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<td>Business Meeting Agendas, Transcripts, Minutes, and Public Comments</td>
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BUSINESS MEETING
BEFORE THE
CALIFORNIA ENERGY COMMISSION

In the Matter of:

)21-BUSMTG-01
Business Meeting

REMOTE ACCESS ONLY

As of June 9, 2021, public comment will be accepted solely through the Zoom platform.

The California Energy Commission’s (CEC) August 17, 2021 Business Meeting will be held remotely, consistent with Executive Order N-08-21 to continue to help California respond to, recover from, and mitigate the impacts of the COVID-19 pandemic. The public may participate consistent with the direction in the Executive Order.

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

TUESDAY, AUGUST 17, 2021
2:30 P.M.

Reported by:
Peter Petty
APPEARANCES

Commissioners (Via Remote)

David Hochschild, Chair
Karen Douglas
Andrew McAllister
Patricia Monahan
Siva Gunda

Staff Present: (Via Remote)

Drew Bohan, Executive Director
Kerry Willis for Linda Barrera, Chief Counsel
Noemi Gallardo, Public Advisor
Eric Knight, Siting and Environmental Protection Office Manager
Elizabeth Huber, Siting and Environmental Protection Office Manager
Lisa DeCarlo, Office of the Chief Counsel
Jared Babula, Office of the Chief Counsel

Agenda Item

Shawn Pittard 1, 2

Others Present (Via Remote)

Interested Parties Agenda Item

Ted Craddock, CDWR 2

Public Comment (Via Remote) Agenda Item

Steve Uhler, Self 1, 2, 6
Chris Rosenthal, Self 6
INDEX

Proceedings

Items

1. Order on Process for Post-Certification Petitions for Changes in Design, Operations, or Performance of Existing Facilities 23

2. Order on Process for New Emergency and Temporary Power Generators. 8

3. Lead Commissioner or Presiding Member Reports 31

4. Executive Director’s Report 48

5. Public Advisor's Report 49

6. Public Comment 13, 18, 25, 49

7. Chief Counsel's Report 54

a. Pursuant to Government Code Section 11126(e), the CEC may adjourn to closed session with its legal counsel to discuss any of the following matters to which the CEC is a party:

I N D E X (Cont.)

17. Chief Counsel's Report (Cont.)


iii. Interlink Products International, Inc. v. Xavier Becerra, Drew Bohan, Melissa Rae King (United States District Court for the Eastern District of California, Case No. 2:20-cv-02283)


b. Pursuant to Government Code, section 11126, subdivisions (a) and (e), the CEC may also discuss any judicial or administrative proceeding that was formally initiated after this agenda was published; or determine whether facts and circumstances exist that warrant the initiation of litigation, or constitute a significant exposure to litigation against the CEC, which might include personnel matters.

Adjournment

Reporter's Certificate

Transcriber's Certificate
MS. MURIMI: The California Energy Commission's Business Meeting will begin shortly. Thank you for your patience.

(Start of Introductory Video.)

Today's Business Meeting is being held remotely. Please note the public comment will now be conducted via Zoom. When the public comment period is announced press the raise-hand feature to indicate you would like to make a comment.

If you are participating by phone to indicate you'd like to make a comment please raise your hand by pressing *9 and then press *6 to unmute. Again, that is *9 to raise your hand and *6 to unmute.

For public comment please note that comments are limited to three minutes or less per person and one representative per organization. Depending on the number of commenters we may adjust the time for public comment to be fair to everyone who'd like to speak.

After you raise your hand the Public Advisor will announce you using the listed Zoom name or with the last three digits of the phone number used to call in to the meeting. The Public Advisor will then open your line.

Before making your comment state and spell your name and
indicate your affiliation, if any.

Finally, to help ensure you’re heard clearly

speak closely and clearly into the device, do not use the

speakerphone feature.

Welcome to the California Energy Commission

Business Meeting. The meeting will now begin.

(End of Introductory Video.)

CHAIR HOCHSCHILD: Well, thank you. And welcome

friends to our August 17th Business Meeting. Commissioner

Monahan, would you lead us in the Pledge of Allegiance?

(Whereupon the Pledge of Allegiance was recited.)

CHAIR HOCHSCHILD: Thank you, Commissioner.

I do want to acknowledge we are in the middle

again of a surge with COVID and the Delta variant. And I

want to urge everyone to do your part by getting vaccinated

and wearing masks as required, and to exercise caution. In

addition, we are undergoing some stress to the grid this

summer and wanted to urge everyone as well to sign up for

Flex Alert Notifications at flexalert.org.

Now for instructions, today's Business Meeting is

being held remotely consistent with Executive Order N-08-21

to continue to help California respond to, recover from,

and mitigate the impacts of the COVID-19 pandemic. The

public can participate in the Business Meeting consistent

with the direction in this executive order.
Zoom is the platform we are using to conduct Business Meetings. Instructions for remote participation can be found in the notice for this meeting and is set forth on the agenda posted to the Commission's website.

If Zoom were to shut down we will switch to the Verizon phone line at 888-823-5065, the pass code is “Business Meeting.” Public comment would then be accepted through Verizon.

Pursuant to California Code of Regulations Title 20, section 1104(e) any person may make oral comments on any agenda item. To ensure the orderly conduct of business public comments will be limited to three minutes or less per person for each agenda item voted on today.

Any person wishing to comment on information items or reports, which are non-voting items, shall reserve their comment for the general public comment portion of the meeting agenda and shall have a total of three minutes or less to state all remaining comments.

We are now solely using Zoom for public comment. Once the public comment period begins if you would like to speak please raise your hand by clicking on the hand icon at the bottom of your screen.

If you're joining by phone press *9 to raise your hand and *6 to unmute.

After the Public Advisor calls on you to speak,
spell your name and state your affiliation, if any.

Let's turn now to the items. We're going to switch the order of the items and take Item Number 2 first, which is the Order on Process for New Emergency and Temporary Power Generators. So, Shawn, can you take it from here?

MR. PITTARD: Yes, I can. Thank you Chair.

Hello, good afternoon, Chair and Commissioners.

My name is Shawn Pittard. I’m the Deputy Director of the Siting, Transmission & Environmental Protection Division. I’m here to present two orders for your consideration that would implement provisions of Governor Newsom’s July 30, 2021, Emergency Proclamation.

With me today are the STEP managers who will implement these orders. Eric Knight, Siting and Environmental Protection Office Manager. And Elizabeth Huber, our Compliance, Monitoring and Enforcement Office Manager. Also with me today are our partners from the Chief Counsel's Office Lisa DeCarlo and Jared Babula. Special thanks to Kerry Willis for her leadership on this.

The Governor's Emergency Proclamation orders the CEC to take immediate action to reduce the strain on energy infrastructure, increase energy-generating capacity, and make energy supply more resilient to protect the health and safety of Californians. The two orders staff will present
today address actions that will provide additional
electricity to California before October 31, 2021. We
anticipate bringing a third order to next month's Business
Meeting that will address actions to provide additional
capacity by October 31, 2022.

Now the Governor issued an Emergency
Proclamation as a result of sudden and severe energy
shortages in California caused by extreme drought,
wildfires and record-breaking heat events throughout the
Western United States.

The proclamation declares that California
currently faces an energy-supply shortfall of up to 3,500
megawatts in 2021. And a shortfall of up to 5,000
megawatts is projected for Summer 2022. Next slide,
please. Thank you.

The proclamation authorizes the CEC to license
new emergency and temporary power generators of 10
megawatts or more that can deliver net peak energy by

To be licensed by the CEC, the emergency and
temporary power generators must meet specific criteria set
forth in the proclamation and in the order. These criteria
include locating the generators on a previously disturbed
site, using natural gas after construction as soon as is
practicable. And installing Best Available Control
Technology, what we call BACT, for air emissions as soon as practicable.

The order establishes a process by which the CEC would license these emergency and temporary power generators. First, within three days of the order’s adoption the Executive Director will develop a self-certification template to be used by applicants. We are working on that right now.

Within 10 days of receiving the self-certification and associated documentation the Executive Director will verify the self-certification is complete and meets the criteria in the order and either grant or deny the license. The Executive Director’s decision is final, and not subject to appeal.

These emergency and temporary power generators will be licensed for up to five years. Next slide, please.

Thank you.

Staff recommends adoption of Order No. 21-0817-2.

We are available to answer questions, thank you.

CHAIR HOCHSCHILD: Thank you, Shawn.

Let's see with the Public Advisor if we have public comment on Item 2.

MS. GALLARDO: This is Noemi, the Public Advisor.

We do have Ted Craddock from the Department of Water Resources. Excuse me, Ted, would you like to speak now?
COMMISSIONER DOUGLAS: If I could, Noemi --

MS. GALLARDO: Sure.

COMMISSIONER DOUGLAS: -- and again Chair Hochschild, maybe I could make some introductory comments, and then we could have Ted speak?

CHAIR HOCHSCHILD: That's fine. Yeah, please.

COMMISSIONER DOUGLAS: Super, thank you. So I wanted to make some introductory comments and start by thanking Shawn Pittard who we just heard from and his team in the STEP Division, and also Linda Barrera and the Legal Office, and my advisors and Commissioner Gunda and his advisors. And really a lot of people for their hard and swift work in establishing this proposed process for new emergency and temporary power generators as well as the post-certification changes that we’ll hear about in the next item.

Commissioner Gunda, as you know, is our Lead on Reliability. He's had a tremendously critical role as just the nerve center for all of our different work as we support reliability efforts and the emergency proclamation, and that includes his role and in this effort.

And I really want to thank as well the Department of Water Resources under the leadership of Ted Craddock, who we’ll hear from shortly, for putting together an extraordinarily impressive and very hard-working team to
work collaboratively with the Energy Commission and with
the Independent System Operator as we work to think through
our implementation of the emergency proclamation and the
processes that we're bringing forward today. And as DWR
carries out its responsibilities under the emergency
proclamation. I just want to say that Department of Water
Resources has stepped up in a really extraordinary way and
as has our partners in the ISO and Public Utilities
Commission as well, of course.

So we'll hear from Ted shortly. My comments are
brief, but I did want to emphasize that Governor Newsom’s
Emergency Proclamation makes it very clear that all of our
energy agencies have to act immediately to achieve energy
stability during this emergency, as well as accelerating
plans for construction procurement and rapid deployment of
new clean energy and storage projects to mitigate
(indiscernible - audio cuts out briefly.)

MS. GALLARDO: This is Noemi, the Public Advisor.
I am not hearing Commissioner Douglas. Is anyone else
having that issue?

CHAIR HOCHSCHILD: I lost her as well. Maybe you
could text her to try to go off video and just do it
verbally.

MS. GALLARDO: Will do.

CHAIR HOCHSCHILD: And perhaps in the meantime,
we could turn to DWR to begin and maybe Commissioner
Douglas could pick up when she's back on.

MR. CRADDOCK: Yeah, I’d be happy to.

CHAIR HOCHSCHILD: That'd be great. Thank you,
appreciate it. Please go ahead.

MR. CRADDOCK: Yeah, good afternoon Chair and
good afternoon Commissioners. Ted Craddock, I currently
serve as the Deputy Director for the State Water Project
with the California Department of Water Resources. I
really appreciate the opportunity to speak to the
Commission today.

As Commissioner Douglas mentioned both DWR and
Energy Commission staff have been partnered and
collaborating over the past few weeks to implement the
governor's emergency proclamation and specifically for
procurement to temporary emergency generators through the
state for the state.

As a team we've assessed over 40 existing power
plant sites, had to determine their suitability for adding
generation. And we're currently in the process for
procuring 530-megawatt units to be installed at three
locations throughout the state.

Additionally, we’ll be working to determine and
identify additional capacity to add as we move forward.

But it's really been, as Commissioner Douglas shared, an
incredible partnership between DWR Energy, Commission staff and the Independent System Operator to work together as a team to identify suitable sites and procure these generators in rapid fashion. These will be natural gas units that are hydrogen-capable in the future, and so will meet our current needs. And we'll have the capability to utilize future fuel blends of hydrogen, as we move forward in our clean energy goals.

So I think with that I’ll stop there and turn it back over to Commissioner Douglas.

CHAIR HOCHSCHILD: Thank you.

Yeah, Commissioner Douglas, are you back okay?

COMMISSIONER DOUGLAS: I am back and I heard most of what Ted had to say. I was working my way through some of the foundational elements of the energy emergency that got us here. I think, though, that we have covered most of it.

I just want to say that again, I really appreciate DWR’s hard work. They've got a tremendously impressive team on this. It's been a real pleasure working with them. And I know Commissioner Gunda probably has some comments on this and perhaps we could go to him. But thank you, Chair Hochschild.

CHAIR HOCHSCHILD: That’d be great. Let's do that, Commissioner Gunda?
COMMISSIONER GUNDA: Thank you, Chair, and thank you Commissioner Douglas. I do have a few comments, Commissioner, Chair Hochschild to just kind of sum up the context of this particular effort into greater reliability. To just kind of make sure those public who are calling in connect all the dots here.

So I just want to begin, first of all, by thanking Commissioner Douglas and her office for the incredible work that they have been doing for the last four weeks or so. Much more, but then definitely last four weeks it's been really a pleasure to see the different layers of expertise, legal expertise, that has brought to bear to help secure the reliability for the state.

I'd also like to extend my thanks to the Legal team as well as the Siting team for all the quick work and coming up with this process as quickly as possible here. So a special thanks to Shawn, Eric and the entire team, Elizabeth, and the entire team.

I also want to just follow with what Commissioner Douglas was saying. I want to really extend my sincere thanks to Ted Craddock who just made a comment, but also to Olivia Virgadamo, Ghassan ALQaser, Behzad Soltanzadeh and the entire DWR team. What an incredible, incredible team that DWR has, really experts in this area, but also at the amount of time that all are spending. So thank you, Ted,
to you and the entire DWR team.

I also want to just close, with my thanks to Mark Rothleder and Bob Kott and the entire CAISO team for their collaboration and hard work in making this particular element of the contingency plan come together.

With that I want to just set up at a high level, some of the context for this. As the Governor's Emergency Proclamation laid out as well as the staff’s presentation about it at the last week's Business Meeting reference, we are in an emergency situation. And it's good to have this as an additional resource, this particular ability to bring on additional resources between now and October 31st of this year, whether it's a few hundred megawatts that could make a significant difference towards the reliability.

Here's a couple of high-level takeaways from the CEC’s reliability modeling that was noted in the Emergency Proclamation. And Shawn quoted the 3,500 megawatts and the 5,000 megawatts net short. As a follow-up to the root cause analysis after last year's rolling outages CEC began developing new reliability analysis to provide situational awareness as well as plan for contingencies to fill the gap between planning and potential extreme weather scenarios.

Over the first half of this year the extreme scenario analysis has continued to deteriorate given the early onset of heat that we've experienced and the
increasing minimum temperatures in the day. So the overall minimum temperatures in the day are increasing, which will essentially create a higher load in the next day.

The outlook under extreme conditions further worsened given the drought conditions and the resulting production in the hydrogen rations, and the ongoing fire threatening both generation and transmission assets.

The Governor’s Executive Order provides critical tools for the state to develop contingencies and provide support during extreme weather events. Part of the planned contingencies definitely include the Flex Alerts, support for CAISO from neighboring California balancing authorities, and several demand side programs.

And since last year staff, specifically Siting staff under Commissioner Douglas’s leadership, were able to work through 136 megawatts, some incremental improvements to existing power plants. With this particular process there are over 140 megawatts of incremental improvements, as Ted mentioned and Shawn mentioned, that we could get this summer.

The weather-related uncertainties are such that we might have as much as 3,500 megawatts of net short this year or none. And this is the uncertainty that we need to plan for, so it is imperative for the state to develop as many tools as possible to help support reliability.
And I’m really grateful for all the work our staff in collaboration with DWR as well as CAISO have been doing, and I am just grateful for everybody’s work on this. Thank you, Chair, back to you.

CHAIR HOCHSCHILD: Thank you, Commissioner.

Yeah, before I turn to any other Commissioner comment, Noemi, I just wanted to verify there was no further public comment on Item 2?

MS. GALLARDO: We do have a hand raised, Chair, so let me go to that commenter now.

So we’ll start with the person whose phone number ends in 385. A reminder to please state your name, spell your name and indicate your affiliation, if any. I am opening your line now and you may begin. And a reminder to also unmute on your end, all right.

MR. UHLER: Can you hear me?

CHAIR HOCHSCHILD: Yes, we can.

MS. GALLARDO: Yes,

MR. UHLER: Great. My name is Steve Uhler, U-h-l-e-r. I have a question about the determination of the shortage and if you have a list of all the power plants that are available to the state. I’m looking at a list that shows 28 standby power plants. That’s about a half a gigawatt of power. Are you guys aware of that? I put together a list based on EIA data. And I’ve been trying to
get complete list out of the Energy Commission for quite a while. Mr. Babula could fill you in on that and my written comment will describe it more.

But I’m concerned that there is a need to build something new when you've got some power plants that are either unavailable for maybe a maintenance thing that could be brought back on. I showed 38 unavailable power plants, with a total capacity of about 2 gigawatts. And this is EIA data, so I would appreciate it if you guys would look at that.

I’m thinking that Angela Tanghetti is involved in this. I sent her a link to my page, my what I call, “Gen Card Index.” (phonetic) It takes all of California, it separates it into all the counties. It separates it into all the balancing authorities. It separates it into all the ones that the Energy Commission doesn't seem to know about being that they don't have a QFER ID on them. I’d appreciate it if somebody looks at that and goes through those before you break ground on anything or do anything.

So once again and I would really like to get a complete list of power plants that the state thinks -- there's a possibility that there might be 150 power plants that even the EIA doesn't know about. Also, any sub 1-megawatt plants. So bear that in mind and this comment will serve for both of them, but I’m really concerned that
you have a handle on it.

This Gen Card system similar to a system that I used to run a semiconductor plant, which has process units like power plants. They have chambers like generators. And we were able to keep a semiconductor plant in this state running while they shut down offshore plants another 10 years. Seriously, look at what I put together here.

You can also totally simulate down to the millisecond, if you like, what's going on and the likelihood of having a difficulty, so please look at that. And hopefully Angela will look at this, Angela Tanghetti. And she and I know each other for a long time. I can totally explain how this works, so don't leave this feature out. Let's not throw carbon at the problem if we already have a situation here that's because of informational.

It is an inventory control problem. Last year there was exporting a power, there was a power plant apparently being shut down that people weren't aware of. This system would tell you all of those things in real time, simply done just using the Internet and a few people making a few files on a website.

So please, please consider this in any of these situations where you're going to build a new power plant or allow another power plant to generate more emissions of any kind. Thank you.
CHAIR HOCHSCHILD: Thank you.

Noemi, any other public comment on Item 2?

MS. GALLARDO: I will check now. So this is last call for public comments on Item 2. If you would like to make a comment please raise your hand using the raise hand icon that looks like a high five on the platform. If you are on by phone press *9 to indicate you would like to make a comment.

Chair, I see no other raised hands, you may proceed.

CHAIR HOCHSCHILD: Okay, let's just see if there's any other additional comment. Commissioner McAllister or Commissioner Monahan?

Okay, hearing none I would just like to add my thanks to DWR, to Commissioner Douglas, Commissioner Gunda. I’m happy to move this forward. Commissioner Douglas, would you be willing to move the item?

COMMISSIONER DOUGLAS: Yes, I’d be very happy to move the item. And I just wanted to say very briefly before I move it -- and we did, Shawn did cover this -- but the permitting process for these emergency and temporary generators has the key features of a self-certification type component and delegated authority to the Executive Director to approve the petitions. He's given 10 days to make the approval, I think, where the forms are filled out
very well he very well may be able to act in fewer.

While we are implementing an expedited process I
want to be clear that the Energy Commission will maintain
its focus on safe and reliable operation of power plants
and monitor compliance with licensing requirements. And
the STEP team has done a good job of creating a website and
a webpage for this program to make it as efficient and
user-friendly and transparent as possible.

So with that I strongly support our approval this
item. I want to thank everyone who took part in putting it
together, and particularly again Ted and the DWR team for
their work. And I move approval of this item.

CHAIR HOCHSCHILD: Thank you.

Commissioner Gunda, would you be willing to
second?

COMMISSIONER GUNDA: I second the item.

CHAIR HOCHSCHILD: Okay, all in favor say aye,

Commissioner Douglas?

COMMISSIONER DOUGLAS: Aye.

CHAIR HOCHSCHILD: Commissioner Gunda?

COMMISSIONER GUNDA: Aye.

CHAIR HOCHSCHILD: Commissioner McAllister? (No
audible response.) We didn't hear you Commissioner
McAllister. Are you double muted? We still can't hear
you. We still -- maybe do a thumbs-up if you're voting
COMMISSIONER MCBILSTER: (No audible response – gestures to Chair Hochschild.)

CHAIR HOCHSCHILD: Okay, Commission McAllister.

Commissioner Monahan?

COMMISSIONER MONAHAN: Aye.

CHAIR HOCHSCHILD: And I vote aye as well, Item 2 passes unanimously.

Let’s move now to Item 1, Order on Process for Post-Certification Petitions for Changes in Design, Operations, or Performance of Existing Facilities.

MR. PITTARD: Great, thank you. Thank you, Chair.

Shawn Pittard again, Deputy Director of the Siting, Transmission & Environmental Protection Division. And still with me are Eric Knight, Elizabeth Huber, Lisa DeCarlo and Jared Babula. Next slide, please.

As we discussed in the previous item the Emergency Proclamation orders the CEC to take immediate action to reduce the strain on energy infrastructure, increase energy-generating capacity, and make energy supply more resilient to protect the health and safety of California. Next slide, please.

The Governor's Emergency Proclamation suspends Title 20, California Code of Regulations, section 1769.
These are CEC’s existing regulations for processing petitions for changes to existing facilities licensed by the CEC. And it authorizes the CEC to establish an expedited process for approving facility changes that will contribute to reducing the energy shortfall by October 31st, 2021.

Through October 31 21 the Emergency Proclamation also allows a facility to generate up to its full capacity, even if it means it will exceed its permit limits if it meets the following criteria. One, the California Independent System Operator issues a grid warning or emergency notice. Two, the permit limit is a condition adopted by the CEC or a local Air Quality Management District. Finally, the increased output will occur from two hours before to one hour after the CAISO grid warning, or emergency notice.

Facility owners must report excess emissions to CEC for transmittal to the California Air Resources Board within 48 hours of each exceedance. No petition to change is required for these projects. Next slide, please. Thank you.

The key elements of Order No. 21-0817-1 that would expedite approval of petitions are the authority to approve such position petitions is delegated to the Executive Director. The Executive Director’s decision must
be made within 10 days of receiving a complete petition.

And the Executive Director’s decision is final, and not
subject to appeal.

As Commissioner Gunda noted in his remarks on the
last item after last year's extreme heat events STEP worked
with CEC jurisdictional power plants to help identify
opportunities to increase generation capacity through
efficiency improvements, such as software and hardware
upgrades, which resulted in 136 megawatts of CEC-approved
electricity.

Staff is aware of additional potential changes
in 9 facilities that could provide an additional 143
megawatts of electricity that could be accomplished before

Staff recommends adoption of Order No. 21-0817-
1. We're available to answer questions. Thank you.

CHAIR HOCHSCHILD: Thank you Shawn, appreciate
that.

Any public comments on Item 1 Noemi?

MS. GALLARDO: This is Noemi, the Public Advisor.
I do see a hand raised, so we’ll start with that one. It's
a phone caller, phone ending in 385. Reminder to state
your name, spell your name and indicate your affiliation,
if any. Your line is open and you may begin.

MR. UHLER: Hello, this is Steve Uhler again. A
couple of points, these forms that would be filled out related to any of these changes please see that the QFER folks get this, these forms, so that they can make adjustments to their database as far as capacities, intake capacities, name changes.

Recently I noted that there was an ownership-change petition with a name change and I didn't recognize either of the names, because either of the names are not in the QFER system. It appears that this is being overlooked, but it's very important in inventory control. And once again this is very much an inventory control problem. You need to know the name, everybody needs to know the name, so that they can go into systems for people to figure out what's going on. So don't skip over section 1304, and particularly 1304(b) just to be in a hurry. You can just make sure you get this information out there.

Because I am amazed, you're 45 years old and you don't -- and nobody seems to be able to produce a complete list of power plants. I'm just blown away by that. The EIA data seems to be more comprehensive than what the Commission has. I'm not really sure how you can figure out what is missing. And when I'm looking at power plants that show outputs data as late as March of this year. Where the other data that you're looking at is from a couple of years ago in a lot of cases. And I would ask that you see that
the QFER folks clean up their data. There's over 500 items in there that don't have the EIA power plant IDs. And that's actually a requirement under 1304(a).

So please, and I can't errate (phonetic) enough. You can't control a product unless you know its product structure. And you need to get this stuff out there. Your staff and Jared can opt to this. He sent me a file and I was able to send it back with numerous errors. And they were trying to tell me what's in BANC. And that's local and they couldn't even get that correct, so pay attention to that. I am.

And using this system that I use here I will continue to follow this and once again make sure that we all know what you're doing, because you're putting carbon out there in a time where we can't afford to do that.

Thank you.

MS. GALLARDO: Thank you.

This is Noemi, the Public Advisor. Again I want to remind folks if you're an attendee and you would like to make a public comment please raise your hand to let us know, using the raise hand feature. It looks like a high five on the screen. If you're on by phone press *9. All right, Chair, I do not see any other hands. We can proceed.

CHAIR HOCHSCHILD: Thank you. Let's turn to
Commissioner discussion, starting with Mr. Douglas.

COMMISSIONER DOUGLAS: All right, thank you very much Chair Hochschild. So the comments I made on the first item are equally applicable here, especially the thanks to the STEP Division, Chief Counsel's Office, and the media team.

By providing the Energy Commission with the authority to take necessary and immediate actions to allow existing power plants currently subject to an Energy Commission license to make changes that would reduce the projected summer 2021 energy shortfall by October 31, 2021, the proclamation has positioned the Energy Commission to help make a meaningful difference in addressing the projected shortfall.

The expedited process developed by the STEP Division and with the support and help of the Chief Counsel's Office provides an efficient process that meets the demands and the timeline necessary to make a difference in this timeframe, while also ensuring and supporting the Energy Commission in maintaining its focus, again on ongoing compliance and safety.

I strongly support this item and recommend it for your approval.

CHAIR HOCHSCHILD: Thank you, Commissioner.

Other comments, starting with Commissioner Gunda.
COMMISSIONER GUNDA: Yeah, thank you Chair. Same here as Commissioner Douglas mentioned the comments in the previous items stand here.

I just want to reiterate what Commissioner Douglas mentioned in terms of the time, that time is of the essence. For both these items we are looking at support for both this summer, but some of these could potentially become support for next summer as the overarching planning regime continues to evolve to ensure we have a clear understanding on how best to plan for procurement as well as plan for contingencies.

So I just want to thank the staff, Siting staff, Elizabeth Huber specifically and Shawn, thank you so much for all the work that you've done on this as well as Jim Bartridge. And finally also the Chief Counsel's Office. I just want to give a kudos to Linda Barrera and a number of the legal team that are working on this. So with that I would also support this item.

CHAIR HOCHSCHILD: Thank you, Commissioner.

Any comments? Commissioner McAllister please.

COMMISSIONER MCALLISTER: Yeah, I just want to chime in and give my thanks to staff as well. I got a nice briefing. I’ve been paying attention to this obviously since the proclamation dropped and got a nice briefing about both these issues. And yeah time is of the essence.
I want to just really also thank Commissioners Gunda and Douglas for your attention to detail and just proactivity on these issues, because obviously the state really needs these resources ASAP, but also has to do it right. And I think you found a good balance there. And obviously it'll be a team effort going forward. We're giving a lot of authority to the Executive Director, and I think we'll be paying attention and making sure that all the i's dotted along the way. So really, thanks again for your leadership.

CHAIR HOCHSCHILD: Thank you, Commissioner.

Any other comments? Go ahead, Commissioner Monahan.

COMMISSIONER MONAHAN: Yeah, just quickly. It seems like there's been a lot of thanks going around, so I won't pile that on. But I just wanted to say I appreciate that we're in this place in the State of California where we need new energy resources and we're trying to balance that with making sure they are clean and safe and affordable. And I think this proposal really does this. Like Commissioner McAllister I was briefed by staff and asked lot of questions around what does it mean to be converted to natural gas as soon as practicable? And the staff all had great answers for that.

So I just think this is a proposal that
appropriately balances the need for a reliable energy system and increased sources of generation, while we're trying to also ensure help protect communities from -- even as we expand just the energy resources. Yes, I think I’m excited to move forward with this, we need it as soon as possible.

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

COMMISSIONER MONAHAN: I move this item.

CHAIR HOCHSCHILD: Okay, Commissioner Douglas would you be willing to second?

COMMISSIONER DOUGLAS: Second.

CHAIR HOCHSCHILD: All in favor say aye, Commissioner Monahan?

COMMISSIONER MONAHAN: Aye.

CHAIR HOCHSCHILD: Commissioner Douglas?

COMMISSIONER DOUGLAS: Aye.

CHAIR HOCHSCHILD: Commissioner Gunda?

COMMISSIONER GUNDA: Aye.

CHAIR HOCHSCHILD: Commissioner McAllister?

COMMISSIONER McALLISTER: Aye.

CHAIR HOCHSCHILD: And I vote aye as well. Item 1 passes unanimously.

Let's turn now to Item 3, Lead Commissioner or Presiding Member Reports. Commissioner Monahan.
COMMISSIONER MONAHAN: I hadn't really thought about this.

CHAIR HOCHSCHILD: Well, we just had a meeting a few days ago.

COMMISSIONER MONAHAN: I (indiscernible) monthly one, last time. Of course, I think I didn't make it too (indiscernible) at the last one, because I had an allergy attack.

But well, just really briefly, (indiscernible) --

I’m sorry, I can't remember if we actually did any Commissioner brief last time. So I’ll just be really fast to say we had been organizing an EV tour and we had a lot of excitement from different agencies. Liane -- or Chair Randolph and CPUC Commissioner Rechtschaffen, and then many others were excited to come. But we had to cancel it because of the Delta variant, so that was -- we spent a lot of organizing it and then cancelled it last week or two weeks ago. And that was pretty sad, but I think we had to do it just given everything that's happening in the state.

The team is moving forward with proposals, some of which I think you've already seen and some of which you'll see soon, to rapidly deploy funding for zero emission vehicle infrastructure. There is a lot of work with the team to make sure that we are spending our money swiftly and wisely as we meet the Governor's aggressive
goals around zero emission vehicle infrastructure, of
vehicles goals and infrastructure goals as well.

Oh, and then I think I mentioned to you all, I’m
sure I mentioned to you all that I’ve been working on a MOU
with the City of Zhangjiakou. And this has been literally
two years in the making. I went there right as COVID was
spiking right, so as it was starting actually, to China to
explore this. We finally signed it this week or last week,
I think, we signed the MOU. So that was exciting, more to
come on that.

But we really want to work closely with our
international partners on a strategy around hydrogen and
fuel cell vehicle deployments. The only way the market is
going to scale on fuel cells is if there's big global
investment happening, not just here in California or Japan
or Korea, but China, the EU. And so just really looking
forward to working more with our international partners to
make sure we have a strategy for reaching our zero emission
vehicle and infrastructure goals. That’s all.

CHAIR HOCHSCHILD: That's great, thank you,
Commissioner.

Commissioner Gunda?

COMMISSIONER GUNDA: Thank you Chair. I think I
had a pretty lengthy one last time, so I’m going to keep it
at a high level. I just want to flag that we will have a
workshop on August 30th in a week and a half or so that looks at the midterm reliability analysis by the CEC team. Commissioner Douglas is going to be involved in that as well, and I think, Chair, you're able to attend. I really encourage Commissioners McAllister and Monahan if you're able to attend. This will give us an opportunity to look at the analysis through 2026.

And I want to take this opportunity to just kind of frame one issue. We don't all get to talk privately about these things together, so let's take this opportunity. So as an industry standard we plan for what is called a one-in-ten-year event, right? So as a whole we're -- I mean, the planning, the IRP planning, the procurement planning typically happens in a way that the reliability will necessitate less than one outage in ten years. So that's what we plan for.

So the way we go about that is we do random analysis of demand and supply conditions and we do s multiple number of runs, randomly choosing one demand profile with one supply profile and so on. So that gives you kind of a probability. So if you ran 5,000 simulations, if you're able to have outages less than 500 times then you pass that industry standard. And it's important to note, because as we are planning to work through this, the reliability concerns we have right now,
we are trying to plan for this extreme scenario, which will bring our planning from one in ten to near zero, right? So when we put this 3,500 number or 5,000 number out we are looking at an extreme situation, which is outside of the planning regime that we currently plan for. And so the importance here is that we plan for a one-in-ten event, but then always have contingencies in our back pocket to be able to have that extreme scenario dealt with as well.

And as we continue to develop analysis, both on the demand side and supply side to better take into account kind of extreme weather events and climate change we will still end up with this delta between the extreme scenario and the planning standard. And it’s important for us to note, because that necessitates this kind of contingency planning for a very long time.

And I’m really grateful for Commissioner Douglas is going to lead, take the lead on developing this long-term contingency outlook, how do we think about this, so we're going to work together on that. So I just wanted to take this opportunity to share that information with my colleagues. Thanks.

CHAIR HOCHSCHILD: Thank you, Commissioner Gunda. Let's go to Commissioner Douglas.

COMMISSIONER DOUGLAS: Super, thank you Chair Hochschild. So yesterday -- and I’ll start on this and you
can add on -- but the Chair and I visited the Russell City Energy Center. And we had an opportunity to both meet with Calpine at the plant, but in addition Mayor Halliday was there as well as Fire Chief Contreras, and a number of other members of the city staff. It was a really, really informative trip. It was definitely the sort of thing that I know and I think all of us Commissioners are going to make that trip at some point. And I really recommend it, because it's important to see, it's important to see the power plant. It's important to see what happened there. It's important to talk to city and Calpine, and just really try to understand how we move forward, how we prevent this kind of thing from happening again.

There is a root cause analysis that's being conducted independently that is going on. The Energy Commission has an open investigation into this matter that will be informed by the root cause analysis, but it will be informed by our own independent work as well.

And I think there has been a lot of progress in working with the city and the Energy Commission staff and Calpine in this particular instance. I’m really interested in seeing how we can use what we learn here to improve safety and improve processes more broadly across the fleet where applicable. And those include both just understanding what happened here and how to hopefully
prevent it or what measures can be taken to prevent it.

But also just really seeing the benefits that have come out of the level of collaboration that exists now between Calpine and the city.

It's something that I want to just kind of remember that power plants, we vote on them, they get built, but we have a compliance obligation every year that that power plant is operating. And we've just kind of got to keep it fresh and we've got to keep checking in and just understanding that things are happening as well as they should. And I think that there's definitely a lot that we can learn and improve as we process and learn more about what happened there.

So that's kind of my report. I know, Chair Hochschild, you'll probably have some additions to that and I know that there are other visits planned, which I think is a really good thing. So that's my only report.

CHAIR HOCHSCHILD: Yeah, maybe I’ll just go now just while we're on that topic. And I think the mantra for me after that site visit, we were there for a couple hours, is never again. We were extremely fortunate not to have anybody killed or injured. But there is a 50-pound piece of metal that traveled 1,200 feet and Commissioner Douglas and I went to the residential care facility where that piece of metal came into their dining area and we saw the
hole in the ceiling. And it was just by good fortune nobody was killed.

So collectively we have to do better at prevention, at sourcing, at everything, every level of diligence. I’ve never seen an incident like this since I’ve been on the Energy Commission for eight-and-a-half years.

And we had a very honest discussion with Calpine and the Fire Chief and the Mayor and City Manager and others there about the incident. And we'll look forward to getting to the bottom of it when the root cause analysis is completed. But suffice it to say this is one of those things where I feel like we dodged a bullet and we have got to insist on doing better at every protocol in every way, so that we’re learning a lesson here and it does not repeat ever. And I can't say that strong enough.

So anyway I’m very glad to do the visit. I do want to thank in particular Shawn Pittard, Tim Smith and others who helped set up that tour, it was really informative. We went up to the to the deck of the power plant, saw the turbine that had been damaged, and got a really good sense of the facility and what unfolded. So thank you to the team for setting that up.

I would just add that this morning well, first of all, again wanted to congratulate the whole team and
Commissioner McAllister for the incredible work on the energy code. I got the roundup of all the media coverage this morning from our comm shop, and just incredible coverage from everything from the "New York Times" and "Reuters" to everything in between. And it's really gotten a lot of attention. I think it's going to inspire a lot of bold policy-making elsewhere around the country and the world.

And really, Commissioner McAllister said something today. We had a meeting with Secretary Crowfoot and his staff too. I invited the Secretary to give his thanks to the team for that. And Commissioner McAllister said something that stuck with me, which is that the process is so exhaustive and inclusive that you end up with a result that really embodies wisdom. I think that's really true. I think the code is a wise code. I think it’s forward-looking and pragmatic and really embodies as a result of a great process.

So one of the follow-ups that we did from that is this morning Commissioner McAllister and I met with Chair Randolph and Richard Corey at the Air Resources Board looking ahead at the regulatory scheme for heat pump technology and how to move to lower-impact GHG refrigerants over time, had a really good discussion with them about that. This is clearly something that's outside of our
wheelhouse. And just as we're seeing the emergence of heat pump technology and getting ahead of that is really important, and had a very good dialogue with them about that. And we're going to be coordinating much closer, going in the future.

I also want to highlight that the Governor has a new Climate Advisor, Lauren Sanchez, who a number of us have worked with closely over the years. She was instrumental in the success of the Governor's Executive Order last September, implementing the 2035 Rule for new vehicle sales to move to zero emission in California. And she had been at CalEPA and prior to that had been at CARB under Mary Nichols. Then went to do a stint with the White House on John Kerry’s team working on International Climate. And has just come back in this new capacity is the Governor's Climate Advisor. And we’ll probably have her in as a guest speaker at some point. But she's a terrific friend to the Energy Commission in our mission and I’m really happy to see her in that role.

I will also share we are going ahead with a visit to tribes later, at which I think next week Commissioner Douglas and I will be visiting using COVID safety protocols and doing a bunch of site visits to projects we've funded and meeting with various tribes over the course of next week with a number of staff. And I want to thank

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Commissioner Douglas and her team for all the work to set that up.

And so I guess the last update I’d just spoke at this forum on Lithium Valley. And just great momentum happening with that obviously. We've contract-signed like -- General Motors has signed a contract with CTR to use lithium recovered from the Salton Sea for their companies and their vehicles. And I expect a lot more, just great momentum coming out of that Lithium Valley Commission. And I want to thank Terra Weeks and my staff for her work on drafting the report in collaboration with the Commission. And I'm really very, very gratified that we've got that up and moving and look forward to the completion of the report.

And also just the process of all the stakeholders getting to know each other. It's the old African proverb, “If you want to go quickly, go alone. You want to go far, go together.” It really feels like we're doing that with all the key stakeholders from the tribes to Imperial Valley to the developers to the state agencies and local agencies. So thank you to everyone who's been involved that.

And I will stop there and send it over to Commissioner McAllister.

COMMISSIONER MCALLISTER: All right. Well, I’ll bring up the rear here. So I want to thank the Chair just
for all of your support on the Building Code item. I agree it really is momentous. Obviously it has to go through the whole implementation phase and will be effective January 1 of 2023, so we have a little bit of time before builders will actually be subject to it.

But I think I wanted to just make a couple of very quick comments. I mean, I spoke at some length at the Business Meeting last week, but I wanted to just let my colleagues on the Commission know that there are some really great materials that our media shop has put together. The press release itself that went out the day of, but also kind of a sixish pager-like glossy that has the high points on it that I think really does a good job of locating the code in the broader kind of clean energy transition in California is undergoing. And so if, as you probably will, you get pings from reporters and other stakeholders you can point them towards those documents, those will be really helpful. So thanks to Lindsay and the team for putting those together.

And I agree oftentimes solar gets a lot of the attention and that's right, because it's a really important part of our mix. But I think the pivot towards electric is something that really has resonated very, very broadly, because there a lot of states that have been wondering how to go about this. And I think this really does kind of
provide them a lodestar for them to look at and unpack and really think about, “Okay, it looks like this could be doable, the market might be ready for this.” And I think it's really going to create some momentum, not just in our state for that market, but much more broadly than that. So it's really a lot of the expectations are high, I think, for the impact.

And I think we'll see, as in previous code cycles, the way that it will unfold will be smoother than maybe some people might have thought. I mean, prices will come down of the production, the supply chain and all the installation sort of will -- the kinks will work itself out relatively quickly. So anyway that's the hope and expectation that we’ll be in a different place in a couple of years and have more possibilities even for decarbonizing our building stock. Not only new construction but also the huge stock of existing buildings, which is really where the where the pot of gold at the end of the rainbow actually is. We've got to move that needle.

So just a heads up on the IEPR, so many different themes. I mean it's incredible just how much is going on in every Commissioner office. We're all leading really important things and it's gratifying to see a lot of the dots being connected I think. It just feels like we're living through this moment where big, big things are
happening. And you don't maybe quite understand that when
you're wading through it, but when you look back on it, it
sure seems like that's what's happening. And I feel like
that's what's going on across the board right now, and not
even just in the Commission but just across agency land.

And so that effects -- I want to just give folks
a heads up. There is a housing and climate interagency
working group now that that is working with the housing
agencies and PUC, ARB and HCD and the Building Standards
Commission, Housing Finance Agency, I’ve probably left
somebody off. And that the Governor's Office is very much
interested in just coordinating the housing element of our
economy in transition with the energy and climate element.
And so that's a little bit overdue, but I think it's nice
to be able to translate between the languages of the
housing world and the energy world, so that we're really
rolling in the same direction and housing policy supports
climate transition and vice versa. So that's a
(indiscernible) roughly monthly. And I anticipate
involving many of you, maybe all of you in that over the
next coming months.

The last is that I wanted to yes confirm that
I’ll be visiting later this week, Thursday, with
Commissioner Monahan, Russell City. So really looking
forward to that and I think it's really looking forward to
both asking some tough questions, but also really seeing on
the ground and appreciating the collaboration that's going
on there as well. So we just want to echo the sentiments
of Commissioners Douglas and the Chair and Commissioner
Gunda.

So I think that's where I’ll wrap up my comments.

Oh no, well there are some IEPR workshops coming up on
building decarb, just FYI everyone. It’s on the 24th and
26th of this month. We're going to look at energy
efficiency and its decarbonization role, something that's
very California-centric in some ways, but I think important
to make sure that our metrics are correct and right. On
the 26th we're going to look at the HFC question that the
Chair referred to.

And then also we're going to start to unpack the
problem of embodied carbon that may not -- and likely won't
end up being in our wheelhouse entirely or even mostly, but
we want to just start that conversation. Because we're
getting a lot of stakeholders who want to know about,
“Okay, now that you're reducing the operational carbon
footprint of buildings, what about the embodied carbon in
the materials in the supply chain?” And so we're going to
start to think about that and see where that leads really.

And then another workshop later in the month, or
the next month on September the 10th in that same building
decarb track, so looking forward to all of those efforts.

And really appreciative of staff, for both IEPR staff and Division staff for putting together a lot of workshops in rapid succession. It's a huge amount of work, but it's necessary and it's super-productive for the Commission to do what we need to be getting done, so thanks for the time.

CHAIR HOCHSCHILD: Thank you. You know, colleagues, I forgot to share some fantastic news which we got yesterday, which is that Commissioner Gunda has been confirmed by the State Senate, so a real round of applause for that.

Commissioner Gunda, you have been such an amazing asset to the Energy Commission since you were appointed by the Governor earlier this year. Come in, landed with two feet on the ground, right away you knew the stuff, you knew your assignment on supporting reliability and dealing with many, many different stakeholders including our sister agencies. And really shoring up our strategy, our resources, getting us organized. Just have so appreciated your focus and your professionalism, your kindness and your collaboration. It's just been an honor to have you join the Commission and we're so grateful that the Senate has concurred to this assessment and look forward to many years of partnering with you. I wonder if you'd like to say a
few words?

COMMISSIONER GUNDA: Yeah Chair, thank you so much. I mean it was a really good feeling to hear that the full Senate confirmed. And I think that (indiscernible) was joking with my wife that the temp job extended from a year to possibly five years of being able to do and serve the State of California. So I mean I provided kind of my thanks to a number of you over a number of Business Meetings.

I do want to take this opportunity, Chair, to just say thank you. Thank you from the bottom of my heart. I would not have this opportunity without you, Commissioner McAllister and Drew, collectively supporting everything that I’ve done over the last four years. And so I just want to thank the three of you specifically.

And to Commissioner Monahan and Commissioner Douglas, it’s just been an absolute pleasure to have this kind of people who I can call my colleagues. So I mean, I now introduce myself in meetings when I’m with Commission McAllister that I am here with my mentor, and now a fellow colleague. It's just an amazing feeling to have this opportunity to serve.

I will send a note to all staff just kind of sharing some of the goals I noted and both in my responses to the Senate as well during my confirmation process, which
is aimed at really having CEC play a central coordination
drole on policy and conveyance of ideation and that's
something I’m going to write.

But I just want to thank you, Chair Hochschild
and Commissioner McAllister, thanks for encouraging me to
join the CEC. And, Drew, for your undeterred support of me
in the staff role and that gave me a lot of opportunities
to take a leadership role. So thank you all of you, and
all of my colleagues at the CEC.

And if I go through I have to note 600 thanks, so
I will hold there and just say thanks to everybody.

CHAIR HOCHSCHILD: Well on behalf of all of us
congratulations. I will say the gray hair comes quick as
you can see in this job so (indiscernible) --

COMMISSIONER GUNDA: I know I have my ID from
four years ago when I joined CEC. And every once in a
while I look at both of them. (Laughter.)

CHAIR HOCHSCHILD: I’ve kept the picture on our
website from when I joined, it's a lot younger-looking than
the one there. So well congratulations.

Let's turn now to Item 4, Executive Director’s
Report.

MR. BOHAN: Chair and Commissioners for the
record, might my grey hair is dyed, it's a style thing.

But I wanted to say thank you to all of you for
the trust you've placed in staff for these two items today. We take this obligation with grave seriousness and it's a circumscribed time period to get these reviews done. I want you to know though that we've been working together, staff have, to be prepared for this moment in anticipating you might vote these two items out.

We have, by my clock, by the close of this, this Friday to complete the form associated with Item 2 for the generators. We are on track to do that. We will move, but I want to just say that we are not leaving safety, both human and environmental in any condition different from how we've always treated those issues. It’s the most important thing we’ll be looking at. And we think we can both move quickly on these individually modest, but collectively very important generation resources while doing it safely for the public. Thank you.

CHAIR HOCHSCHILD: Thank you, Drew. Let's turn now to Item 5 Public Advisor’s Report.

MS. GALLARDO: Hi, there everybody. So I too have earned a few gray hairs had during my time at the Energy Commission, so I’ll join you in that. I do not have a report today Chair, but am ready to provide instructions for the public comment if you would like me to go ahead and do that.

CHAIR HOCHSCHILD: Yeah, let's turn to public
comment.

MS. GALLARDO: All right, so this is the period
for any person wishing to comment on information items or
reports of the meeting agenda or any other item. Each
person has up to three minutes to comment and comments are
limited to one representative per organization. We may
reduce the comment time depending on the number of
commenters.

Use the raise hand icon to indicate your interest
in making public comment. If you're on the phone press *9
to raise your hand and *6 to unmute. After you are called
on, please restate and spell your first and last names,
state your affiliation if you're representing a tribe,
agency, organization or any other type of entity. Do not
use the speakerphone when talking, because we won't hear
you clearly.

And now I will look to see if we have any hands
raised. And I do see we have a couple, so we will begin
with the person whose name is Chris R. Chris, a reminder
to please state your name, spell your first and last name,
indicate your affiliation if any. Your line is open and
you may begin.

MR. ROSENTHAL: Hi. My name is Chris Rosenthal,
it’s C-h-r-i-s R-o-s-e-n-t-h-a-l. I have no affiliation
other than to myself and the State of California as I’m a
I just was curious if the Commission was aware of the severity of the hydrogen shortage down in Silicon Valley where I live. I lease a hydrogen fuel cell vehicle and I’ve really enjoyed it except for the fact that it's incredibly challenging to get hydrogen fuel. In fact right now as we speak all of the eight stations in my area are offline and not serving hydrogen, which makes it very difficult for me to use my vehicle to commute, to get to work and to be really and truly a zero emissions car holder. Because I parked my car I drive my gasoline-powered car.

So I just wanted to bring this to your awareness if you weren't aware of it. And was curious what is the root cause and what is being done about it? So that's all I had to say. Thank you for your time and your comments and appreciate your help if you can give any.

CHAIR HOCHSCHILD: Thank you so much. Other comments?

MS. GALLARDO: So there is one other hand raised, now this is a person calling in. The phone number ends in 385. A reminder to please state your name, spell it, indicate your affiliation if any. Your line is open and you may begin.

MR. UHLER: Hello, can you hear me?
MS. GALLARDO: Yes, we can.

MR. UHLER: Okay, this is Steve Uhler, U-h-l-e-r.

A couple of things. This is a proceeding is held under a docket for Business Meetings that in its title lists agenda, but there's no agendas posted in the docket. Please see that the agendas are timely posted into the docket.

Another item on the docket, it appears that somehow my titles that are listed in the logs are changed, Title 20-1208-1 shows an emphasis on net retrieval. I add these additional characters to my title for efficiency of retrieval. I ask that you stop removing them or figure out what -- if the system is removing them. There should be no technical reason or any other reason to remove these characters from my titles.

Now on to some of the things that Commissioner had to say, did really consider the term “zero emission vehicle,” particularly in Sacramento county where at times 80 percent of the of the power is carbon-sourced. I call it midnight tailpipes.

On to modeling, we need to plan for graceful degradation. If you have this model, you should think about belt and suspender approach and not to -- place that model out there to be viewed and peer reviewed. It's always good to have more than one method of arriving at your
answer. In forty years of running four and five models to make sure we could build aircraft in this country, produce semiconductors. And if you only have one model you need to change that. You also want to make sure that we don't make this too heavy to fly by putting too many power plants out there and raising the costs.

Let's see what else have we got here. If you want to talk about dodging a bullet, one of the things you need to bear in mind is that Apollo 13 incident, the defect happened two years before that craft ever left the earth. I believe that you've got some defects in your data systems that are going to lead us to a situation that you didn't plan for, a decimal point in the wrong place, a cratered craft on Mars. I don't want to crater anything on the earth, so make sure that all of these models and all of these decisions are out there and we can look at these systems to make sure that there are no errors. I’ve found errors that would completely eliminate sections of models, I found reciprocals, which would nullify. So I want to see this model that led to making the decision here today.

Thank you.

MS. GALLARDO: Thank you.

I do not see any other hands, Chair, but I do want to remind all attendees actually if you do have a question that you need help with, you can always reach out
to the Public Advisor’s Office by email at publicadvisor@energy.ca.gov. I as the Public Advisor, can help you get ahold of a subject matter expert who can respond, or see if we can address your issue that you are having. You can also call our phone number as well, so I will provide that information in the chat box, so you can see that. And that's all for public comment, Chair.

CHAIR HOCHSCHILD: Okay. Thank you, Noemi. Let's turn now to Item 7, Chief Counsel’s Report.

MS. WILLIS: Thank you, Chair. We do not have a report for today, but we would like to add our congratulations to Commissioner Gunda. It's always been a pleasure to work with him.

CHAIR HOCHSCHILD: Thank you so much, Kerry.

All right, with that the meeting is adjourned. Thanks everybody.

(The Business Meeting adjourned at 3:41 p.m.)
REPORTER’S CERTIFICATE

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 27th day of August, 2021.

[Signature]

PETER PETTY
CER**D-493
Notary Public
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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.

IN WITNESS WHEREOF, I have hereunto set my hand this 27th day of August, 2021.

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Myra Severtson
Certified Transcriber
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