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# BUSINESS MEETING BEFORE THE CALIFORNIA ENERGY COMMISSION

In the matter of:

Business Meeting

Docket No. 25-BUSMTG-01

TUESDAY, JANUARY 21, 2025

)

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

Reported by: Martha Nelson

### APPEARANCES

### COMMISSIONERS

David Hochschild, Chair

Siva Gunda, Vice Chair

Andrew McAllister, Commissioner

Noemi Gallardo, Commissioner

Nancy Skinner, Commissioner

### STAFF

Jennifer Martin-Gallardo, Deputy Executive Director

Allan Ward, Chief Counsel

Nick Fugate, Lead Forecaster, Energy Assessments Division, Demand Analysis Branch

Elizabeth Butler, Contract and Grant Manager, Efficiency Division, Administration

Jason Tancher, Energy Efficiency Research Division, Technology Innovation & Entrepreneurship Branch

Lin Planchard, Utilities Engineer, Energy Research and Development Division, Energy Storage & Integration

Mike Gravely, Energy Systems & Transportation Branch

Sarah Sweet, CFI Agreement Manager Fuels and Transportation Division Federal Opportunities and Investments Unit

#### PUBLIC ADVISOR

Mona Badie

### APPEARANCES

ALSO PRESENT

Wade Crowfoot

Delphine Hou, Deputy Director, Statewide Energy Office, California Department of Water Resources

Molly Sterkel, California Public Utilities Commission Mark Rothleder, California Independent System Operators Cristy Sanada, California Independent System Operator Jimmy O'Dea, Caltrans

# PUBLIC COMMENT

George Lee, IXP

Somasundaram Essakiappan, Trane Technologies

Omkar Ghatpande, National Renewable Energy Laboratory

Mark Olson, Pacific Steel

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1 P R O C E D I N G S 2 10:06 a.m. TUESDAY, JANUARY 21, 2025 3 (Whereupon an introduction video is played and not 4 5 transcribed.) CHAIR HOCHSCHILD: Well, good morning and welcome 6 7 friends. I'm David Hochschild, Chair of the California Energy Commission. Today is January 21. I call this 8 9 meeting to order. 10 Joining me are Vice Chair Gunda, Commissioner 11 McAllister, Commissioner Gallardo, and Commissioner 12 Skinner. We have a quorum. 13 Let's please stand for the Pledge of Allegiance. 14 (The Pledge of Allegiance is read.) 15 CHAIR HOCHSCHILD: Thank you. We will begin by taking public comment and then 16 17 move on to agency announcements. MS. BADIE: Good morning, everyone. My name is 18 Mona Badie. I'm the Public Advisor for the California 19 20 Energy Commission. 21 The Commission welcomes public comment at its 2.2 business meetings. There will be multiple opportunities 23 for public comment today. 2.4 This initial public comment period is open for 25 any items on the agenda, including informational or non-

voting items. Each voting item on the agenda will have its 1 2 own dedicated public comment period as well. 3 And now for the instructions of how to notify us 4 if you'd like to comment. If you're joining us in the 5 room, we're asking folks to use the QR codes. They're posted in the back of the room. You can also visit Dorothy 6 at the public advisors table in the back for assistance 7 with that. And if you're joining us on Zoom, you're going 8 9 to use the raise hand feature on your screen. It looks 10 like an open palm. And if you're joining by phone, you're 11 going to press star nine. That'll let us know you'd like 12 to comment. 13 And I'm just giving that a moment to see if we've 14 got any raised hands. 15 Alright. I'm not seeing any raised hands for Item 1. 16 17 Back to you, Chair. 18 CHAIR HOCHSCHILD: Thank you, Mona. 19 I just wanted to begin by extending our thoughts 20 and sympathies to the good people of Los Angeles who have 21 been dealing with a devastating fire this last week, and 2.2 yet another indication of the climate challenge that we 23 face and the importance of our work to advance climate 24 solutions and resiliency. You know, well over 10,000 homes 25 have been lost, and so we're going to be dealing with a

number of ripple effects with that as the city tries to
 rebuild, including for these big events, the upcoming
 Olympics and the World Cup and so forth.

And so this is going to be a major, major focus for the state in supporting Southern California and making the rest of the state more resilient from these types of events as we press forward with our climate agenda. So I wanted to begin with that.

9 And then secondly, I wanted to just take a moment 10 to personally acknowledge the extraordinary leadership of 11 Commissioner Monahan whose term ended last week. You know, 12 this job is something like a relay race and you pass the 13 baton, and she passed it at full speed. What she was able 14 to get done during her tenure is remarkable, including 15 supporting the extension for another billion dollars for all the ZEV infrastructure that we're doing and a number of 16 17 the efficiency standards and charger reliability work and 18 any number of other engagements, including the focus on 19 equity. We have, I think somewhere in the neighborhood of 20 60 percent of our investments in EV charging infrastructure are in disadvantaged communities, and we did the first ever 21 2.2 funding for tribal EV charging.

You know, her work has had an incredible impact and she's been a delightful colleague and she's hired amazing people.

I want to especially thank her staff, Jeffrey
 Liu, Sarah Lim, Patricia Carlos, and everyone else on her
 team.

And so Commissioner Skinner, you're inheriting an office and a shop that's in excellent shape because of her, and really excited to see what you do to build on that foundation and bring all the talents you have.

8 And maybe I just would pause here and just offer
9 an opportunity for any further comments about Patty.
10 Anything else you would say?

Yeah, Commissioner McAllister?

11

12 COMMISSIONER MCALLISTER: Yeah, I just really 13 appreciate your thoughtful words for Commissioner Monahan, 14 and I couldn't agree more. And I learned a ton from her, 15 and just as much -- I mean, obviously a lot about 16 transportation as subject matter because she is such a 17 knowledgeable, just one of the most knowledgeable people in 18 that area, just accomplished a ton, as you say.

But even more so, just her way of leading and just her thoughtfulness and kindness and support, particularly for staff, just -- she always found a way to spread credit around and acknowledge staff, and encourage and support staff, and particularly women staff, who I just think, you know, face unique challenges. And she was just such a lodestone for them, you know, for all the staff.

1 And I saw her as that as well, just learned so 2 much, just her comportment and the way that she exists in 3 the world. I just really have so much respect and love for 4 her. And I've told her that many times, as I'm sure that 5 you all have too as well. So anyway, we'll miss her, but also already 6 7 working very closely with Commissioner Skinner. So the LA fires, you know, are just tragic and heartbreaking in a lot 8 9 of ways, and we just want to be there and make sure that 10 we're supporting those communities. 11 So it's a long haul. I've run programs to 12 support fire victims, you know, folks who've been burned 13 out in the past, and it really is a marathon. And so we 14 just have to be there at every turn, you know, at every 15 street crossing to help them get across. 16 So really, yeah, just want to express that 17 commitment as well. 18 Thanks. CHAIR HOCHSCHILD: Vice Chair? 19 20 VICE CHAIR GUNDA: Thank you, Chair. 21 I also want to just take a moment to just share 2.2 my gratitude to Commissioner Monahan. I think, you know, 23 both you and Commissioner McAllister and Secretary Crowfoot 24 have captured some of her legacy, but I just want to share 25 from my perspective, just, you know, uplift, you know, her

1 ability to bring competence with care and grace, and her 2 ability to kind of bring all of us together in some 3 difficult conversations we've had, and just want to send 4 her love and send her gratitude for all that she has done 5 for our agency and for the state.

And again, I agree with you, she has a tremendous team assembled under her. So I look forward to working with them.

9 And want to take a minute and say, Commissioner 10 Skinner, welcome. It will be hard for me to not say 11 Senator Skinner in all the hearings, but just welcome on 12 board and look forward to working with you.

And as the Chair mentioned, I had the opportunity to work with you before at UC Davis, and it was an absolute honor, and I look forward to supporting you and learning from you on this job.

And finally, on just the LA fires, just want to uplift, you know, the sacrifices of the frontline workers, you know, the firefighters who are putting their life, you know, up there to help people -- which they do so often do in California -- and, you know, just remind our agency on the incredible task we have and the work and the importance of work we have to do.

So with that, happy New Year and welcome
everybody back to the first business meeting of the year.

1

Chair, back to you.

CHAIR HOCHSCHILD: Commissioner Gallardo? COMMISSIONER GALLARDO: Buenos dias, good morning, everyone. So I won't talk too long because I'll get sentimental really quickly when I'm talking about Commissioner Monahan.

7 Really grateful to her for not just being such a great mentor to so many of us, I think she empowered --8 9 I'll say women, and others, but I have heard from a lot of 10 women here at the Energy Commission who gained so much from 11 watching Patty work, and watching how Patty interacted, and 12 watching how Patty led. And so I am one of those people 13 who will be eternally grateful to Patty for all that she 14 did as a mentor, and then also for just being such a great 15 friend. I think I also learned how to be a better human being, having Patty around. And so I am feeling sad at 16 17 losing Patty.

18 And at the same time, I'm very excited and eager to gain (audio cuts out) -- sorry, so I'm just saying I'm 19 20 excited to gain a new mentor and colleague and peer in 21 Nancy Skinner. I too will struggle with not saying Senator 2.2 Skinner, you've been such a great leader. But Commissioner 23 Skinner, I'm excited for you to be with us, and then to 24 have you at my side, and I will do my best to try to be a 25 mentor to you as best as I can.

1

Thank you.

2 CHAIR HOCHSCHILD: Okay, before we go to you for 3 some opening remarks, Commissioner Skinner, I wanted to 4 just share with the Commission meeting what we just shared 5 at your swearing in a few moments ago.

6 We are thrilled to have you and your enormous 7 suite of talents and experience join the CEC family.

Commissioner Skinner has authored over 130 laws 8 for the State of California, which is everything from our 9 10 Prop 39 enabling legislation that let us give out one and a 11 half billion dollars in grants for energy efficiency 12 upgrades to schools, to the SB-49 load flex, to the energy 13 storage landmark law, to the Carbon Capture Market Creation 14 law, to all sorts of other things that are good for the 15 state, including letting student athletes finally get paid 16 and allowing for two free meals for public school students. 17 Her career has reached, you know, everywhere from the 18 Berkeley City Council to working with cities and states and 19 countries all over the world on climate solutions, and then 20 to the State Assembly and the State Senate, and now finally 21 here after her term ended just recently in the State 2.2 Senate.

23 So we are thrilled to welcome you. You have 24 already sort of been an honorary commissioner for a long 25 time, so now it's official, and just overjoyed to welcome

1 you.

2 So with that, we'd welcome a few remarks. 3 COMMISSIONER SKINNER: Thank you very much, 4 Chair, and thank you fellow commissioners for your warm, 5 warm welcomes.

And if I may, I would like to add my thanks to 6 7 Commissioner Monahan for her service at the CEC for the past five years. And Commissioner Monahan, as the Chair 8 9 and other of my colleagues noted, she accomplished much 10 during her tenure, and I especially want to thank her for 11 her efforts to advocate and support and implement 12 consistent funding for clean transportation in California 13 and the strong programs that were developed under her 14 leadership that will continue and will help ensure that 15 California moves equitably to the zero-emission 16 transportation future that our state has embarked upon.

17 And, you know, there -- I think the Chair 18 mentioned in my swearing-in comments about her role in 19 advancing transformative zero-emission infrastructure 20 through the Ports Collaborative, and of course helping to 21 facilitate the opening of the Tesla Charger Network to all 2.2 EVs. And so as I begin to dive into my duties as a 23 Commissioner, I look forward to building on those 24 accomplishments, as well as bringing my own expertise to 25 further advance zero-emission, clean transportation, and

1 clean, renewable energy in California so that we can, as we 2 have set ourselves to -- and when I say we, I mean the 3 entire state of California -- we have set ourselves on the 4 path to be, and we are, but to continue to be the leaders 5 in tackling this climate crisis.

And as I mentioned earlier, we just experienced 6 7 the hottest year on record. And back when I was doing work in leading the Cities for Climate Protection campaign -- so 8 9 we're talking the mid-90s -- we would talk to the cities 10 and say, you know, this X year -- it's in the 90s -- had 11 just beat records, and then the following year would beat 12 records, and then the following year would beat records. 13 Then there might be one or two years that didn't.

14 But since that time, every year almost has beaten 15 records until we're in the place now where we are 16 experiencing some of the most serious and deleterious 17 impacts of this climate being hotter. And while, you know, 18 the difficulty of this issue is you cannot point to any 19 particular single event, you can certainly point to that 20 the conditions that a hotter climate create lend themselves 21 to, whether it's droughts or the type of heat that causes -2.2 - the Santa Ana winds don't happen on cold days.

I grew up in SoCal. The Santa Ana winds are a feature of heat causing those updrafts. So to experience what we just did -- and they're not over in the fires in

1 LA, and we, without rain in the forecast, and with winds 2 continuing, we could see more. I hope not. But we have an 3 obligation to do our very best, even though we know that 4 California is a drop in the bucket globally in terms of 5 emissions, but our -- the work that we do sets the stage and sets the market signals and demonstrates that these 6 7 things are achievable, and others then can follow. So that's really what I take as our mantra. 8

9 And I mentioned in the swearing in, I also will 10 constantly be thinking about what my mentor, Art Rosenfeld, 11 Former Commissioner, what would he do and how would he 12 approach this? So I want to give my thanks to the 13 excellent onboarding that I've received from the Human 14 Resources Office, the Executive Office, IT, the Fuels and 15 Transportation Division, Commissioner Monahan's staff, who've been supporting me fully. I so appreciate the warm 16 17 welcome from the whole CEC family.

18 It has been wonderful to meet so many of you 19 already, and I look forward to meeting all of you and all 20 the stakeholders involved, which of course, that's 21 impossible, but I do my best, and working with all of you. 22 So I appreciate this. Thank you.

CHAIR HOCHSCHILD: Let's give her a warm welcome.
 So we will be considering for approval today over
 \$22 million in grants and investments.

1 And before we move on to the agenda, are there 2 any other agency announcements? Commissioner Gallardo? Yeah. 3 4 COMMISSIONER GALLARDO: I do have a fun 5 announcement. If we can go to that slide. So every year, we celebrate the Clean Energy Hall 6 7 of Fame Awards. Commissioner Skinner has been a part of them. If you recall, Commissioner, it's a great way, the 8 9 awards are a great way for us to acknowledge our other 10 partners working throughout the state who are at the local 11 level doing this work to get to an 100 percent clean energy 12 future. And it is a wonderful event, so even though it's 13 in December, I'm letting you know now so you can put it on 14 your calendar that it is happening. December 4th is the 15 date of this year's Clean Energy Hall of Fame Awards. 16 And we are also letting you know early that this 17 is happening because we are opening nominations sooner than 18 we usually do. So nominations are going to be due by April 19 4th. They are opening February 3rd, I believe, and that --20 more information will be on our website. So I will keep 21 reminding everybody to submit nominations and also to put 2.2 the event on their calendar. 23 That's all. Thank you. 24 CHAIR HOCHSCHILD: Right. Any other questions? 25 Commissioner McAllister, please.

1 COMMISSIONER MCALLISTER: Just again, I'm going 2 to do this each month until March. March 11th and 12th is 3 the California Electrification Summit. So put that on your 4 calendars. it will be in this room and a couple of rooms 5 upstairs. And registration, I believe, is open. The 6 agenda is fantastic. Two days.

I want to just give kudos to my Chief of Staff,
Brian Early, for running a herd on all of those -- all the
details that come with building an event of this magnitude.
So thanks to him. And yeah, really looking forward to the
second iteration of the Electrification Summit. The first
one back in October of 23 was a huge success, and we're
really going to stand on those successes to go even higher.

So really appreciate everyone for your attention.Hopefully we can see you there.

16 Thanks.

17 CHAIR HOCHSCHILD: Any other announcements? 18 Okay. With that, we'll move to the consent item 19 number three.

Are there any public comments on Item 3? MS. BADIE: Thank you, Chair. The Commission welcomes public comment on Item 3 at this time. This is our consent agenda. If you're in the room with us, we're asking folks to use the QR code to let us know. And if you're on Zoom, you'll use the raise hand feature on your

1 screen or star nine if joining by phone. That'll let us 2 know you'd like to comment on this item. 3 Alright. I'm not seeing anyone in the room, so 4 I'm going to transition to Zoom. 5 George Lee, I'm going to open your line. You'll unmute on your end. We're asking for comments to be two 6 7 minutes or less, and there'll be a timer on your screen. And just a quick reminder: it helps us if you can 8 9 please spell your name before you begin your remarks. 10 MR. LEE: My name is George Lee, G-E-O-R-G-E 11 L-E-E, and I'm here representing IXP. Good morning, commissioners and staff. IXP is a California-based 12 13 technology company specializing in innovative mobile and 14 semi-permanent charging solutions that bridge the gap 15 between today's infrastructure limitations and the growing demand for EV adoption. 16 17 We are deeply honored to be selected as a 18 proposed awardee for the CEC grid-supportive transportation electrification grant, Item 3J, on today's consent 19 20 calendar. This opportunity will allow us to deliver 21 scalable, flexible, and impactful charging solutions to 2.2 meet California's ambitious goals for EV adoption and 23 equitable access to clean energy. Our project focuses on 24 deploying mobile charging sites across diverse locations, 25 including disadvantaged communities where permanent EV

infrastructure is challenging due to grid constraints,
 cost, or site limitations.

3 By enabling level 2 and DC fast chargers in these 4 areas, we aim to support EV adoption while deferring costly 5 grid upgrades. We are especially proud that this initiative aligns with the state's broader goals, including 6 7 vehicle grid integration, renewable energy utilization, and fostering equity in transportation electrification. 8 9 Through partnerships with organizations like County of Los 10 Angeles, UC San Diego, and local utilities, we aim to 11 create a lasting impact that serves both the underserved 12 communities and California's climate objectives. 13 We commend CEC staff for designing a grant 14 program that truly supports innovative solutions for 15 sustainable mobility. 16 Thank you for this incredible opportunity to 17 contribute to a cleaner, greener future. 18 MS. BADIE: Thank you for your comment, and that 19 concludes public comment for Item 3. 20 Back to you, Chair. 21 CHAIR HOCHSCHILD: Okay. I believe we have some 2.2 recusals from Commissioner McAllister and Commissioner 23 Gallardo. 24 Would you like to go first, Commissioner Gallardo? 25

1 COMMISSIONER GALLARDO: Absolutely. 2 So on Item 3C, I will recuse myself from any 3 discussion, consideration, or vote on the proposed 4 resolution approving a sponsorship agreement that provides 5 membership for staff, plus other benefits with women of renewable industries and sustainable energy. 6 7 I serve on the Board of Women of Renewable Industries and Sustainable Energy. In that role, I do not 8 9 receive any compensation in any form, including 10 reimbursements or per diem for expenses. So there is no financial interest in which there would be a conflict of 11 12 interest under the Political Reform Act or Government Code 13 Section 1090. However, in an abundance of caution, I will 14 15 recuse myself to avoid any perception of a conflict of 16 interest. 17 COMMISSIONER MCALLISTER: Alright. 18 On Item 3F, I will recuse myself from any 19 discussion, consideration, or vote on the proposed 20 resolution approving a membership agreement with the 21 Western Interstate Energy Board. 2.2 I currently chair the board of the Western 23 Interstate Energy Board and am reimbursed for travel 24 expenses related to some travel associated with 25 participating on the board.

1 Pursuant to the Government Code, I'm disclosing 2 this conflict and recuse myself from the discussion and 3 vote on this item so that a quorum of Commission may 4 deliberate and decide in my absence. 5 CHAIR HOCHSCHILD: Okay, do you leave the room? 6 Yeah, or --7 MS. BADIE: If you'd want to vote on all the items with the complete dais, and then we'll have 8 9 Commissioner Gallardo leave, and you'll vote on 3C, and 10 then she'll return, and then you'll have Commissioner McAllister leave. 11 12 CHAIR HOCHSCHILD: Just for expediency's sake, 13 would it be okay to just have both of them leave? We'll 14 just vote on the complete -- it will be fine? 15 Okay. Do you mind just stepping out for entirety 16 of Item 3? Okay, so why don't we take up item -- once 17 they're out of the room, why don't we take up Item 3 in its 18 entirety. 19 (Commissioners Gallardo and McAllister exit the 20 hearing room.) CHAIR HOCHSCHILD: If there's -- unless there's 21 2.2 any Commissioner discussion, I'd entertain a motion from 23 Vice Chair Gunda. 2.4 VICE CHAIR GUNDA: I move Item 3. 25 CHAIR HOCHSCHILD: Is there a second from

Commissioner Skinner? 1 2 COMMISSIONER SKINNER: Second. 3 CHAIR HOCHSCHILD: All in favor say aye. Vice Chair Gunda? 4 5 VICE CHAIR GUNDA: Aye. CHAIR HOCHSCHILD: Vice Chair Skinner? 6 7 COMMISSIONER SKINNER: Ave. CHAIR HOCHSCHILD: And I vote ave as well. 8 9 Item 3 passes 3-0 with Commissioner McAllister 10 and Commissioner Gallardo abstaining. 11 You can notify them. 12 Thank you. Next, we will turn to Item 4, which is the information item, Department of Water Resources, an 13 14 update on strategic reliability reserve investments. 15 And welcome to Delphine. Good to see you again. 16 MS. HOU: Thank you very much. 17 CHAIR HOCHSCHILD: Good morning. 18 Happy New Year. 19 MS. HOU: Good morning. Good morning, Chair, 20 Vice Chair, Commissioners. Welcome, Commissioner Skinner. 21 Happy New Year. Thank you for welcoming me back. 2.2 My name is Delphine Hou, the Deputy Director for 23 Statewide Energy in the Department of Water Resources, and 24 I'm here to provide an update on the Electricity Supplies 25 Strategic Reliability Reserve Program that we lovingly call

1 ESSRRP.

2 Next slide, please. 3 Alright. As background, Assembly Bill 205 4 created the state's strategic reliability reserve, and of 5 the three parts of the reserve, the CEC oversees two, focused on demand response and distributed resources, while 6 7 the Department of Water Resources Program is focused on grid-connected resources. So ESSRRP acts as an insurance 8 9 policy and safeguards the statewide electric grid during 10 extreme and or combined events, such as heat events, 11 wildfires, droughts, all the things that we're very 12 unfortunately seeing in Southern California driven by 13 climate change. And the program also supports California's 14 transition to a clean energy future. 15 And I know we've struggled through a couple of 16 difficult years on the electricity side, so I know we're 17 glad we're able to provide the support that we have in the 18 past.

19

Next slide, please.

20 So per AB 205, DWR is required to provide regular 21 updates at the Energy Commission meeting for investments 22 made and under consideration. Moreover, the legislation 23 requires the attendance of the California Public Utilities 24 Commission and the California Independent System Operator. 25 And I do believe a representative from both is

1 logged on here online today. So thank you for your 2 participation as well. 3 Today is the 10th update presented to the Energy 4 Commission, and we expect the next update to occur in the 5 second guarter of 2025. Next slide, please. 6 7 Also, as a reminder, there are five distinct types of projects that we invest in. So the first one is 8 9 the extension of the operating life of generating 10 facilities planned for retirement. So that was the ability 11 to contract with those resources so that we can populate 12 the reserve quickly. 13 But also, we do have the ability to actually 14 construct new temporary emergency generators of five 15 megawatts or more. We have been doing that. It's a 16 slightly longer, slower pathway, but that is also in the 17 program as well. 18 And moving on, kind of looking at our future, the 19 third is generation facilities using clean, zero emission 20 fuel technology of any size. 21 And then the fourth is new energy storage systems 2.2 of 20 megawatts or more that are capable of discharging for 23 at least two hours. 2.4 And lastly, the fifth is to reimburse electrical 25 corporations for the value of imports that were produced

1 above market costs and in excess of procurement 2 authorizations and requirements that were already in place.

3 So those are the five main eligible types of4 projects.

5

Next slide, please.

6 So this investment table we've shown before, 7 these are the total investments that DWR has, including the 8 investments under the ESSERT program starting for 2022.

9 And you can really see the evolution here in the 10 table. We started off very small with the emergency and 11 temporary gas fired generators. And then in order to fill 12 the program very quickly, we relied on a lot of firm energy 13 imports. And then in the emergency days of 2022, when we 14 had that massive heat wave in September, we did have 15 temporary diesel generators that were relied on for that 16 summer. We very quickly sunset that program. So even 17 though we could have had it in 2023, DWR declined. We were 18 trying to push towards cleaner resources. So we started building out more of the emergency and temporary natural 19 20 gas fired resources, continued to lean on foreign imports.

But as you can see, by 2024, we've transitioned away from diesel and imports and now are relying on instate temporary and emergency natural gas fired generators and or contracts.

25

So in that 24, 25 time span in 2024, we did have

1 up to 3,100 megawatts. And the reason it's an up to is 2 that there were some ups and downs in the program. So we 3 had new generators coming online, finally completed 4 construction and getting their online dates coming out of 5 the long, tail of the pandemic and various delays. But we also had some downs. We had, for example, an expiration of 6 7 a waiver that would have allowed us to use an interconnection at a higher level. 8

9 So there were some ups and downs in 2024, but we 10 had up to 3,100 last year.

Starting in 2025, we are steady state at 3,079. So those are both emergency temporary generators that are short-start and long-start resources that are available to respond to the California Independent System Operator and other balancing authorities as needed.

I do want to highlight that with all of these resources, they're operated on an emergency basis, which means the default for these resources is off. They're not running 24/7. They're not available 24/7, the way a resource under resource adequacy would be required to have that must rougher obligation.

22 So these resources are turned on in response to 23 extreme events or required maintenance and testing. And 24 for short start units, they have kind of an automatic 25 trigger that if one of the major California balancing

authorities has an energy emergency alert watch or higher,
 these resources automatically deploy onto the grid to help
 the system.

For long start resources, because they are longer start, they need operator direction. That lies with the California Independent System Operator to direct their response. So the operators there are in charge of the longer start units.

9 So looking forward, DWR currently doesn't have 10 any new resources under contract, but we remain open to 11 opportunities. I think we're finally coming out, as I 12 said, the long tail of the pandemic. And like the rest of the industry, we've found it difficult to move forward with 13 14 some projects due to increased costs, lack of 15 interconnection, very high demand for non-emitting 16 technologies like battery storage. But we also wanted to 17 prioritize our investments that don't compete with 18 facilities that load serving entities have already planned 19 for.

Lastly, I want to thank and acknowledge the considerable cooperation and coordination with the Energy Commission, your staff, the amazing folks at the Public Utilities Commission, California Independent System Operator. As always, very, very strong partners in developing and maintaining the state's strategic

reliability reserve. I appreciate all of the efforts that 1 2 have gone in over the years for this to be a successful 3 joint effort. 4 And lastly, I do want to show my appreciation for 5 Commissioner Monahan, who I've worked with ever since I was at the California Independent System Operator for many 6 7 years, and then at DWR. So we will definitely miss her presence, but we're thrilled to have Commissioner Skinner 8 9 with us. 10 So thank you very much. That's my presentation. 11 CHAIR HOCHSCHILD: Thank you. 12 Anything else? Okay. 13 I believe we have both Molly Sterkel from PUC and 14 Mark Rothleder on the line. 15 Do you want to begin, Molly, with any additional 16 comments? 17 MS. STERKEL: I don't have any further comments. 18 I'm here for any questions. 19 And thank you very much to Delphine for carrying 20 the presentation. 21 CHAIR HOCHSCHILD: Okay. And is -- Mona, is Mark 2.2 on from CAISO? 23 Yeah, Mark, good morning. Anything else you'd like to add? 24 25 MR. ROTHLEDER: No, same here.

Just really express appreciation for CDWR's efforts over the summer. And we're here to answer any questions.

4 CHAIR HOCHSCHILD: Alright. With that, we'll go 5 to Commissioner discussions, starting with the Vice Chair.

6

7

VICE CHAIR GUNDA: Thank you, Chair. Thank you, Director Hou, for your presentation.

I don't have any questions for Director Hou, but 8 9 I just wanted to take a minute to thank you for your 10 leadership at DWR with the Strategic Reserve, but also 11 helping bridge DWR and their competence with the larger 12 energy community, more so since you started there and not 13 just with the Strategic Reserve, but also looking into all 14 the demand flexibility that's possible, load reduction 15 that's possible with the State Water Project and all those 16 resources that you're able to so seamlessly bring into the 17 discussion. So just wanted to thank you and your entire 18 team for the tremendous work.

One of the things that Director Hou kind of noted, touched on: last year was very hot. And we had not a single flex alert. And thanks to the tremendous work that PUC, CAISO, and DWR and CEC colleagues have been able to do, along with the Governor's Office and the many resources within the Governor's Office and GO-Biz to keep the team together, be very proactive, to respond

1 strategically to all these moments. 2 So one thing I'm really grateful for is having 3 those resources, those \$3,000 resources, to be able to use 4 them as a backstop when necessary to support the grid. 5 So thanks again for all your work and look forward to your April 8th. 6 7 As I was leaving the staff position, I was really worried that I don't get to see you often at the JASC 8 9 meetings, but this is how we make it happen. 10 So thank you. 11 MS. HOU: Thank you, Vice Chair. 12 CHAIR HOCHSCHILD: Thank you, Delphine. 13 Are there any other questions? 14 Yeah, Commissioner Gallardo, please. 15 COMMISSIONER GALLARDO: More of a clarification 16 than a question. 17 So Delphine, thank you so much for being here. Ι 18 had told you I was not going to be at this business meeting 19 and ask for a briefing. So I really did not think I was 20 going to be here. So I wanted to clarify that. I didn't 21 want you to feel misled. And I really appreciate the 2.2 briefing. 23 Earlier we acknowledged also the victims and 24 firefighters that are being impacted by the LA fires and 25 wanted to acknowledge you too. We talked a little bit

1 about that, how you and your colleagues are being affected.
2 And so thank you for that work as well and wanted to
3 acknowledge that and our other state peers who are working
4 directly on the fire situation.

5 CHAIR HOCHSCHILD: Commissioner Skinner?
6 COMMISSIONER SKINNER: Thank you, Chair.
7 Thank you, Delphine, for the presentation.

And perhaps in the next quarterly update, I know that some of the strategic reserves, what we rely on for this, are in the LA area and might get an update on whether any of them were impacted by the fires. So that's one request.

13 And I also wanted to just thank the fact that we 14 have such a strategic reserve, because as other 15 commissioners have referenced, we -- you know, we've had 16 some very high demand electricity days because of high 17 heat, and yet we've not experienced the power outages that 18 one might have expected. And I appreciate that you 19 specified that these are not -- these reserves are not used 20 24/7. And that there was a lot of concern, obviously, for 21 some, since some of them are fossil-based and might have 2.2 been retired, that they, you know -- our continued use of 23 them is impacting communities that disproportionately 24 experience pollution.

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But I think that as far as we've observed,

1 they've been being used wisely. And as you pointed out, 2 they're only utilized when they are needed. So I 3 appreciate that and hope we get to the point where perhaps 4 we don't have to be as reliable -- relying on them. 5 MS. HOU: Absolutely. Thank you, Commissioner Skinner. 6 7 I can report that currently none of our resources are impacted by the fires, but we will continue to monitor 8 9 that in an update again at the next meeting. 10 Thank you. 11 CHAIR HOCHSCHILD: Thank you, Delphine. 12 Unless there's other questions. Thank you so 13 much. With that, we'll turn to Item 5, resolution 14 15 adopting California energy demand 2024 through 2040 16 forecast. 17 Welcome, Nick Fugate. 18 MR. FUGATE: Good morning, commissioners. I'm 19 Nick Fugate with the Energy Assessments Division, and I'm 20 here today to propose adoption of the California Energy 21 Demand Forecast Update for years 2024 to 2040. 2.2 This update is specific to end-user electricity 23 demand. It covers annual electricity consumption, sales, 24 and peak demand for planning areas across the state, as 25 well as hourly electricity demand for planning areas within

1 the California ISO balancing area. I have a brief 2 presentation covering the purpose of this forecast, a recap 3 of our process this year, notable changes we've made this 4 cycle, as well as some high-level results. 5 So, next slide. 6 Demand forecasting is one of the Energy

7 Commission's charter responsibilities. As such, the 8 forecast has been described in detail within the 2024 9 integrated energy policy report.

Importantly, the forecast is also a critical planning tool. It lays a foundation for a number of statesponsored planning and procurement efforts, including transmission and distribution planning, integrated resource planning, resource adequacy, and other activities aimed at keeping California's energy clean, affordable, and reliable.

17 There's an agreement between leadership at the 18 Energy Commission, the Public Utilities Commission, and the 19 California ISO, referred to as the Single Forecast Set 20 Agreement, which describes the current commitments at each 21 organization to use a particular combination of forecast 2.2 products for particular planning purposes. And for the 23 sake of transparency, that agreement is updated every year 24 and memorialized within the forecast chapter of the IEPR 25 report.

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Next slide, please.

2 The CEC seeks input into its forecast development 3 through multiple venues. In 2024, we held five IEPR 4 workshops. These workshops focused on areas of significant 5 load growth, forecast methodology updates, and uses of the forecast and system planning. We also had a results 6 7 workshop specific to our load modifier projections, and then on December 12th, we had our final workshop covering 8 9 the overall forecast results.

All the materials presented at these workshops, as well as event recordings, are available on the IEPR website.

And in addition to workshops, we held four meetings of the Demand Analysis Working Group, or DAWG, to review proposed methodological updates, inputs and assumptions, and preliminary results. The DAWG forum allows CEC forecast staff to engage with stakeholders in a less formal setting and something of an ad hoc basis.

And these meetings are still public facing,
though, and the materials presented are available on the
Demand Analysis Working Group website.

22 We also routinely engage with the Joint Agency 23 Steering Committee. This is a working group intended to 24 promote coordination between the CEC's forecast and its 25 dependent processes at the CPC and the California ISO. And

this collaboration assures that the forecast is continually 1 2 evolving to meet emerging planning needs. 3 Next slide, please. 4 So here I'm highlighting just some notable 5 updates that we made this past year. During the 2024 IEPR 6 cycle, we refreshed our economic and demographic drivers 7 with new projections from Moody's Analytics and Department of Finance. We refreshed our additional achievable fuel 8 9 substitution scenarios, improving technology 10 characterization and updating compliance schedules for 11 CARB's Zero Emission Appliance Standard. 12 Our transportation electricity demand forecast also received updates, notably improved characterization of 13 14 energy demand through use of a newly developed travel 15 model. 16 Our PV forecast and generation forecasts -- I'm 17 sorry, PV capacity forecast and generation forecasts were 18 also updated -- lowered in response to a staff analysis of 19 metered system data as well as stakeholder feedback and 20 additional information related to technology cost and 21 market potential. We re-estimated our base hourly 2.2 consumption profiles incorporating these revised PV 23 estimates. 24 New this cycle, we have data centers captured as 25 a distinct load modifier. This analysis was initiated

following our IEPR workshop on major load growth areas, and
 data centers were featured prominently in that discussion.

We relied heavily on data provided voluntarily by utilities, and so I should thank staff from PG&E, Southern California Edison, Silicon Valley Power, Palo Alto, SMUD, and San Jose for providing what information they could related to known data center projects.

8 And new to this cycle, we have scenarios for both 9 PV and storage, and so for the first time, our planning 10 forecast and local reliability scenarios feature different 11 levels of distributed generation.

All of these changes were included in the forecast results presented at our December 12th workshop, and since then we have made a few more changes in response to feedback that we received.

16 So we received some additional information from 17 PG&E and SCE related to data centers. We incorporated this 18 additional information into a higher growth scenario, which 19 is being used now for our local reliability forecasts. We 20 also reviewed new information on interconnection activity 21 to date for systems -- behind-the-meter PV systems that 2.2 were approved under NEM 2.0, Net Energy Metering 2.0. This 23 increased the amount of PV we now understand to be 24 interconnected in 2024, which is the first year of the 25 forecast.

And finally, we corrected an error in our hourly local reliability forecast, which had not appropriately reflected the lower PV and storage scenario. The final forecast forms incorporating even these most recent changes have all been docketed, as has the notice of availability, which we included as part of the document materials for this agenda item.

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Next slide, please.

9 I have just a couple charts showing high-level 10 results for the 2024 IEPR forecast. This plot compares our 11 forecast of statewide electricity sales across two 12 vintages, the 2023 IEPR versus the 2024 update being 13 considered today for adoption, and across two scenarios, 14 the planning forecast and the local reliability scenario.

15 Our scenario framework is similar to last cycle's, with the planning scenario representing mid-range 16 17 assumptions suitable for system planning -- system-level 18 planning, things like system RA or the CPC's integrated 19 resource plan. And then the local reliability scenario, 20 which errs on the side of higher electric load, so less 21 efficiency, less behind-the-meter PV, more fuel 2.2 substitution, and now more data center load. And this is 23 used for local studies. And again, the use cases are 24 documented in detail within the text of the IEPR report. 25 Examining this chart, we see that our 2024 IEPR

1 forecast begins from a point just slightly lower than the 2 previous forecast. Growth over the forecast horizon is 3 significantly increased over the previous forecast. This 4 is the result of increased growth in demographic drivers, 5 less load reduction on account of both the lower PV adoption forecast and the lower PV generation --6 7 CHAIR HOCHSCHILD: I'm sorry, Nick, that 3.2 8 percent is the average annual growth? 9 MR. FUGATE: It's compound. 10 CHAIR HOCHSCHILD: Compound annual growth from now to 2040. 11 12 Just looking back, the (indiscernible) was like what, probably 1 percent? I mean, there's the looking --13 MR. FUGATE: Previous forecast? 14 15 CHAIR HOCHSCHILD: Yes. 16 MR. FUGATE: Previous forecast was still up -- I 17 believe it was still up over 2 percent. 18 MR. FUGATE: It's significantly higher, the lower 19 PV and the higher data center. 20 CHAIR HOCHSCHILD: So it's basically like a 50 21 percent increase in the forecast. Okay, that's helpful. 2.2 Thanks. 23 Well, from 2 percent to 3.2 percent. 24 Am I understanding that right? 25 MR. FUGATE: The growth rate?

1 CHAIR HOCHSCHILD: Yeah. 2 MR. FUGATE: Yeah. 3 CHAIR HOCHSCHILD: Yeah. Okay. 4 In absolute terms, it's not 50 MR. FUGATE: 5 percent, but yeah, but in terms of the growth rates. 6 So the spread between planning and local 7 reliability scenarios is slightly increased this cycle. And relative to last, and that's reflecting the lower PV 8 9 scenario and the higher data center scenario in the local 10 reliability scenario. 11 As we just discussed, the planning forecast grows 12 at 3.2 percent annually, reaching more than 411 terawatt 13 hours by 2040. 14 Next slide. 15 So this plot shows our annual peak forecast for the CAISO control area and for the same vintages and 16 17 scenarios I discussed on the previous slide. Both the 18 planning and local reliability scenarios begin from a 19 weather normalized peak estimate of 2024 peak load, which is lower than our previous forecast value. 20 21 And the story is similar to the sales forecast. 2.2 The peak forecast is driven by our underlying annual 23 consumption forecast, which is higher than the last 24 cycle's, particularly with the new data center load. And 25 the annual peak grows at 2.3 percent annually in the

1 planning scenario, so not as quite as fast as the sales 2 forecast. And this is because much of the growth in sales 3 is coming from transportation electrification, which is 4 largely assumed to be happening outside the peak window. 5 CAISO peak is projected to reach nearly 67 gigawatts by 2040. 6 7 And we can move to the final slide. So what I've shown today are high-level results. 8 9 I want to reiterate that the various components of the 10 forecast were presented and discussed in much greater 11 detail at our various workshops throughout the year, and 12 are documented within the text of the IEPR. 13 Adoption of the forecast today will ensure that 14 dependent planning processes can proceed without critical 15 delays. 16 And so I will recommend adoption of the forecast 17 today, and also staff's recommendation that the forecast is 18 not a project under CEQA, or in the alternative if deemed 19 to be a project that it is exempt. 20 And I would like to pause at this point and 21 invite -- we have Cristy Sanada from our sister agency from 2.2 CAISO here to speak. So I'd like to invite her up to --23 CHAIR HOCHSCHILD: Great. 24 MR. FUGATE: -- speak at this point. 25 CHAIR HOCHSCHILD: Good morning.

MS. SANADA: Hi, good morning, commissioners. So my name is Cristy Sanada with the California Independent System Operator or CAISO. I'm here today to speak in support of the CEC adopting the 2024 California Energy Demand Forecast Update.

I want to start by expressing CAISO's thanks to CEC staff that works on the forecast year round. I said this last year, but the demand forecast is becoming increasingly complex. At that point, I didn't quite have data centers on my mind yet. So I just want to reemphasize the increasing complexity of the demand forecast.

12 And over the years, the CEC has incorporated the impacts of electrification of various sectors of the 13 14 economy, the impacts of behind the meter resources. And 15 this year, there was a focus on the impacts of large loads 16 with a focus on data centers. To tackle these challenges, 17 the CAISO is ever appreciative that we have such capable 18 and easy to work with staff at the CEC working on this very important product year round. 19

The CEC's forecast is a critical input into state electric system planning processes, including the CAISO's annual transmission planning process. Our transmission planning process relies on the CEC's forecast and local regulatory authority resource plans to identify both transmission and non-transmission solutions required to

1 reliably connect new loads and generation. To support the 2 timely development of new grid infrastructure, the CAISO 3 must have sufficient lead time to study and identify 4 solutions that can support these new loads and generation.

5 So the CAISO really appreciates and supports several new elements and enhancements to the forecast this 6 7 cycle, and that includes updating behind-the-meter storage and solar assumptions based on new data from utilities and 8 9 the CPUC; enhancements to the hourly model, which address 10 feedback and questions from last year's forecast where the 11 CEC made some pretty significant updates to its hourly 12 model; and incorporating new loads into the forecast, in 13 particular with a focus on data centers.

Regarding the data center forecast, the CAISO supports the balance that the CEC struck this cycle, ensuring that these data center loads are captured in the forecast so that the downstream planning processes have ample time to plan for this new load growth while reflecting some uncertainty to account for risks that load may not materialize as stated.

21 So in closing, the CAISO supports the CEC 22 adopting the 2024 demand forecast update, and we look 23 forward to getting right into the next forecast cycle in 24 our continued collaboration with the CEC.

Thank you.

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1 CHAIR HOCHSCHILD: Thank you, Cristy. 2 With that, let's go to public comment on Item 5. 3 MS. BADIE: Thank you, Chair. 4 The Commission welcomes public comment on Item 5 5 at this time. If you're joining us in the room, we're asking 6 7 folks to use the QR code or visit the public advisor table. If you're joining on Zoom, please use the raise hand 8 9 feature on your screen, or star nine if joining us by 10 phone. That'll let us know you'd like to comment on this 11 item. 12 And I'm just giving that a moment. 13 Alright, we do not have any raised hands for this 14 item. 15 Back to you, Chair. 16 CHAIR HOCHSCHILD: Alright. Let's go to 17 commissioner discussion, starting with the Vice Chair. 18 VICE CHAIR GUNDA: Thank you, Chair. I just want to use up my in a comment for the 19 20 whole year. It's going to be a long one. 21 But I just want to start with just thanking the 2.2 fellow commissioners who spent a lot of time this year 23 working with the staff on making sure the forecast is 24 updated and reflects some of the policy goals of the state. 25 I cannot extend more gratitude to the IEPR team

for their continued work, and just want to take a minute to give a big thanks to the entire forecast team who contributed to the work. I cannot name every single person here, but definitely want to acknowledge some of the, you know, leadership, beginning with Nick Fugate, Lynn Marshall, Matthew Cooper, Chris Kowalik, Anne Fisher, Alex Lonsdale, and the entire DG forecasting team.

Also want to give a shout out to Jenny Chan on the sector modeling team, Quintin Gee, Andrew Freeman, and the transportation electrification team, Nick Janisch and the building electrification team, and as well as Nancy Tran, Julianne Alontave, and then Cam Nguyen, who prepared many of the data sets that go into the forecast.

Also want to extend my thanks to CAISO -- thanks, Cristy, for being here today -- CPUC colleagues, CARB and the IOUs and other stakeholders have provided critical feedback throughout the year.

18 CARB has taken time to review the updated fuel 19 substitution scenarios, which is important so they can 20 reflect some of the goals and the climate policies that 21 CARB is pursuing and working on.

A big thanks to CPUC for their increased collaboration across all forecast aspects, but especially on reviewing the PV and storage assumptions and results of the hourly forecast.

1 I want to thank and reiterate the thanks to the 2 five utilities who provided data center information: PG&E, 3 Southern California Edison, Silicon Valley Power, Palo 4 Alto, and City of San Jose. Their contribution in 5 providing data sets is really, really important as we think through how to forecast data center load in the state. 6 7 Every one of them was extremely generous on the time and huge help in updating the forecast component. 8

9 CAISO and other stakeholders who have provided 10 critical feedback throughout the year, and finally the 11 utilities who take time to review and provide their 12 feedback on the updated assumptions.

13 So again, a lot of thanks that go here, but I 14 just want to close by saying this forecast cycle, we 15 started off by thinking it's going to be a few updates. 16 You know, these years have become every year is a full 17 update.

And Nick, I cannot overstate the thanks to you for the tremendous work you've been doing in making sure all the input, but also the feedback that we get from the stakeholders is continually reflected in the forecast.

This is going to be really hard to get it right with the number of policy variations and uncertainties. As we think about clean electrons, clean molecules, and the electrification, it's just going to be really hard to get

1 this right. And it's important to have a coordinated view 2 across all the agencies on how best to, you know, complete 3 the forecast, because it has direct downstream impacts on 4 the IRP process, the transmission planning process, the 5 distribution planning process, and so many other processes. So I cannot overstate the importance of the 6 7 forecast and the tremendous work and contribution to the forecasting team. 8 9 With that gratitude, I look forward to voting for 10 adoption of the forecast. 11 CHAIR HOCHSCHILD: Great. 12 Other -- Commissioner McAllister? 13 COMMISSIONER MCALLISTER: Yeah, so Nick, I've 14 appreciated the team's just updates regularly on the 15 forecast and your openness to input and just really feel like I've been taken care of. It's a really, really 16 17 important topic to keep track of. And I know Vice Chair 18 Gunda does a great job of directing all your work, but just 19 wanted to say thanks to you and the staff. 20 I mean, especially when dealing, sort of pivoting 21 around, updating the analyses when necessary and doing 2.2 that, in addition to trying to capture these new trends and 23 data centers, there's so much volatility in the evolving 24 load. And just to Delphine's point, just to -- and to

25 Christy's point, it's a lot. It's complex and it gets more

complex every year. And just really, every year you seem 1 2 to rise to the occasion. 3 So I really appreciate the whole team. Thanks. 4 5 CHAIR HOCHSCHILD: Any other comments? Commissioner Gallardo? 6 7 COMMISSIONER GALLARDO: Nick, thank you so much for the presentation. Really appreciate it. 8 9 And I also want to thank you for all you've done. 10 And you're such a tremendous leader here. You have so much 11 institutional knowledge. 12 I'm hoping you're not planning on leaving the 13 Energy Commission anytime soon. We would lose so much. 14 During our briefing, we mentioned that at the 15 Energy Commission, we do the siting of power plants. We've 16 been working on small power plant exemptions. A lot of 17 those have been data centers, and so we have information 18 internally that you may be able to use. So I know we 19 talked about it, but it's just for visibility of fellow 20 commissioners wanted to mention it here. 21 No question, just a big thank you. 2.2 CHAIR HOCHSCHILD: Vice Chair -- sorry, 23 Commissioner Skinner please. 2.4 COMMISSIONER SKINNER: Thank you. 25 And appreciate the work that went into this. Ι

1 can only imagine it's very, very detailed to be able to 2 project, especially when we have these changes, like the 3 growth in data centers. 4 I wondered, we obviously made adjustments for 5 growth, not only in load, but also in peak, and I wondered how much of the growth in peak was due to data centers? 6 7 Do we have it broken down like that, or --MR. FUGATE: Yes, we do. So I apologize I don't 8 9 have the exact number handy. I can pull that up. 10 COMMISSIONER SKINNER: In a way, I should have 11 worded the question a bit differently. It was more -- is 12 it our data centers going to greatly affect our peak? Ι 13 mean, I appreciate that they do with load, but --14 MR. FUGATE: Yes. 15 So a significant amount of the peak growth is 16 coming from the additional data center load that we have 17 added this cycle. 18 Profile is relatively flat over the course of the 19 day. So we're just expecting that once these data centers 20 are online and fully operational, they could just be 21 running. 2.2 There's a bit of a temperature sensitivity, but 23 it's slight. So they will just be running during the peak window as well. 24 25 COMMISSIONER SKINNER: Okay.

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VICE CHAIR GUNDA: Yes.

2 Thanks, Commissioner Skinner. Thank you for that3 question.

I think a part of the work that we'll have to do this year is to continue to think about both in terms of the total capacity we anticipate reasonably in California, but to your point, the load shape, but also how we expect that to load to manifest over time.

You know, even for a single data center, what 9 10 staff have done this year through discussions with some of 11 the participating utilities assumed the load to come over 12 time. Even for a single data center, that was one. And some of the information that went into the forecast was 13 14 known load information from the utilities, and even for 15 that, there has to be some judgment done based on 16 historical precedent on how much haircut should we give 17 that.

But the overall point though is, it's a really big unknown. But what the joint agency team has settled on is that given the electrification load that we anticipate, even if we plan for a slightly higher data center growth, it would be okay given that those electrons will be used because it is about a downstream process.

One thing I just wanted to say, I just skipped on one line. You know, just want to thank the leadership,

Alicia, who's here of EAD, but also Heidi Javanbakht and 1 2 Jeremy Smith, who have been tremendous leadership addition 3 in EAD, and to President Reynolds and Commissioner Houk, 4 who have spent a lot of time this year on the forecast. 5 CHAIR HOCHSCHILD: I had one just higher level 6 question. 7 I had just asked the Vice Chair, looking back at our previous forecasts, how accurate have we been? He said 8 9 roughly in the three to 4 percent band, which is pretty 10 qood. 11 And obviously there's a lot you can't forecast, 12 who saw COVID coming, recession and so on. 13 But just in terms of our own learning curve about 14 taking lessons learned and our ability to get as accurate 15 as possible, I wonder if you could just speak to how we 16 approach that, and refining and trying to improve the 17 forecast and just the level of confidence we're -- it's a 18 little bit like predicting the weather, you know? 19 You're never going to have total visibility, but 20 we have gotten actually a lot better about that. 21 So I just wonder if you could speak to a little 2.2 bit how we're approaching improving the forecast accuracy. 23 MR. FUGATE: Sure. 24 So it's a little tricky to think about forecast 25 accuracy when you're thinking about a 20-year outlook.

So I don't have any plans to leave anytime soon, but I hope to be gone by the time we get to the end of this forecast horizon that we're talking about here.

4 So when you're looking at that sort of timescale, 5 the best we can do is we're trying to build in our best estimates of what the -- we're sort of blending a few 6 7 different approaches here, right? We develop a kind of baseline forecast that sort of takes what we know about 8 9 consumer behavior right now, right? Load responses to 10 things like the weather, things like demographic and 11 economic changes in demographic and economic activity.

12 So we can estimate those pretty well, right? And 13 so our near-term projections are usually pretty reasonable 14 and we can really try to dial that in.

15 But then once we are trying to anticipate 20 16 years out what fuel substitution impacts are going to be, 17 there's a lot of uncertainties there. And so a lot of that 18 process, we are, you know, constantly talking with the 19 users of our forecast. That's an important part of our process to understand what sort of assumptions are we all 20 21 comfortable planning to, what are the risks that we want to 2.2 try to mitigate, right?

23 So sometimes when we're building these scenarios, 24 we are thinking about, well, what assumptions -- if we plan 25 to a certain set of assumptions, we are running less risk

1 than if we plan to these sets of assumptions. So we're 2 always kind of thinking about it in terms of risks, right? And then as we sort of, you know, update or 3 4 forecast or recycle, we're constantly going back and revisiting, well, this is -- this is what we were assuming 5 how this might play out. This is what is actually 6 7 happening. We kind of reiterate or iterate on that. And with data center load, for example, this is a 8 9 new thing. So that is going to be a big one for us to look 10 at next year. We're examining all these -- all the data 11 that these utilities are giving us, making some discounts 12 that we think are reasonable in terms of realization rates. 13 And as we sort of progress to the next cycle, we will go 14 back and look at what actually materialized relative to 15 what we were projecting and sort of revisit those 16 assumptions. 17 CHAIR HOCHSCHILD: Yeah. Vice Chair? 18 19 VICE CHAIR GUNDA: Thank you, Chair, for that 20 question. 21 I think, you know, kind of couple of pieces that 2.2 I think about in terms of the needs of the forecast to be 23 accurate, and then what we have going for us in terms of 24 the quality of the forecast. 25 And the first thing is kind of, do we have a good

methodological approach to doing the forecast? And I think given how much stakeholder participation we have, I think the methodologies we use are generally pretty good and pretty state of the art, and they're constantly kind of being changed.

6 The difficulty though is the inputs. For 7 example, one of the things that, you know, we changed this 8 year was staff purchased this behind-the-PV, you know, 9 generation data set. For a long time, we had to use 10 simulation data. And then you're kind of baking that into 11 the forecast.

And I think this is the hidden cost of the forecast in terms of some of the dollars we need really comes from those data sets and importance of some of the research staff that we need to increase, to improve the overall methodology. I just want to frame that.

17 So what's going for us is really the stakeholder 18 input. Between CAISO, PUC, and us, we all have some level 19 of modeling expertise, and also the IOUs.

20 So one of the critical parts of the forecast is 21 the DAWG process, or the Demand Analysis Working Group, 22 where those results are constantly shared and worked on. 23 So I think that kind of gives us good, you know, quality of 24 results at the end.

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What I do want to say is that, as Nick pointed

1 out, the near-term, given how much focus goes on into some 2 of the assumptions, the near-term plans are pretty -- it's 3 not a big difference. So year-to-year, when we plan for 4 resource adequacy and reliability, we are pretty much 5 pretty good. But when you're thinking about 10, 20 years out, 6 7 these uncertainties around electrification growth or, you know, clean hydrogen or whatever that might be really 8 9 depends on what assumptions we're making. And every year, 10 you know, we try our best to have an agreement amongst 11 stakeholders about something we need to watch, given the 12 uncertainties. 13 CHAIR HOCHSCHILD: Helpful. 14 Unless there's other comments or questions, I 15 would entertain a motion from the Vice Chair on Item 5. 16 VICE CHAIR GUNDA: I move Item 5. 17 CHAIR HOCHSCHILD: Is there a second from Commissioner Skinner? 18 19 All in favor, say aye. 20 Vice Chair Gunda? 21 VICE CHAIR GUNDA: Aye. 2.2 CHAIR HOCHSCHILD: Commissioner Skinner? 23 COMMISSIONER SKINNER: Aye. CHAIR HOCHSCHILD: Commissioner Gallardo? 24 25 COMMISSIONER GALLARDO: Aye.

CHAIR HOCHSCHILD: And Commissioner McAllister? 1 2 COMMISSIONER MCALLISTER: Aye. 3 CHAIR HOCHSCHILD: And I vote aye as well. 4 Item 5 passes unanimously. 5 We'll turn now to Item 6, ADM Associates 6 Incorporated. 7 Good morning. 8 MS. BUTLER: Good morning. Good morning, Chair, 9 Vice Chair, and Commissioners. My name is Elizabeth 10 Butler, and I am the Contracting Grant Manager for the 11 Efficiency Division. 12 Today, I will be presenting Item 6. 13 This is a request to approve a \$5.5 million 14 contract with ADM Associates Incorporated to provide 15 technical support services for both the CEC's existing 16 benchmarking program and the implementation proceeding in 17 Senate Bill 48, also known as SB-48. 18 Next slide, please. 19 This two-year agreement will provide the 20 following benefits to Californians: support for climate, 21 equity, and energy goals, reduced carbon emissions, 2.2 improved energy efficiency, and increased stakeholder 23 involvement. 2.4 Next slide, please. California Public Resources Code Section 25402.10 25

authorizes the Building Energy Benchmarking Program, which requires the owners of commercial and multifamily residential buildings meeting certain parameters to report energy usage and building characteristic information annually to the state.

6 SB-48 requires the CEC, in consultation with the 7 California Air Resources Board, the California Public 8 Utilities Commission, and the Department of Housing and 9 Community Development to develop a strategy for using 10 benchmarking data to track and manage the energy usage and 11 emissions of greenhouse gases of covered buildings in order 12 to achieve the state's goals, targets, and standards.

13 To implement SB-48, the CEC plans to undertake a 14 comprehensive process, including a series of public 15 workshops and meetings to engage a range of stakeholders 16 and provide opportunities for both interactive and written 17 The CEC will produce at least one draft building comments. 18 performance strategy report and will consider additional 19 stakeholder input and feedback to generate a final version. 20 The CEC must adopt the final report on or before July 1st 21 of 2026 and then submit it to the legislature on or before 2.2 August 1st of 2026.

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The \$5.5 million in funding for this contract was authorized for this purpose in Assembly Bill 102, also

1 known as AB-102, or the Budget Act of 2023. 2 ADM Associates Incorporated has committed \$30,000 3 in match funds for this agreement. Work on this agreement 4 will provide technical support services for the CEC's 5 existing benchmarking program and the implementation proceeding in SB-48. 6 7 Benchmarking support will focus -- will focus on -- sorry -- process and compliance improvements, while SB-8 9 48 implementation support will focus on stakeholder 10 engagement and practical demonstration analyses of real 11 building performance. 12 Next slide, please. 13 Staff recommends approval of the agreement with 14 ADM Associates Incorporated, as well as adoption of staff 15 determination that this action is exempt from CEQA. Thank you for your consideration. I am available 16 17 for questions. 18 CHAIR HOCHSCHILD: Thank you, Elizabeth. 19 Let's go to public comment on Item 6. 20 MS. BADIE: Thank you. 21 The Commission welcomes public comment on Item 6 2.2 at this time. 23 If you're joining us in the room, we're asking 24 folks to use the QR code or to visit the public advisor 25 table in the back of the room. And if you're joining on

1 Zoom, you'll use the raised hand feature on your screen. 2 It looks like an open palm or star nine if you're joining 3 by phone. 4 And I'm just giving that a moment. 5 Alight. I'm not seeing any raised hands for this 6 item. 7 Back to you, Chair. CHAIR HOCHSCHILD: Alright. 8 9 Let's go to Commission discussions, starting with Commissioner McAllister. 10 11 COMMISSIONER MCALLISTER: Well, thanks. 12 I really appreciate the presentation and very 13 much support this item. The combination of benchmarking and road 14 15 management standards -- I mean, I'm sorry, and building 16 performance standards is sort of a very natural dovetail. 17 And we've had the benchmarking program for a 18 number of years, working on sort of getting compliance with 19 that, you know, up to be very high to create a good data 20 foundation for building performance work. The building 21 performance work, I think, is a real generational kind of 2.2 shift. It's like a really moving from sort of data 23 collection in the form of benchmarking analysis that, you 24 know, the building stock, et cetera, into actually, you 25 know, building specific recommendations for how to improve

performance to reduce emissions in line with our state goals.

3

You know, so that's a decadal effort.

4 And so, Senator Becker, I think, really hit the 5 The process, the development of the bill was, I mark. think, really exemplary and it landed in a place to ask us 6 7 to do a considered assessment of what building performance standards -- or what a building performance program ought 8 9 to look like, and how we can ensure that it works well with 10 local governments, with building owners, building 11 operators, you know, tenants in those largely commercial, 12 also multifamily buildings. So giving us a little runway to convene and to develop a good plan for building 13 14 performance standards, I think, is really, I think, the 15 right first step.

And, you know, we have been very engaged with the national conversation. You know, the White House convened the Building Performance Standard Coalition. And, you know, probably that goes on hiatus for a few years here, but I think the local governments -- cities largely, but also a few states -- are going to really help each other learn how to do building performance standards.

And so, I think the report, the development of the plan, I think, is a good platform for incorporating learning from other jurisdictions.

1 And so, this is really a good long-term effort. 2 And I'm super supportive of this contract, obviously, to 3 get the benchmarking data sort of really assembled and in 4 shape to support a very substantive building performance 5 effort over the coming, you know, years and decades, 6 because that's what's going to take a lot of money to pump 7 into existing buildings to make sure that their performance -- that's the hardest part of the whole buildings, you 8 9 know, emissions reduction enterprise. 10 And so, this is really an essential step to move, 11 you know, boldly in that direction. And I think we're up 12 to the task. 13 So, I really appreciate this. 14 CHAIR HOCHSCHILD: Great. 15 Unless there's other discussion, I would welcome 16 a motion on Item 6 or -- anything else you want to add? 17 Okay. I welcome a motion on Item 6 from Commissioner 18 McAllister. 19 20 COMMISSIONER MCALLISTER: I move Item 6. 21 CHAIR HOCHSCHILD: Is there a second from the 2.2 Vice Chair? VICE CHAIR GUNDA: Second. 23 24 CHAIR HOCHSCHILD: All in favor say aye. Commissioner McAllister? 25

1 COMMISSIONER MCALLISTER: Aye. 2 CHAIR HOCHSCHILD: Vice Chair Gunda? VICE CHAIR GUNDA: Aye. 3 CHAIR HOCHSCHILD: Commissioner Gallardo? 4 5 COMMISSIONER GALLARDO: Ave. CHAIR HOCHSCHILD: Commissioner Skinner? 6 7 CHAIR HOCHSCHILD: And I vote aye as well. Item 6 passes unanimously. Thank you, Elizabeth. 8 9 COMMISSIONER MCALLISTER: Thanks Elizabeth. 10 CHAIR HOCHSCHILD: We'll turn now to Item 7, 11 Lincus, and I welcome Jason Tancher to present. 12 MR. TANCHER: Good morning, Chair, Vice Chair, 13 Commissioners, and welcome, Commissioner Skinner. My name 14 is Jason Tancher, and I work in the Energy Research and 15 Development Division. Today, I'm presenting one recommended award from the DC HVAC Nanogrid Module 16 17 Development Demonstration Solicitation. Next slide. 18 19 The purpose of this solicitation was to develop and demonstrate a self-contained DC-powered HVAC heat pump 20 21 module that integrates solar PV and energy storage. The 2.2 anticipated outcomes include reducing building dependency 23 on grid electricity, enhancing the energy efficiency of 24 HVAC equipment operating on DC power, lowering barriers and 25 expanding access to solar and heat pump technologies, and

1 generating new business and manufacturing opportunities.

If successful, this effort has the potential to transform energy use in California by delivering modular, highly efficient HVAC systems tailored for decentralized energy networks.

A total of four projects were potentially awarded funding, and three of these are expected to be discussed at a future business meeting.

9

Next slide, please.

10 These projects aim to significantly reduce 11 greenhouse gas emissions and air pollutants by reducing 12 peak summer electricity consumption and replacing fossil 13 fuel consumption for space heating. This project's 14 outcomes could establish a replicable framework catalyzing 15 widespread adoption of advanced efficient energy systems. 16 There's a large California market for commercial rooftop 17 units and for residential units that use packaged HVAC 18 systems.

19

Next slide, please.

The proposed agreement with Lincus, an energy consultant firm practicing California in Arizona since 22 2003, focuses on developing an innovative DC-powered HVAC 23 system that connects directly to a DC bus, integrates 24 seamlessly with solar PV and battery storage, and 25 eliminates conversion losses and expensive electrical

service panel upgrades. The system also incorporates 1 2 thermal energy storage to efficiently utilize excess solar 3 PV. 4 The project will include both laboratory testing 5 and field demonstrations, simulating diverse climate zones, grid conditions, storage configurations, and PV scenarios. 6 7 By replicating real-world operations, this approach ensures the collection of comprehensive data on 8 9 cost, energy savings, return on investment, and additional 10 non-energy benefits, all under both controlled and 11 practical conditions. 12 Lincus has also partnered with the National 13 Renewable Energy Laboratory that is providing \$600,000 in 14 DOE funds; Trane, the HVAC equipment manufacturer, also 15 providing \$244,000 match for developing the technology. 16 Next slide, please. 17 Staff recommends approval of this grant agreement 18 and adoption of staff's determination that the project is 19 exempt from CEQA. Several of the project partners are 20 interested in making public comment. 21 Thank you for your consideration. I'm available 2.2 for any questions. 23 CHAIR HOCHSCHILD: Thank you, Jason. 24 Let's go to public comment on Item 7. 25 MS. BADIE: Thank you, Chair.

1 The Commission welcomes public comment on Item 7 2 at this time. 3 If you're joining us in the room, you're going to 4 use the QR code posted in the back of the room or visit the 5 public advisor table. And if you're joining on Zoom, you're going to use the raise hand feature that's on your 6 7 screen or star 9 if joining by phone. 8 Sorry for the light disruption. 9 CHAIR HOCHSCHILD: The mood lighting for comment on Item 7 is fantastic. 10 11 COMMISSIONER MCALLISTER: Yeah. Yeah. 12 MS. BADIE: Alright. Let me check the room. 13 Okay, we don't have anyone in the room, so I'm 14 going to transition to Zoom. 15 Alright Somasundaram Essakiappan, I'm apologies 16 if I pronounced your name incorrectly, I'm going to open 17 your line for public comment at this time. And if you 18 could please spell your name for the record. 19 We're asking for comments to be two minutes or 20 less. There's going to be a timer on the screen. 21 MR. ESSAKIAPPAN: Hello. Good morning. 2.2 Can you hear me? 23 MS. BADIE: Yes. 2.4 MR. ESSAKIAPPAN: My name is Somasundaram 25 Essakiappan.

1 And was there a request to spell my name? 2 MS. BADIE: Yes, please, for the record, for the 3 court record. 4 Thank you. 5 MR. ESSAKIAPPAN: Yes. Okay. S-O-M-A-S-U-N-D-A-R-A-M is my first name. 6 7 E-S-S-A-K-I-A-P-P-A-N is my last name. Yes. I wanted to say a quick couple of words to 8 9 thank the Commission for considering this effort. And we 10 have, as Jason mentioned, partnered with Lincus on this effort. 11 12 As a company, Trane is very much interested in DC 13 integrated systems and combining the thermal energy storage 14 capability that we have in our product portfolio. 15 And thanks to the Commission for considering this 16 project. And also, thanks to the DC colleagues, Jason 17 Tancher and Arun Suleman, for assisting us in shepherding 18 this proposal in front of the Commission. 19 Thank you very much, and I give back the time. 20 MS. BADIE: Thank you. 21 And next we're going to hear from Omkar 2.2 Ghatpande. Apologies if I've mispronounced your name. Ιf 23 you could please open your line, and we're asking for folks 24 to spell their name for our court reporter. And then your 25 time will begin on the screen. We're asking for comments

1 to be two minutes or less. Hello. My name is Omkar 2 Ghatpande. I hope you all can hear me. 3 I'll spell my name. It's O-M-K-A-R. That's my 4 first name, Omkar. Last name is Ghatpande, G-H-A-T-P-A-N-5 D-E. My name is Omkar Ghatpande, and I'm a research 6 7 engineer at the National Renewable Energy Laboratory, or NREL, in Golden, Colorado. First, I would like to thank 8 9 Jason and others, along with all the commissioners, for 10 giving me an opportunity to speak on this project. 11 This CEC proposed funding will greatly impact the 12 development of this innovative technology -- development 13 and demonstration of the innovative technology of using 14 native direct current heating and ventilation systems units 15 for commercial buildings. This technology is proposed to maximize the 16 17 efficiency of on-site distributed energy resources, thereby 18 reducing the reliance on the grid supply power to run the 19 critical HVAC system in buildings, especially during the 20 grid peak operations. By reducing this reliance on the 21 peak grid supply power, this project is also directly 2.2 contributing to improving resilience and reliability of the 23 grid. 2.4 Along with this, I would like to thank U.S. 25 Department of Energy's Building Technology Office for

funding the development and laboratory evaluation at NREL's 1 2 Commercial Building Research Infrastructure, or CBRI, at 3 the Energy Systems Integration Facility, or ESIF. 4 Thank you. I would like to yield the rest of my 5 time. Thank you for your comment. 6 MS. BADIE: 7 And those are all the raised hands for this item. Back to you, Chair. 8 9 CHAIR HOCHSCHILD: Okay. 10 Thank you for the presentation. 11 Let's go to commissioner discussions, starting 12 with Commissioner McAllister. 13 COMMISSIONER MCALLISTER: Great. 14 Well, thanks, Jason. This is really cool 15 technology with a lot of great potential, and I won't 16 repeat what the speakers have said, but it's great to have 17 the support of Trane and NREL, and I think it's an example 18 of a technology that's sort of inherently flexible or 19 improving the flexibility of end-use, and so efficient, 20 distributed, flexible, and that all supports the resilience 21 of the grid and helps buttress reliability. It just really 2.2 provides a bunch of benefits all rolled up into one, and 23 D.C. technology has really helped that take place -- and easier to control, and just all sorts of benefits. 24 25 So it could be a really interesting addition to

1 the marketplace, and I think will help, you know, 2 buildings, building owners and operators, and just -- and 3 grid operators, too. So really good stuff. 4 CHAIR HOCHSCHILD: Vice Chair? 5 VICE CHAIR GUNDA: Yeah. Thanks, Chair. 6 Jason, thank you for your presentation, and to 7 the commentators for kind of talking about the technology. Just wanted to uplift a couple of things. 8 9 The peak sharing ability of the project, you 10 know, anything to do help with the reliability and general 11 grid harmonization of the loads is, you know, always 12 excellent, and also the plug-and-play nature of the technology seems extremely beneficial. So look forward to 13 14 supporting it, and thank you for bringing the item. 15 CHAIR HOCHSCHILD: Okay. 16 Unless there's further discussion, I'd welcome a 17 motion on Item 7 from the Vice Chair. 18 VICE CHAIR GUNDA: I move Item 7. 19 CHAIR HOCHSCHILD: Is there a second from Commissioner McAllister? 20 21 COMMISSIONER MCALLISTER: Second. 2.2 CHAIR HOCHSCHILD: All in favor say aye. 23 VICE CHAIR GUNDA: Vice Chair Gunda? VICE CHAIR GUNDA: Aye. 24 CHAIR HOCHSCHILD: Commissioner McAllister? 25

1 COMMISSIONER MCALLISTER: Ave. 2 CHAIR HOCHSCHILD: Commissioner Gallardo? 3 COMMISSIONER GALLARDO: Aye. CHAIR HOCHSCHILD: Commissioner Skinner? 4 5 COMMISSIONER SKINNER: Aye. 6 CHAIR HOCHSCHILD: And I vote ave as well. 7 Item 7 passes unanimously. We will turn now to Item 8, PSGM3, LLC. 8 That's a 9 lot of letters. 10 And I welcome Lin Planchard to present. 11 MS. PLANCHARD: Greetings, Chair and 12 Commissioners, and a warm welcome to you, Commissioner 13 Skinner. I'm Lin Planchard. I'm a Utilities Engineer in 14 the Energy Research and Development Division. Today, I 15 will be presenting to you a \$14 million agreement with 16 PSGM3, LLC, otherwise known as Pacific Steel Group, to 17 deploy a long-duration energy storage system on-site at 18 their planned electrified steel plant. 19 Next slide, please. 20 Pacific Steel Group is a California company 21 currently working to construct the Mojave Micromill 2.2 Project, an ambitious, first-of-a-kind, innovative clean 23 energy project to build a \$630 million zero-process 24 emission rebar steel mill, which, as illustrated in these 25 mock-ups, will have an impressive 276 acres dedicated to

1 generating solar energy.

2	What makes this project truly unique is that
3	while electrified steel plants do already exist, this will
4	be the world's first 100 percent electric zero-carbon
5	emission steel production facility. Emissions will be
6	controlled with an industry-leading carbon capture system,
7	and all of the heat and energy-intensive processes of the
8	steel mill will be solely powered by electricity from on-
9	site renewables and the grid.
10	Sited in Mojave, California, this will be the
11	first steel mill built in California in over 50 years, and
12	when active will be the only currently operational steel
13	mill in California. The successful operation of the steel
14	mill will be a huge accomplishment for California and the
15	state's SP-100 goals, as well as set a global precedent for
16	innovative clean energy technology.
17	Next slide, please.
18	Pacific Steel Group's electrified steel plant
19	will significantly reduce the emissions caused by
20	transporting the heavy and dense rebar steel that
21	California needs for all types of construction. Since
22	California currently has no rebar steel production
23	capabilities, our scrap metal is transported out of state
24	to be melted and recycled by other steel mills, which would
25	then be transported all the way back to California as

1 rebar.

By building a new rebar mill, California can fill this gap in the market by localizing our scrap recycling and rebar production and thereby reducing emissions from transporting steel by approximately 118,000 tons per year. Next slide, please.

To support Pacific Steel Group's electrified steel mill project, CEC will be contributing \$14 million of funding to deploy a 32-megawatt-hour long-duration energy storage system that will support the plant's on-site microgrid and renewables.

The scope of the project is sectioned into two phases, the first of which is a small-scale 8-megawatt-hour deployment that will serve to initially gather insights for the full deployment and support the commissioning of the steel mill.

Phase two is the deployment of the full 32megawatt-hour system. This system will be installed amongst the solar PV surrounding the facility and will be integrated into the plant's microgrid and energy infrastructure to support the 50 megawatts of solar PV onsite.

The energy storage system will provide enhanced reliability and function as backup power for critical operations during outages, as well as help to optimize the

1 daily operational load and demand management of the plant. 2 Phase one is expected to be online January 2027, 3 and phase two is expected to be online April 2027. 4 Next slide please. 5 Lead agency Kern County certified an environmental impact report and mitigation monitoring and 6 7 reporting program on March 19, 2024 for Pacific Steel Group's Mojave Micromill project. The EIR identified 8 9 unavoidable and cumulative significant impacts to 10 aesthetics, air quality, and noise, and significant 11 cumulative impacts for biological resources and wildfire 12 for the Mojave Micromill project. 13 CEC staff reviewed and considered the county's 14 documentation and prepared an addendum to the certified EIR 15 and a statement of overriding considerations specific to the scope of the CEC LDS deployment project. 16 It was 17 determined that work under the proposed project presents no 18 new or substantially more severe environmental impacts 19 beyond those already considered and mitigated under Kern 20 County. 21 The information presented in the EIR addendum 2.2 demonstrates the mitigation requirements identified in the 23 EIR remain substantively unchanged by the addition of the 24 LDS system to the Mojave Micromill project.

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This project will directly support California's 1 SB-100 and clean energy goals by deploying an energy 2 storage system that will relieve stress off the grid and 3 4 optimize the use of available renewable energy. Given the 5 scale and variety of energy intensive processes in a steel mill, steel mills are characterized by very high and 6 7 rapidly fluctuating energy demand loads, and as such this project will give impactful insights on the application of 8 9 long-duration energy storage in meeting the unique and demanding power needs of industrial facilities such as 10 steel mills. 11 12 Pacific Steel Group's Mojave Micromill project is an exemplary case of electrification in industrial 13 14 applications and overall will set a precedent for 15 innovative clean energy solutions. This project will showcase what is possible for long-duration energy storage 16 and is a vital role in the electrification of California's 17 18 grid and the industrial sector. 19 Next slide please. 20 Staff recommends CEC adoption of the staff CEQA 21 findings that work under the project presents no new or 2.2 substantially more severe environmental impacts beyond 23 those already considered and mitigated in the statement of

24 overriding considerations, and staff recommends CEC

25 approval of this agreement with PSGM3 LLC.

1 That concludes my presentation. Thank you all 2 for your time and I'm happy to answer any questions. 3 CHAIR HOCHSCHILD: Thank you so much. Let's turn 4 to public comment on Item 8. 5 Thank you, Chair. MS. BADIE: The Commission welcomes public comment on Item 8 6 7 at this time. 8 If you're in the room with us we're asking folks 9 to use the QR code or visit the public advisor table on the 10 back of the room and if you're joining on zoom you'll use 11 the raise hand feature on your screen. It looks like an 12 open palm or star nine if joining by phone. 13 And we do not have anyone in the room so I'm 14 going to transition over to zoom. 15 Mark Olson, I'm going to open your line if you 16 could please unmute on your end. We're asking folks to 17 spell their name for the court reporter and we're also 18 asking for comments to be two minutes or less. There'll be a timer on the screen. 19 20 MR. OLSON: Hello. Can you hear me? 21 MS. BADIE: Yes. 2.2 MR. OLSON: Very good. My name is Mark Olson, 23 O-L-S-O-N, and good morning Chair Hochschild and CEC commissioners. I am the Vice President of Mill Operations 24 25 for Pacific Steel Group, and responsible for leading this

project to bring green steel manufacturing to California.
 I would like certainly to thank all of you for
 consideration today for this grant.

4 I'd like to extend my heartfelt thanks to the 5 team with the CEC that supported us and guided us through this process. Mike Gravely, Lin, and John Carrier. 6 We are 7 certainly grateful. We're thrilled to introduce green rebar to California, a crucial step for climate resilience 8 and infrastructure advancement. Our steel recycling 9 10 facility aims to set global standards for emission 11 reduction, particularly in carbon emissions.

12 This project involves the transition of 13 traditional natural gas processes to electrification, and, 14 supported by this grant, would facilitate the adoption of 15 new long-duration energy storage. This innovation promises 16 significantly lower scope to emissions and positions PSG to 17 compete more effectively with out-of-state producers.

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

MS. BADIE: Thank you.

21 And there are no further raised hands on this 22 item.

Back to you Chair.

20

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24 CHAIR HOCHSCHILD: I love this project. This 25 marries many of the things that we're trying to do

1 together. Industrial decarbonization, new manufacturing 2 assembly, and recycling facilities, and cutting-edge clean 3 energy technologies, and grid reliability. 4 So I know it's a lot of work to get to this point 5 from all sides. I did want to ask a little bit about the 6 7 chemistry we plan to use in this application and some of its capabilities. I mean, I imagine the sort of load 8 9 profile is pretty spiky with this kind of project, and, you 10 know, if you can sort of speak to the long duration 11 storage's ability to meet that, and anything else you want 12 to share on the characteristics of the chemistry. 13 MS. PLANCHARD: Yes, certainly. 14 Like our other long duration energy storage 15 projects, we're looking at electrochemical batteries, EOS 16 being the prime suspect here for what battery that PSG will 17 be going with. 18 As far as speaking to EOS's or other 19 electrochemical batteries' ability to deal with these 20 really high intensive load profiles, I'm not sure we have 21 specific -- this will be a brand new use case as far as I'm 2.2 aware. 23 I don't know if Mike, if you have any more experience with how well the batteries handle these use 24 25 cases.

1 MR. GRAVELY: Real quick, this one is a perfect 2 example of using non-lithium batteries in this environment. 3 This is a very peaky environment. In my past 4 history, I worked with steel mills in South Africa. They 5 create harmonics on the line and stuff. The storage will allow them. In fact, they're going to be using it so 6 7 large, they'll be using both some lithium-ion and nonlithium-ion together, and will be able to evaluate the 8 9 performance costs and longevity of the different 10 technologies. 11 Right now, they've been going through an internal 12 evaluation, and they're leaning towards EOS but they 13 haven't made a final decision, and that technology can 14 literally be used rapidly every day and not have the 15 degradation that you would have with lithium-ion, for example. So it becomes a very good demonstration for the 16 17 industrial market for long-duration storage. 18 You know, we've come here with eight projects. 19 This is the eighth project, where once they had 10 under 20 the long duration storage planning we received two years 21 ago. And this one is one that shows us the industrial 2.2 operation, and also allows us to evaluate the performance 23 and from an independent perspective. 2.4 CHAIR HOCHSCHILD: Thank you. 25 This is eight-hour zinc chemistry, right?

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MR. GRAVELY: Yeah.

CHAIR HOCHSCHILD: Yeah. Great.

Other comments?

Yeah. Commissioner McAlister, please.

5 COMMISSIONER MCALLISTER: Yeah. Just broadly, I want to give kudos to Pacific Steel. I don't remember 6 7 exactly when our first meeting about this was but it was a long time ago. I really appreciate the persistence and 8 9 also the commitment to doing it in a way that's consistent 10 with California's policy direction and just doing the right 11 thing environmentally.

12 And so just overall the project, including the 13 energy storage element, I think it really demonstrates not 14 just responsible development on the energy side and the 15 grid, but also, you know, a cradle-to-cradle approach, industrial ecology, recycling. A lot of the inputs to 16 17 this, I think maybe 100 percent, are going to be recycled 18 steel. I think rebar doesn't require primary steel. This 19 is a really great way to bring the steel industry into 20 California in a way that really fits our overall goals. Ι 21 just really appreciate that.

And kudos again to Pacific Steel for going through all the process, which I imagine lots of agencies involved in just a lot of effort and expense and investment. I really appreciate that commitment.

1 CHAIR HOCHSCHILD: Yeah, Vice Chair, please. 2 VICE CHAIR GUNDA: Thank you, Chair. 3 Thanks, Lin, for your presentation. 4 Just want to extend, thanks to Simi, Cody, and 5 obviously Mike, always your expertise. And of course, Angie, Cami, and Jonah's leadership on this. 6 7 Again, I don't have to repeat this. The Chair mentioned it really well. I think this project brings 8 9 together a lot of different things focused on a very hard 10 to decarbonize sector, so it's all great. 11 I wanted to just kind of note, you know, the 12 procurement to the central procurement decision that CPUC has made on the long-duration storage, recognizing the 13 14 importance of that on the grid. So projects like this will 15 help with scaling, understanding the performance issues, but also understanding the affordability issues in this 16 17 technology. 18 So one question on this, are we currently -- how 19 are we planning to work with the utility on this? Given 20 that this is probably going to be behind the meter storage, 21 any opportunity we have in terms of both data collection on 2.2 its kind of generation profile, but also affordability and 23 how pricing might happen on these kind of projects? 2.4 Anything that you have, if not, we can follow up 25 separately.

1

Thank you.

2 MS. PLANCHARD: Yeah, certainly. 3 As a part of our project, we will be doing data 4 collection, especially because this is such a unique use 5 case. We really want to see how these batteries can be used as a blueprint for more industrial applications. 6 7 So certainly, we will be recording how the battery economically works and how the -- excuse me. 8 The 9 plant will be using grid and solar, and how the battery can 10 really help optimize the use of onsite solar so they don't 11 rely so much on the grid and become very reliable and self-12 sufficient that way. 13 So we'll be working with PSG to take notes and 14 try to have lessons learned on how we can apply this type 15 of formula in the future. 16 CHAIR HOCHSCHILD: Commissioner Gallardo? 17 COMMISSIONER GALLARDO: Fantastic presentation, 18 Lin, and great work team. 19 I also think this is a very cool project and very 20 excited about what we can potentially learn here for our 21 efforts in Lithium Valley, out in the Salton Sea region and 2.2 so I do have a couple questions. 23 I didn't get to do a briefing, so I'd love to do 24 something separate to get more in-depth, but just a couple 25 of the ones I want to ask here.

1 One, could you talk about the potential for jobs, 2 given that this seems like a big project? And I apologize 3 if I missed it earlier. Do you have a sense of that? 4 I'm not sure if that would be a better question 5 for the rep who called in. MS. PLANCHARD: Yeah, I definitely would be 6 7 closer to home with the PSG folks about the impact on jobs. Certainly, you can imagine with how huge a construction and 8 9 project this is that there will be jobs for the people near 10 Mojave. I don't know if we are allowed to talk to Mark 11 12 Olson, who's still on the line? 13 He would probably be able to answer that. 14 CHAIR HOCHSCHILD: Yeah, I had the same question. 15 Can you open up Mark's line and have him speak to 16 the jobs question? 17 Can you hear me? MR. OLSON: 18 MS. BADIE: Yes, Mark. 19 CHAIR HOCHSCHILD: Yes. Okay. 20 Yeah, no, great. Thank you. That's a very good 21 point and something that I think we're very proud of as 2.2 well. 23 So, this project will bring 400 jobs to the 24 Mojave area. These are going to be family sustaining jobs 25 in an area in eastern Kern County that certainly would

1 benefit from it.

2	And the steel industry also has a significant
3	multiplier. So, for every steel worker job, we produce a
4	multiple of jobs. So, we expect to bring about 1,100 jobs
5	to the region through this project.
6	COMMISSIONER GALLARDO: Could you clarify, Mark?
7	You mentioned 400 jobs, I think, in Kern County.
8	Are those permanent or are those construction?
9	And I think I heard 1,100 at the end.
10	MR. OLSON: Yeah.
11	So, direct jobs will be 400 permanent jobs in
12	Mojave.
13	If you want to look at construction, we'll
14	average 515 construction jobs over a two-year period, 24-
15	month construction.
16	The 1,100 is the direct plus the indirect jobs
17	that a steel manufacturing facility brings to the region.
18	COMMISSIONER GALLARDO: Thank you so much for
19	that. I appreciate it.
20	
	I have one more question, please.
21	I have one more question, please. CHAIR HOCHSCHILD: Please.
21 22	
	CHAIR HOCHSCHILD: Please.
22	CHAIR HOCHSCHILD: Please. COMMISSIONER GALLARDO: So, not related to that,
22 23	CHAIR HOCHSCHILD: Please. COMMISSIONER GALLARDO: So, not related to that, something separate.

1 I'm just curious if there was any engagement, 2 interaction with the tribes in the local area? 3 MR. OLSON: Yes. Yeah, absolutely. And we'll be 4 in lockstep with tribal monitors throughout the 5 construction. 6 We have, through the CEQA process, spent time 7 working with the tribes. So, yes. 8 COMMISSIONER GALLARDO: Okay. Thank you. 9 MR. OLSON: You're welcome. 10 CHAIR HOCHSCHILD: Okay. 11 Before I go to Commissioner Skinner, I did want 12 to just share, I have asked her to take on this assignment 13 on industrial decarbonization with Commissioner McAllister 14 to assume the portfolio which Commissioner Monahan had had, 15 and she's accepted. So, she's going to be leaning into 16 this whole issue. 17 And I did want to just say, Commissioner 18 McAllister, you made a really good point about how 19 strategic, you know, decarbonizing steel is together with 20 cement. I mean, those two things, if we can do that right, 21 it really is meaningful. 2.2 And I just want to name how hard this is to do. 23 It's really hard. 2.4 And so, progress like this and projects like this 25 are really significant steps forward.

1 So, with that, Commissioner Skinner. 2 COMMISSIONER SKINNER: Thank you, Chair. And 3 thank you all for the presentation. 4 And Mr. Huber, I think his name was, from the 5 company for, also, your comments. Yeah, I love this project. Not only is 6 7 industrial projects like this difficult to decarbonize, they're -- we don't see much steel manufactured in the U.S. 8 9 anymore. And yet, we're dependent on it. We need steel. 10 I had a steel factory near my home. So, when I 11 was on the Berkeley City Council, we still had an operating 12 steel mill, which ended up -- it was still operating when the reconstruction of the East Bay Bridge, and produced 13 14 good portions of it. It is no longer operating. And that 15 -- if we look across the country, we would see very few steel mills left in the U.S. 16 17 And when steel mills leave here, most places 18 where they are, most everywhere else, we get steel. That 19 steel, if we're looking at it from an environmental, from 20 air pollution emissions, from all sorts of emissions -- and 21 as we know, emissions come over from Asia to California and 2.2 all the West Coast. They do not have to meet our kinds of 23 standards. So, this is beyond just carbon. 24 So, this -- the fact that we would -- the state 25 of California would have a state-of-the-art steel mill to

produce a product that we know we are dependent on is just, it's phenomenal, and that it would be all-electric and that it would have long-duration storage -- and we're really, we're rooting for all of this working as intended and as planned.

6 It's just -- it's phenomenal. That's all you can 7 really say.

8 And of course, we know that, as has been 9 commented by my colleagues, that this kind of industrial 10 operation is the most difficult to decarbonize. So, it's 11 going to be real interesting to see how it all proceeds.

And finally, you know, we're not, the perception about California is that we're not a manufacturing state. We are. We are the number one manufacturing state in the country. So, the more that we can do our manufacturing in a way that meets our other goals, all the better, and again, a signal to the rest, not only of this country, but the world.

So, I'm really looking forward to working on this and with you all about it.

CHAIR HOCHSCHILD: Thank you.
Any other comments?
With that, I would welcome motion from
Commissioner McAllister on Item 8.
COMMISSIONER MCALLISTER: Move Item 8.

1 CHAIR HOCHSCHILD: Is there a second from 2 Commissioner Skinner? 3 All in favor say aye. Commissioner McAllister? 4 5 COMMISSIONER MCALLISTER: Aye. CHAIR HOCHSCHILD: Commissioner Skinner? 6 7 COMMISSIONER SKINNER: Aye. CHAIR HOCHSCHILD: Commissioner Gallardo? 8 9 COMMISSIONER GALLARDO: Aye. CHAIR HOCHSCHILD: Vice Chair Gunda? 10 VICE CHAIR GUNDA: Aye. 11 12 CHAIR HOCHSCHILD: And I vote aye as well. 13 Congratulations. With that, we'll go to California -- Item 9, 14 15 California Department of Transportation, Caltrans. 16 Welcome, Sarah Sweet. 17 MS. SWEET: Good morning, Chair, Vice Chair, and 18 Commissioners. My name is Sarah Sweet, and I work in the 19 Fuels and Transportation Division. I'm joined by Jimmy 20 O'Dea, the Assistant Deputy Director for Transportation Electrification Caltrans. 21 2.2 Item number four pertains to an interagency 23 agreement between Caltrans and the Energy Commission for 24 implementing the awarded Charging and Fueling 25 Infrastructure, or CFI, grant. I'm pleased to present this

agreement to you today for approval because it officially makes CEC the implementer for this award in California and formalizes yet another partnership with Caltrans to implement federal funding for ZEV infrastructure.

5 Before I dive into the importance and purpose of 6 this interagency agreement, I first want to give you a 7 brief overview of the CFI program.

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9 CFI is a \$2.5 billion program that uses funding established under the Infrastructure and Investments Jobs 10 11 Act of 2021. Caltrans, in partnership with the Energy 12 Commission, the Oregon Department of Transportation, and 13 the Washington State Department of Transportation, applied 14 for CFI funding in June of 2023 and was subsequently 15 awarded \$102 million in one-time funding in August of 2024 for the West Coast Truck Charging and Fueling Corridor 16 17 Project. The purpose of this program is to install 18 publicly accessible, sustainable charging and fueling 19 infrastructure along alternative fuel corridors.

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The primary objective of the West Coast Truck Charging and Fueling Corridor Project is to support West Coast freight routes and to enable goods movements with ZEVs. California, Oregon, and Washington will use the federal CFI grant for this project, for this project -- for

1 this project to deploy charging and hydrogen fueling 2 stations for medium- and heavy-duty vehicles along I-5 and 3 key freight routes in California.

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5 The importance and purpose of this agreement can be summed up simply. It formalizes the partnership between 6 7 Caltrans and the Energy Commission and outlines the roles of each agency in implementing California's CFI program. 8 9 Most importantly, it assigns the responsibility of 10 administering CFI Round 1B award to the Energy Commission. 11 This includes developing and managing the CFI funding 12 opportunity as well as the resulting agreements. While the Energy Commission takes the lead in implementing this 13 14 program, the interagency agreement emphasizes close 15 collaboration between Caltrans and the Energy Commission to 16 ensure the program's success.

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18 California is poised to enjoy significant 19 advantages from this newly established federal program. 20 The CFI program aims to support medium- and heavy-duty ZEV 21 transition by installing public charging and hydrogen 2.2 fueling infrastructure along key freight routes. In the 23 process, the program will generate good-paying jobs and reduce diesel emissions. 24 25

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1 Staff recommends the Energy Commission approve 2 the interagency agreement with Caltrans to administer CFI 3 funds, the \$252,000 in match funding for administrative 4 expenses, and adopt the staff determination that this is an 5 administrative action and, therefore, exempt from CEQA. 6 Thank you. 7 CHAIR HOCHSCHILD: Great. Thank you. Let's go to public comment on Item 9. 8 9 MS. BADIE: Thank you, Chair. 10 The Commission welcomes public comment on Item 9 11 at this time. 12 If you're joining us in the room, you'll use the 13 QR code to visit the public advisor table, and if you're 14 joining by Zoom, you'll use the raise hand feature on your 15 screen or star 9 if joining by phone. 16 I'm not seeing any public comment in the room or 17 on Zoom, so I'll turn it back to you, Chair. 18 MS. SWEET: Apologies. 19 I have Jimmy O'Dea from Caltrans first to say a 20 few words. 21 CHAIR HOCHSCHILD: Oh, yeah. Great. 2.2 MR. O'DEA: Hi. Good morning, Chair. Good 23 morning, Commissioners. Congrats, Commissioner --24 Commissioner Skinner, on your appointment. Jimmy O'Dea at 25 Caltrans.

We're just so excited about this partnership with CEC. It builds on our other two partnerships with other federal funding programs. We have a great team with our Washington and Oregon DOT colleagues.

5 This is the single largest award made under the 6 Federal Charging and Fueling Infrastructure Program, \$102 7 million. We're just so proud of it. It's a really big 8 priority for Caltrans and our ZEV portfolio. The team at 9 CEC, we couldn't ask for better partners. Ben, Sarah, 10 Jonathan, the whole team, and thank you for all of your 11 support.

12 Obviously, I'm sure you saw federal news 13 yesterday and this morning of an executive order on federal 14 funds putting a pause on disbursement of funding like this 15 under NEVI and the CFI program. I've been on the phone all 16 morning about what this means.

We have done a lot of work leading up to the administration change at the federal level to shore up all our federal funds. Kudos to all of our staff at Caltrans CEC.

There's some uncertainty, and we're going to work through that, but we think we've done everything we can, and we're going to be partners and make sure this money gets to California.

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CHAIR HOCHSCHILD: Great. Thank you.

1 I just really want to express my appreciation for 2 Secretary Omishakin, who's been a wonderful partner in all 3 this. From our early conversations, it's just great to see 4 this come to fruition. We look forward to getting more of 5 this stuff deployed. I'll be going down tomorrow to Long Beach for the 6 7 dedication of four new mobilities, heavy duty truck charging in Long Beach and hopefully we can be doing a lot 8 9 more of that. 10 So thank you for all your work with that. 11 Let's go to Commissioner Skinner. 12 COMMISSIONER SKINNER: Thank you, Chair. And 13 thank you, our fuels and transportation division for the 14 excellent work on this, of course our partners in Caltrans, 15 and our partners in the states of Oregon and Washington. 16 On the uncertainty that you mentioned, Mr. O'Dea, 17 from the recent federal change, hopefully, our other states 18 are just as excited as we are and will help to -- will work 19 just as hard as we will to try to secure those funds and 20 not see them go because it is part of the goods corridor, 21 and it's so important. 2.2 So I really want to -- you deserve huge thanks 23 and congratulations to the division and to Caltrans for the work on this. 24 25 And in addition to the item that we are voting

on, there was a recent announcement that we secured an additional \$55.9 million in round two funding from the Federal Highway Administration. We will hope that that's not at risk. And of course, the funds are, as has been mentioned, from the Biden-Harris Administration's Bipartisan Infrastructure Investment and Jobs Act which California has fortunately been a strong beneficiary from.

8 And as your presentation indicated, the funding 9 is going to support a competitive solicitation to deploy 10 high-powered public EV chargers across, you know, all those 11 corridor groups, including heavy traffic routes in 12 California and between Nevada and the other states to 13 support zero-emission freight transportation, which we know 14 is -- while some of our efforts in that are going to be a 15 little bit halted, the private sector itself has shown great interest. So that's important, and we need to 16 17 respond and support similarly.

18 So I am just thrilled and look forward to working 19 on it and really give my appreciation and thanks to all of 20 you who worked on it.

CHAIR HOCHSCHILD: Great.

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Any other comments or discussion on Item 9?
 Hearing none, I would welcome a motion on Item 9
 from Commissioner Skinner.

COMMISSIONER SKINNER: I so move to move 9.

1 CHAIR HOCHSCHILD: Is there a second from 2 Commissioner Gallardo? 3 COMMISSIONER GALLARDO: I second Item 9. CHAIR HOCHSCHILD: All in favor say aye. 4 5 Commissioner Skinner? 6 COMMISSIONER SKINNER: Ave. 7 CHAIR HOCHSCHILD: Commissioner Gallardo? COMMISSIONER GALLARDO: Aye. 8 9 CHAIR HOCHSCHILD: Vice Chair Gunda? VICE CHAIR GUNDA: Aye. 10 11 CHAIR HOCHSCHILD: Commissioner McAllister? 12 Aye. 13 CHAIR HOCHSCHILD: And I vote ave as well. 14 That item passes unanimously. Thank you. 15 We'll turn now to Lead Commissioner and Presiding 16 Member Reports and begin with Commissioner McAllister. 17 COMMISSIONER MCALLISTER: Well, great. 18 Well, really, I just wanted to sort of double 19 down on thanks to Commissioner Monahan, and really looking 20 forward to seeing what she does next. She's such a special 21 person. I think she'll find a lot of demand for her skills 2.2 and knowledge. 23 And then also to welcome Commissioner Skinner. Т 24 don't know when we first crossed paths, but it's been a 25 while. And I really just have enjoyed your collaboration

and certainly your leadership in all things energy
 efficiency and far beyond in transportation.

And I'll just also second your emphasis of, you know, trying to do our best to channel Art Rosenfeld's vision. You know, it's really already nice, but it's going to be, I know, very nice to collaborate on work on buildings, because it's among the most complex things that we do at the Energy Commission, and it will just really be great to have your knowledge and contribution to that.

10 And I think we're entering, you know, some 11 challenging times and that'll be more important than ever 12 really. And I really -- I think it's incredibly 13 advantageous to the Commission to have your skillset, just 14 connections and just the legislative experience and the 15 political funny bone that you have that's just so highly developed. And I think that complements my technical 16 17 knowledge very well. So I think Tweedle Dee and Tweedle 18 Dum, I think we'll be very good. I don't know who's Dee 19 and who's Dum, but it will be really, I think, very 20 productive to work together on that. So really looking forward to it. 21

Let's see. I think I'll just leave it there, actually. I don't have a lot of news. I know there's a lot of important work coming out, but I just want us to focus on that.

So thanks.

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CHAIR HOCHSCHILD: Thank you.

Vice Chair?

CHAIR HOCHSCHILD: Thank you, Chair.

5 Also just want to, again, second my gratitude to 6 Commissioner Monahan and wish her all the best and thank 7 her for the service.

8 And Commissioner Skinner, thank you again for 9 being here and being a part of the Commission moving 10 forward.

11 So I just wanted to lay out the next quarter kind 12 of for our office really will be around the regional grid 13 and the conversations around regional markets. Thanks to 14 Commissioner McAllister's partnership on that issue.

15 We have a workshop coming up this Friday to 16 discuss, you know, the evolution of the regional markets in 17 the West. So we'll be focusing on that.

18 Another important element for the next three 19 months would be the implementation of both the tools given 20 to us, both under ABX 1.2 and SBX 2.1, the petroleum stuff, 21 which Senator Skinner was intimately involved in. So I 2.2 look forward to working on that and look forward, 23 Commissioner Skinner, specifically for you to get some 24 briefings on that. You know, we have a lot of work being 25 done and we have to think about methodically how best to do

1 this.

2 A second part of the petroleum work is to work 3 with CARB on the transportation fuels assessment. So we 4 have some community meetings starting next week and look 5 forward to briefing you all on that and then debriefing and giving some updates in this venue as well. 6 7 So that will be our main focus, coming back from vacation, wishing everybody a wonderful year of work. 8 And 9 as with any changes, both small and big, hope is the best 10 thing to have. 11 Thanks. 12 CHAIR HOCHSCHILD: Commissioner Gallardo? COMMISSIONER GALLARDO: Thank you. 13 14 I have a couple slides. I wanted to focus real 15 quick -- I'll go briefly -- but on the goals that my team 16 and I have been working on for 2025. And I thought since 17 Commissioner Skinner is new, maybe going over that briefly 18 would be helpful. 19 Ι

And I want to give a big thank you to my team. I see Eric Stokes, who's my chief of staff, Aretha Welsh, who's one of my advisors in the room. So I really thank them for being here to support us and to support me in particular.

24They wanted to be here, Commissioner Skinner, for25your swearing in ceremony and show you support from our

1 entire team.

2 So I'll go to the next slide. 3 So to start out with, I'm really focused on our 4 opt-in certification program. That's our new permitting 5 program to get more clean energy facilities online. Really excited about it. So it hasn't been around so long, so we 6 7 don't have a ton of data and information yet to check out patterns and trends, but we are noticing that the 8 9 applications are taking a bit longer than we would want to 10 get to a complete state. And so we're going to be focused 11 on that, reducing the time to get to that completeness of 12 the application. And that's going to take partnership with 13 applicants and our peer agencies, et cetera. But that's 14 something that we want to focus on. It is a bit complex. 15 Fortunately, the step division, which has been an excellent team -- they've been very diligent -- they're 16 17 going to present an informational briefing for us, I 18 believe, at our next business meeting. I don't want to get 19 too ahead of them, but I think that'll be really helpful 20 because we will have some big decisions to make this year 21 on some of those applications that are coming through. 2.2 And then additionally, I wanted to say here on 23 opt-in, one of the things we're noticing is there might be 24 some missing information, and so we're thinking about 25 having what we're calling right now an open house on opt-in

1 so that more folks can come and about what's needed and 2 also present the types of skills, resources, et cetera, 3 that they have available to also be able to help us with 4 those applications.

5 Alright. Next up is the Lithium Valley Vision. 6 So this is a big effort that's being led by my office. 7 It's not in a policy division, so it's being run a little 8 bit differently. But we really want to make sure that we 9 do the Lithium Valley Vision correctly so that the 10 residents there in that area can benefit as much as 11 possible from anything that we do there.

12 So we have an informational proceeding that is 13 active, and we will have several workshops this year. We 14 invite you all to attend if you have any interest. And 15 some of the topics that we'll be addressing are, for 16 example, improving near-term bankability of lithium 17 projects, so making sure that they are more attractive, 18 more robust, feasible, et cetera. We also want to reduce 19 pre-development costs and risks for new geothermal and 20 lithium projects in that area, and also build up local 21 capacity and infrastructure to support the area and to 2.2 support the developers. And just in general, that area 23 lacks a lot of infrastructure, even the most basic, and so 24 I think they will really benefit if we could do this right. 25 We'll go to the next slide.

1 Another big area is the Renewables Portfolio 2 Standard. So we're going to be doing -- the step division 3 is leading an update of the guidebook this year, so you'll 4 be hearing a lot more about that. Vice Chair Gunda is the associate commissioner on that, so we'll be working 5 together to bring that forward. But there will be an 6 7 expansion of RPS, and so that'll be exciting to see these new technologies. 8

9 We're also wanting to do more to support the 10 public-owned and municipal-owned utilities. They are great 11 partners to us in achieving our 100 percent clean energy 12 goals, so we want to make sure that we uplift them, embrace 13 them, and engage with them in a way that enables them to do 14 as much as they can. And they've been doing a lot, but I 15 think we can do more together.

16 So one of the ideas we had is to have a meeting. 17 We had called it an en banc, but basically have all the 18 commissioners present to be able to hear from the MOUs and 19 the POUs, have them talk to us about their opportunities 20 and the challenges that are coming up for them, and being 21 able to engage that way. I also am planning to visit all 2.2 of the POUs and MOUs, so if anyone else of my colleagues 23 here want to join me on those visits, we will let you know. 2.4 And then finally, on our justice, access, equity, 25 diversity, and inclusion work. So Commissioner Skinner, we

1 use the acronym JAEDI. There are a lot of different 2 acronyms out there, but we use JAEDI. 3 So we are doing a lot on JAEDI. We have a 4 framework that we want to implement that was approved 5 through the 2022 IEPR that Vice Chair Gunda left -- led, sorry -- and we are excited now to be able to do more. 6 My 7 advisor Aretha Welsh is leading that effort and really grateful to her for doing so much. So we're going to 8 operationalize the JAEDI framework itself, also have 9 10 several workshops to be able to hear from the community on 11 various topics and issues to help us improve our efforts, 12 which I think are really important given that the new 13 federal administration isn't so supportive of these types 14 of efforts. So we'll be doing that. 15 That concludes my update here, unless someone has 16 questions. 17 CHAIR HOCHSCHILD: Thank you. 18 So Commissioner Skinner, this last item, or this 19 is just a standing item because of Bagley-Keene 20 restrictions, this is our time to share out anything you 21 want to report out to all of us. 2.2 This is your first day here, so I don't expect 23 it, but anything else you'd like to add, or ask, or 24 anything? 25 COMMISSIONER SKINNER: Only that I say my focus

1 is on getting oriented, and it's -- and not only to the 2 areas that I've been now assigned, obviously in the Fuels 3 and Transportation, but also Industrial Decarb. And thank 4 you for the second, for some of the Efficiency work, which 5 I'm very interested in. And of course our ports.

So while I have some knowledge, I do not have the -- I have a lot to get up to speed. So I would say for this first period of time, that will really be what I'm doing and focusing on, is getting up to speed.

10 CHAIR HOCHSCHILD: That's great. Thank you. 11 The only thing I'd like to just share out is I 12 had a quite extraordinary week last week. I was in D.C. for some meetings with Secretary Granholm and 13 14 Undersecretary David Crane, as well as to join President 15 Biden for the signing of the National Monument. So that 16 was a little under a million acres that got conserved. And 17 all of the California tribes that were involved, both for 18 Satitla and for Chukwala, came and one of the tribal 19 leaders took the tribal shawl and put it over the 20 president's neck.

And it was a very emotional moment, very special moment. And it was just extraordinary to be a part of that and see how much that means to all the tribes, both from the North and the South that attended. Senator Padilla was there, Senator Schiff, the California delegation. So

1 really special moment. Just wanted to share that. 2 With that, let's turn now to Item 11, Executive 3 Director's Report. 4 Jen, anything from Exec Office to share out? 5 DEPUTY EXECUTIVE DIRECTOR MARTIN-GALLARDO: No 6 updates. 7 CHAIR HOCHSCHILD: Okay. Let's go to Item 12, Public Advisor's Report. 8 Thank you, Chair. 9 MS. BADIE: Mona Badie for the Office of the Public Advisor 10 11 on Energy Equity and Tribal Affairs. 12 Just a couple of things. The CEC CPUC Disadvantaged Communities Advisory 13 14 Group met on Friday. And among other agenda items, they 15 received a presentation from CEC staff and provided 16 feedback on proposed gas research initiatives as part of 17 the 2025-2026 Gas Research and Development Budget Plan. 18 And I also wanted to mention that the next DCAG 19 meeting is scheduled for February 21st. 20 Our office wanted to thank Commissioner Monahan 21 for her leadership. We worked with her on transportation 2.2 equity, tribal funding, and also the Disadvantaged 23 Communities Advisory Group. 2.4 And we'd also like to welcome Commissioner 25 Skinner and look forward to working with you.

1 And that's all I have for today. 2 Thank you. 3 CHAIR HOCHSCHILD: Great. Thanks. 4 We'll turn now to Item 13, Chief Counsel's 5 Report. MR. WARD: Allan? 6 7 MR. WARD: The only item I have is the readout 8 necessary for the closed session that you're about to go 9 into. 10 Pursuant to Government Code Section 1126A1, the 11 Commission may adjourn to closed session with this legal 12 counsel to consider the appointment, employment, evaluation 13 of performance, or dismissal of public employee or to hear 14 complaints or charges brought against that employee by 15 another person or employee. 16 Thank you. 17 CHAIR HOCHSCHILD: Okay. 18 At this time, we will adjourn for closed session 19 and then return to report out when that's done. 20 (Off the record at 12:16 p.m.) 21 (On the record at 12:45 p.m.) 2.2 CHAIR HOCHSCHILD: We're back from closed 23 session. 2.4 I'm joined by Vice Chair Gunda and Commissioner 25 McAllister, and we'd like to report out that we will be

1	offering the position of Chief Counsel at the California
2	Energy Commission to Sanjay Ranchod.
3	And with that, we're adjourned.
4	(The meeting adjourned at 12:46 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 29th day of January, 2025.

Martha L. Nelson

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

January 29, 2025

MARTHA L. NELSON, CERT\*\*367