

25 And lastly, I want to just call out Vanike

1 (phonetic), who is in the back right there. He's a new
2 intern in our office from UC Davis. Excited to have him.
3 And we'll introduce him more formally next business
4 meeting.

5 So thank you.

6 CHAIR HOCHSCHILD: Thanks.

7 CHAIR HOCHSCHILD: Commissioner Skinner?

8 Thanks. It was lovely to attend the staff awards
9 event. So kudos to all the staff who received awards. And
10 my appreciation for the staff involved in putting it on
11 because it was quite a to-do but I'm sure very uplifting
12 for the friends and family and the staff themselves and, of
13 course, for me as an attendee.

14 Over the past month, have been collaborating a
15 lot with our sister agencies on developing recommendations
16 in response to the governor's zero-emission vehicle
17 executive order. And that response is due this week.
18 There were listening sessions that the Air Resources Board
19 organized in Fresno, Sacramento, and Long Beach. And there
20 was also a virtual one. There were also lots of
21 collaborations just between the agencies. And then
22 internally, the CEC, FTD staff, we did a deep dive into
23 what are some of the things that we could do to really move
24 the needle to keep our acquisitions, Californians
25 acquisitions of zero-emission vehicles on track, given that

1 there's lots of efforts to try to derail us.

2 So there was a lot of good work done in this
3 month around that, over this past month rather. And
4 there's going to be a press release with a broad overview
5 of some of the recommendations that will probably go out
6 this week.

7 We got some good input when I attended UC Davis's
8 Institute of Transportation Studies biannual conference in
9 Asilomar, where the large cross section of ZEV ecosystem
10 folks were there, I mean, whether it was OEMs or charging
11 folks or researchers, advocates, you name it, and many of
12 us, including our Vice Chair.

13 I also got to go on a tour of a -- CEC did not
14 provide a direct grant to this facility, but funded its
15 technologies application in some other, and that is the
16 Bellwether Coffee. And Bellwether Coffee has developed an
17 all-electric coffee bean roaster, that is, as I mentioned,
18 electric, ventless, no gas lines, and compact. So it can
19 be put right in a café, so a cafe that wants to roast their
20 beans directly, and it does not have to -- you know, it's
21 automated. And it's very efficient. It requires about the
22 same level of electricity as a commercial espresso maker.

23 And through our Food Production Improvement
24 Program, the FPIP, we funded two companies, Red Bay Coffee
25 and Heirloom Coffee, that were some of the first companies

1 to acquire this technology, and in fact, go off gas for
2 their coffee bean roasting process. So it was very, very
3 impressive.

4 We also held today, and I say we meaning FTD held
5 today, the -- well, it's probably the Administrative Law
6 Office that really coordinated it, but it was the hearing
7 for our charger reliability regulations, because they're
8 now in their final process. So they're in the AOL's hands,
9 and that hearing was held today. The public -- or excuse
10 me, the written comments were all due by yesterday, but
11 today's virtual hearing enabled additional verbal comments.
12 And so those will be assembled, and we'll see if there's
13 any revisions we have to make, or whether the regulations
14 can proceed as is.

15 And that's what's been going on.

16 CHAIR HOCHSCHILD: That's great. Okay. I will
17 clean up here. Bellwether Coffee is a great tour. I
18 recommend it for folks who haven't seen it yet.

19 So a couple updates. First of all, tomorrow, I'm
20 doing a visit to Gonzaga Wind in Gilroy, which will be the
21 largest terrestrial wind turbines I've ever seen. Most of
22 the wind turbines you see driving around California are one
23 and a half megawatts, maybe a megawatt. These are, I
24 think, just under five megawatts.

25 And, you know, this is -- one of the things

1 that's happening as we're advancing technology is you get
2 to be able to do these repowers. And typically, when you
3 do these, you can, you know, more than triple the energy
4 production and actually have fewer turbines, which is one
5 of the things that's happening across the state with these
6 wind repowers. So I've never seen a wind turbine that size
7 before, going down with my chief of staff to see that.

8 A couple other updates I want to share. We are
9 going to be awarding this \$25 million for a new battery
10 hub. We heard today from these non-lithium chemistries,
11 there's an awardee who's getting this for really advanced
12 lithium. And that will be happening this fall. So really
13 excited to do this as sort of a shared resource for all the
14 other innovators in the space to actually be able to share
15 some resources. And I just want to thank Cammy Peterson,
16 in particular, who has been wonderful on that.

17 Last week, I attended the Tribal Energy Summit,
18 which is something that our formal tribal advisor, former
19 Tribal Advisor Tom Gates, helped get going. It's funded
20 and supported organized by all the investor-owned
21 utilities, but huge turnout from all the tribes. I was
22 there with Commissioner Houck, Commissioner Gallardo,
23 Sierra Graves, and so on.

24 They had about 20 cutting edge kind of new types
25 of electric service vehicles that you could drive and try.

1 So I got to drive the country's first all-electric garbage
2 truck and loved it. It was a lot of fun. So just -- but
3 everything from electric street sweepers to delivery vans
4 and so on. And so that was a great event.

5 And, again, just our tribal work has been
6 extraordinary. We've now funded at CEC in excess of \$130
7 million for 35 different Native American tribes in
8 California and more to come.

9 Yesterday, I was at the EPRI Summit in San Diego
10 with all the utility CEOs, really focused on AI. And so by
11 some estimates, data centers and AI are going to constitute
12 half of global electric demand by mid-century. And even
13 that could be low, You know, it's interesting, a lot of it
14 depends on whether quantum computing actually comes to
15 fruition or not. If it does, that will deliver a lot of
16 energy savings. If not, it's just going to be a huge, huge
17 part of our load. And we got to plan for that.

18 And the Vice Chair and I were speaking yesterday.
19 We only have like a gigawatt of data center load in the
20 state now, but ramping up fast and, you know, it could be a
21 real hockey stick. So monitoring that closely and got to,
22 you know, make sure we're building as much flexibility as
23 we can.

24 I will stop there. And then let's go, if we
25 could, to Item 14, Executive Director's Report.

1 EXECUTIVE DIRECTOR BOHAN: No report, but I
2 thought I'd just offer a quick observation about Bob, as
3 well.

4 I don't think I've met any expert that was as
5 much of an expert in their field of expertise as Bob
6 Weisenmiller. Rob Oglesby and I used to joke that he'd
7 wake up in the morning thinking about energy. He'd go
8 through his day thinking about energy. He'd go to sleep at
9 night, dream about energy, and then repeat, you know, the
10 next day.

11 I took it as a personal mission to bring issues
12 to him in energy that he'd never heard of. And after six
13 or seven tries, unsuccessful, I gave up. But he was just a
14 giant and then always very willing to share his time then
15 on topics that I thought I'd stump him on. And then he
16 would wax eloquent for quite some time about those.

17 So we'll miss him.

18 CHAIR HOCHSCHILD: Well, thank you, Drew.
19 Appreciate you sharing that.

20 Let's go to Item 15, Public Advisors Report.

21 MS. BADIE: Thank you. I just want to announce
22 that this Friday, August 15th, there's going to be a
23 meeting of the CEC-CPUC Disadvantaged Communities Advisory
24 Group, also called DACAG. It's going to be hybrid via
25 Zoom. And then we'll have an in-person location upstairs

1 in this building.

2 On the agenda will be a presentation on SCE's
3 proposed pilot related to the CPUC Environmental and Social
4 Justice Pilot Study Plan for Risk Assessment Mitigation
5 phase. And also DACAG will take the time to thank previous
6 DACAG Member Stephanie Chen for her service.

7 And that concludes my report.

8 CHAIR HOCHSCHILD: Let's go to Item 16, Chief
9 Counsel's Report.

10 MR. RANCHOD: Thank you, Chair. I have a brief
11 report, the purpose of which is to welcome three members of
12 your Legal Team who started with the Chief Counsel's Office
13 last month and already are helping us develop pragmatic
14 solutions-oriented legal advice for the agency.

15 Barbara Borkowski, an Attorney III in our
16 Advisory and Compliance Unit, she most recently worked at a
17 renewable energy development company that she co-founded.
18 She's also served on Orange County's Assessment Appeals
19 Board, and previously worked as a Special Assistant U.S.
20 Attorney here in Sacramento.

21 Christina Adkins (phonetic) is a Legal Assistant
22 in our Administrative Unit. She joined CEC from the
23 private sector where she recently supported attorneys at a
24 law firm that specialized in workers' compensation law.
25 She previously also worked in the Court Systems Criminal

1 Division.

2 And finally, James Strange is an Attorney III in
3 our Transactions Unit. He joined CEC from the U.S.
4 Department of Energy where he was a senior advisor in the
5 Office of Energy Justice and Equity and led the agency's
6 committee that oversaw community benefits plan
7 implementation. James also previously served as a Director
8 and Associate General Counsel at the Center for Sustainable
9 Energy.

10 We're lucky to have all three of them. Welcome,
11 Barbara, Christina, and James. That concludes my report.

12 CHAIR HOCHSCHILD: Great. Thank you. And feel
13 free to have those guys come introduce themselves in
14 person. And congrats on getting all the talent. I'd love
15 to see that.

16 I think, with that, we're adjourned. Thanks,
17 everybody.

18 (The meeting adjourned at 2:41 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 18th day of September, 2025.



MARTHA L. NELSON, CERT**367

CERTIFICATE OF TRANSCRIBER

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

And I further certify that I am not of counsel or attorney for either or any of the parties to said hearing nor in any way interested in the outcome of the cause named in said caption.

I certify that the foregoing is a correct transcript, to the best of my ability, from the electronic sound recording of the proceedings in the above-entitled matter.



MARTHA L. NELSON, CERT**367

September 18, 2025