

MEETING
STATE OF CALIFORNIA
AIR RESOURCES BOARD

ZOOM PLATFORM

CALIFORNIA ENVIRONMENTAL PROTECTION AGENCY
BYRON SHER AUDITORIUM
1001 I STREET
SACRAMENTO, CALIFORNIA

FRIDAY, DECEMBER 16, 2022

8:32 A.M.

JAMES F. PETERS, CSR
CERTIFIED SHORTHAND REPORTER
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APPEARANCES

BOARD MEMBERS:

Liane Randolph, Chair

Sandra Berg, Vice Chair

John Balmes, MD

Hector De La Torre

John Eisenhut

Senator Dean Florez

Davina Hurt

Gideon Kracov

Tania Pacheco-Werner, PhD

Barbara Riordan

Supervisor Phil Serna

Professor Dan Sperling, PhD

Supervisor Nora Vargas

STAFF:

Steve Cliff, PhD, Executive Officer

Edie Chang, Deputy Executive Officer, Planning, Freight,
and Toxics

Chanell Fletcher, Deputy Executive Officer, Environmental
Justice

Annette Hébert, Deputy Executive Officer, Southern
California Headquarters and Mobile Source Compliance

Edna Murphy, Deputy Executive Officer, Internal Operations

APPEARANCES CONTINUED

STAFF:

Rajinder Sahota, Deputy Executive Officer, Climate Change and Research

Craig Segall, Deputy Executive Officer, Mobile Sources and Incentives

Ellen Peter, Chief Counsel

Ashley Arax, Deputy Legislative Director, Office of Legislative Affairs, Office of the Chair

David Ernest Garcia, PhD, Legislative Director, Office of Legislative Affairs, Office of the Chair

Jorn Herner, PhD, Air Resources Supervisor II, Research Planning, Administration, and Emission Mitigation Branch, Research Division

Nicole Hutchinson, Legislative Analyst, Office of Legislation Affairs, Office of the Chair

José López, Air Pollution Specialist, Research Planning and Climate Analysis Section, Research Division

Claudia Nagy, Senior Attorney, Legal Office

Sarah Pittiglio, PhD, Air Resources Supervisor I, Research Planning and Climate Analysis Section, Research Division

Elizabeth Scheehle, Division Chief, Research Division

ALSO PRESENT:

Roya Bahreini, PhD, University of California, Riverside

Francesca Hopkins, PhD, University of California, Riverside

Bryan Hubbell, PhD, United States Environmental Protection Agency, Office of Research and Development

Mary Prunicki, PhD, MD, Sean Parker Center for Allergy and Asthma Research, Stanford University

APPEARANCES CONTINUED

ALSO PRESENT:

Sam Silva, PhD, University of Southern California

Aly M. Tawfik, PhD, California State University, Fresno

	<u>INDEX</u>	<u>PAGE</u>
Call to Order		1
Roll Call		1
Opening Remarks		2
Item 22-16-2		
Chair Randolph		7
Executive Officer Cliff		7
Motion		8
Vote		9
Item 22-16-3		
Chair Randolph		10
Executive Officer Cliff		10
Staff Presentation		11
Board Discussion and Q&A		18
Dr. Aly Tawfik		29
Dr. Mary Prunicki		31
Dr. Roya Bahreini		32
Dr. Francesca Hopkins		32
Dr. Bryan Hubbell		34
Dr. Sam Silva		37
Motion		39
Vote		39
Item 22-16-4		
Chair Randolph		41
Executive Officer Cliff		42
Staff Presentation		44
Board Discussion and Q&A		55
Public Comment		57
Adjournment		64
Reporter's Certificate		65

PROCEEDINGS

1
2 CHAIR RANDOLPH: Good morning. The December
3 16th, 2022 public meeting of the California Air Resources
4 Board will come to order. Board Clerk, will you please
5 call the roll.

6 BOARD CLERK GARCIA: Dr. Balmes?

7 BOARD MEMBER BALMES: Here.

8 BOARD CLERK GARCIA: Mr. De La Torre?

9 Mr. Eisenhut?

10 BOARD MEMBER EISENHUT: Here.

11 BOARD CLERK GARCIA: Senator Florez?

12 BOARD MEMBER FLOREZ: Florez, here. And there's
13 a password issue for others that may not be able to get
14 on. So I just got on. So, yeah, Dean Florez here.

15 BOARD CLERK GARCIA: Thank you.

16 Assemblymember Garcia?

17 Ms. Hurt?

18 BOARD MEMBER HURT: Present.

19 BOARD CLERK GARCIA: Mr. Kracov?

20 BOARD MEMBER KRACOV: Here.

21 BOARD CLERK GARCIA: Dr. Pacheco-Werner?

22 BOARD MEMBER PACHECO-WERNER: Here.

23 BOARD CLERK GARCIA: Mrs. Riordan?

24 BOARD MEMBER RIORDAN: Here.

25 BOARD CLERK GARCIA: Supervisor Serna?

1 BOARD MEMBER SERNA: Here.

2 BOARD CLERK GARCIA: Professor Sperling?

3 BOARD MEMBER SPERLING: Here.

4 BOARD CLERK GARCIA: Ms. Takvorian?

5 Supervisor Vargas?

6 BOARD MEMBER VARGAS: Vargas, here.

7 BOARD CLERK GARCIA: Vice Chair Berg?

8 VICE CHAIR BERG: Here.

9 BOARD CLERK GARCIA: Chair Randolph?

10 CHAIR RANDOLPH: Here.

11 BOARD CLERK GARCIA: Madam Chair, we have a
12 quorum.

13 CHAIR RANDOLPH: All right. Thank you. I'd like
14 to begin with a few housekeeping items before we get
15 started. We are conducting today's meeting in person as
16 well as offering remote options for public participation
17 both by phone and in Zoom.

18 Anyone who wishes to testify in person should
19 fill out a request to speak card in the foyer outside the
20 Board room. Please turn it into a Board assistant prior
21 to the commencement of the item. If you are participating
22 remotely, you will raise your hand in Zoom or dial star
23 nine, if calling in by phone. The Clerk will provide
24 further details regarding how public participation will
25 work in just a moment.

1 For safety reasons, please note the emergency
2 commit to the rear of the room through the foyer. In the
3 event of a fire alarm, we are required to evacuate this
4 room immediately and go down the stairs to the lobby and
5 out of the building. When the all-clear signal is given,
6 we will return to the auditorium and resume the hearing.

7 A closed captioning feature is available for
8 those of you joining us in the Zoom environment. In order
9 to turn on the subtitles, please look for a button labeled
10 "CC" at the bottom of the Zoom window as shown in the
11 example on the screen now. I would like to take this
12 opportunity to remind everyone to speak clearly and from a
13 quiet location, whether you are joining us in Zoom or
14 calling in by phone. And I'd like to remind both the
15 online commenters and the in-person attendees to please
16 silence your phones.

17 Interpretation services will be provided today in
18 Spanish for both in-person and Zoom attendees. If you are
19 joining us using Zoom, there is a button labeled
20 "Interpretation" on the Zoom screen. Click on that button
21 and select Spanish to hear the meeting in Spanish. If you
22 are joining us here in person and would like to listen to
23 the meeting in Spanish, please speak to a Board assistant
24 and they will provide you with further instructions. I
25 want to remind all of our speakers to speak slowly and

1 pause intermittently to allow the interpreters the
2 opportunity to accurately interpret your comments.

3 (Interpreter translated in Spanish).

4 THE INTERPRETER: Thank you, Chair Randolph.
5 Back to you.

6 CHAIR RANDOLPH: Thank you.

7 I will now ask the Board clerk to provide more
8 details regarding public participation.

9 BOARD CLERK GARCIA: Thank you, Chair Randolph.

10 Good morning, everyone. My name is Lindsay
11 Garcia. I'm one of the Board clerks here at CARB. I will
12 be providing additional information on how public
13 participation will be organized for today's meeting.

14 We will first be calling on any in-person
15 commenters who have turned in a request to speak card and
16 then I will be calling on commenters who are joining us
17 remotely. If you are joining us remotely and wish to make
18 a verbal comment on today's Board items, or during the
19 open comment period at the end of today's meeting, you
20 will need to be using Zoom webinar or calling in by
21 telephone. If you are currently watching the webcast on
22 CAL-SPAN, but you wish to comment remotely, please
23 register for the Zoom webinar or call in. Information for
24 both can be found on the public agenda for today's
25 meeting.

1 To make a verbal comment, we will be using the
2 raise hand feature in Zoom. If you wish to speak on a
3 Board item, please virtually raise your hand as soon as
4 the item has begun to let us know you wish to speak. To
5 do this, if you are using a computer or tablet, there is a
6 raise hand button. And if you are calling in on the
7 telephone, dial star nine to raise your hand. Even if you
8 previously indicated which item you wish to speak on when
9 you registered, you must raise your hand at the beginning
10 of the item, so that you can be added to the queue.

11 If you will be giving your verbal comment today
12 in Spanish and require an interpreter's assistance, please
13 indicate so at the beginning of your testimony and our
14 translator will assist you. During your comment, please
15 pause after each sentence to allow for the interpreter to
16 translate your comment into English.

17 When the comment period starts, the order of
18 commenters will be determined by who raises their hand
19 first. We will call each commenter by name and will
20 activate each commenter's audio when it is their turn to
21 speak. And for those calling in, we will identify you by
22 the last three digits of your phone number. We will not
23 show a list of remote commenters, however, we will be
24 announcing the next three or so commenters in the queue,
25 so you are ready to testify and know who is coming up

1 next. Please note, you will not appear by video during
2 your testimony. I would also like to remind everyone to
3 please state your name for the record before you speak.
4 This is especially important for those calling in by
5 phone.

6 We will have a time limit for each commenter and
7 we'll begin the comment period with a three-minute time
8 limit, although this could change at the Chair's
9 discretion. During public testimony, you will see a timer
10 on the screen. For those calling in by phone, we will run
11 the timer and let you know when you have 30 seconds left
12 and when your time is up. If you require Spanish
13 interpretation for your comment, your time will be
14 doubled.

15 If you wish to submit written comments today,
16 please visit CARB's send-us-your-comments page or look at
17 the public agenda on our webpage for links to send these
18 documents electronically. Written comments will be
19 accepted on each item until the Chair closes the record
20 for that Board item.

21 If you experience any technical difficulties,
22 please call (805)772-2715 so that an IT person can assist.
23 This number is also noted on the public agenda.

24 Thank you. I will turn the microphone back to
25 Chair Randolph now.

1 CHAIR RANDOLPH: All right. Thank you.

2 The first item on the agenda today is Item number
3 22-16-2, a proposed research contract with the University
4 of California, Berkeley, titled, "Impact of Air Pollution
5 Exposure on Metabolic Health Outcomes for California
6 Residents". If you are here with us in the room and wish
7 to comment on this item, please fill out a
8 request-to-speak card. If you are joining us remotely and
9 wish to comment, please click the raise hand button or
10 dial star nine now and we will call on commenters when we
11 get to the public comment portion.

12 This item is listed on the agenda to comply with
13 Board approval requirements in Government Code section
14 1091, because Board Member Balmes is affiliated with UC
15 Berkeley. Therefore, Board Member Balmes will abstain
16 from the discussion and vote.

17 Dr. Cliff, would you please summarize the item.

18 EXECUTIVE OFFICER CLIFF: Thank you Chair
19 Randolph. In April 2020, this Board approved Resolution
20 20-13 directing CARB staff to expand health analysis
21 methodologies to provide a more comprehensive analysis of
22 air pollution impacts, including adding health endpoints
23 to the methodologies. In response to the Board direction,
24 this proposed study will develop statewide concentration
25 response functions to evaluate air pollutant effects for

1 metabolic health outcomes. The study will also estimate
2 economic benefits from reducing air pollution exposures on
3 metabolic out -- health outcomes. This research will
4 examine health effects in racial and ethnic subgroups as
5 well as statewide average effects. Some of the metabolic
6 health endpoints to be studied include incidence of
7 diabetes, diabetic medication use, diabetes-related ER
8 visits, hospitalizations, and mortality. The information
9 gained through this contract will support CARB's ability
10 to evaluate the effects of its policies and programs,
11 including a wide range of public health benefits.

12 Approval by the Board will authorize staff to put
13 this contract in place. This concludes my summary of the
14 item. Thank you.

15 CHAIR RANDOLPH: Thank you.

16 Clerk, are there any members of the public who
17 have raised their hands or submitted cards to comment?

18 BOARD CLERK HARRINGTON: Thank. No, there are
19 currently no public commenters in person.

20 CHAIR RANDOLPH: Okay. I will now close the
21 record on this agenda item. Do I have a motion and a
22 second to approve this item and have staff proceed with
23 executing this contract?

24 BOARD MEMBER HURT: Move approval.

25 BOARD MEMBER RIORDAN: I'll second that motion.

1 CHAIR RANDOLPH: All right. Clerk, will you
2 please call the roll.

3 BOARD CLERK GARCIA: Mr. Eisenhut?

4 BOARD MEMBER EISENHUT: Yes.

5 BOARD CLERK GARCIA: Senator Florez?

6 BOARD MEMBER FLOREZ: Florez, aye.

7 BOARD CLERK GARCIA: Ms. Hurt?

8 BOARD MEMBER HURT: Aye.

9 BOARD CLERK GARCIA: Mr. Kracov?

10 BOARD MEMBER KRACOV: Yes.

11 BOARD CLERK GARCIA: Dr. Pacheco-Werner?

12 BOARD MEMBER PACHECO-WERNER: Yes.

13 BOARD CLERK GARCIA: Mrs. Riordan?

14 BOARD MEMBER RIORDAN: Aye.

15 BOARD CLERK GARCIA: Supervisor Serna?

16 BOARD MEMBER SERNA: Aye.

17 BOARD CLERK GARCIA: Professor Sperling?

18 BOARD MEMBER SPERLING: Aye.

19 BOARD CLERK GARCIA: Supervisor Vargas?

20 BOARD MEMBER VARGAS: Vargas, aye.

21 BOARD CLERK GARCIA: Vice Chair Berg?

22 VICE CHAIR BERG: Aye.

23 BOARD CLERK GARCIA: Chair Randolph?

24 CHAIR RANDOLPH: Yes.

25 BOARD CLERK GARCIA: Madam Chair, the motion

1 passes.

2 CHAIR RANDOLPH: All right. Thank you.

3 The next item on today's agenda is item number
4 22-16-3, public meeting to consider the proposed new
5 members for the California Air Resources Board's Research
6 Screening Committee. If you are here with us in the room,
7 please fill out a request to speak card. If you are
8 joining us remotely and wish to comment, please click the
9 raise-hand button or dial star nine now. We will call on
10 the commenters when we get to the public comment portion
11 of the item.

12 Research Screening Committee, also known as the
13 RSC, provides robust scientific peer review for CARB's
14 research projects. There are currently multiple vacant
15 positions on the RSC that need to be filled. Staff have
16 developed a new process for appointing RSC members to
17 increase transparency and promote diversity. Staff will
18 introduce the proposed new members for the Board to
19 consider for appointment to the RSC.

20 Dr. Cliff, would you please introduce the item.

21 EXECUTIVE OFFICER CLIFF: Thank you, Chair
22 Randolph. Today staff will provide an overview of the
23 roles and responsibilities of the RSC and introduced the
24 proposed new RSC members. The new RSC members would fill
25 current vacancies and expand the fields of expertise in

1 the RSC. The proposed members were selected through a
2 public nomination and application process. Staff reviewed
3 all submissions and interviewed the top candidates. The
4 candidates introduced to you today demonstrated experience
5 in one or more desired areas of expertise. If appointed,
6 they will help the RSC continue to uphold the scientific
7 rigor of CARB funded research that supports and informs
8 the goals and priorities of the agency.

9 I will now ask Jose López of the Research
10 Division to begin the staff presentation.

11 Jose.

12 (Thereupon a slide presentation).

13 RD AIR POLLUTION SPECIALIST LÓPEZ: Thank you.
14 Good morning Chair Randolph and Board members. My name is
15 Jose López. I am an Air Pollution Specialist in the
16 Research Division. And today, I will be providing to you
17 an overview of the Research Screening Committee, also
18 referred to as the RSC, and present the six candidates
19 that CARB staff is recommending for Board approval to be
20 appointed to the RSC.

21 Towards the end of my presentation, I will ask
22 the RSC candidates in attendance to introduce themselves.
23 They are joining us today via Zoom.

24 --o0o--

25 RD AIR POLLUTION SPECIALIST LÓPEZ: I will first

1 provide a brief history of CARB's research program and
2 overview of the RSC. The Legislature created CARB's
3 research program in 1971 and identified it as an integral
4 part of an effective air pollution control program.
5 CARB's research program continues to play an important
6 role in meeting the challenges of increasingly stringent
7 federal air quality standards and long-term climate goals,
8 and serves as the foundation for effective regulatory
9 decisions.

10 The program sponsors fundamental air pollution
11 and climate studies, supports the development of new and
12 innovative pollution-reduction strategies, and evaluates
13 ongoing programs and regulatory efforts. To assist the
14 Board in managing a technically sound research program,
15 the Legislature, through the Health and Safety Code,
16 mandated CARB to establish the RSC.

17 But what exactly is the RSC and what does it do?

18 The RSC is composed of qualified experts, such as
19 physicians, scientists, biologists, chemists, engineers,
20 meteorologists, and other persons who are knowledgeable,
21 technically qualified, and experienced in air pollution
22 problems for which projects are being reviewed. The
23 Committee can have up to eleven members and at least two
24 members need to have demonstrated expertise in the field
25 of climate change.

1 Ultimately, the key role of the Committee is to
2 review, and give advice and recommendations with respect
3 to all air pollution and climate change-related research
4 projects funded by CARB.

5 --o0o--

6 RD AIR POLLUTION SPECIALIST LÓPEZ: Now, I will
7 highlight a few key -- a few key requirements. First, RSC
8 members commit to attend meetings -- Committee meetings,
9 which are held approximately six times a year. At these
10 meetings, RSC members review and provide comments on
11 project proposals and draft final reports. It is
12 important to note that all Committee meetings are subject
13 to the Bagley-Keene Open Meeting Act. This means that the
14 Committee meetings must be noticed in advance, open to the
15 public, and allow comments from interested members of the
16 public.

17 Second, CARB recommends a term length of four
18 years and each member can serve no more than three terms.

19 Finally, sitting RSC members cannot apply or
20 receive funding from CARB due to Government Code section
21 87104, which prohibits members from any existing CARB
22 advisory committee from being a signatory, administrator,
23 or project leader on any CARB grant or contract.

24 --o0o--

25 RD AIR POLLUTION SPECIALIST LÓPEZ: The process

1 to select new RSC members was triggered by the
2 transitioning out of existing members to other roles or
3 retirement. Staff began the process by identifying
4 priority areas of expertise that we hoped could be
5 reflected in the new RSC members. These areas were chosen
6 to address the emerging topics and expanded CARB program
7 mandates that the research program now supports with sound
8 science.

9 In particular, staff identified the need for
10 expertise in community-based research and equity. Staff
11 also developed a new public nomination and application
12 process to increase transparency and expand the
13 recruitment of new members.

14 In March of 2022, staff released the public
15 listserv announcement to solicit nominations and
16 applications. When the nominations closed in April, staff
17 reached out to every nominated candidate to encourage them
18 to submit an application. The application period closed
19 in May and the most qualified applicants were interviewed
20 in order to identify the top six candidates now being
21 recommended for appointment today. Both the application
22 screening and interview panels were multidivisional with
23 diverse racial and gender participation, which aligns with
24 diverse interview panels as outlined in a Diversity and
25 Racial Equity Task Force memo on our website.

1 --o0o--

2 RD AIR POLLUTION SPECIALIST LÓPEZ: Before I
3 present the six candidates, I want to share who the
4 current RSC members are. They are professor Suzanne
5 Paulson, from UCLA's Department of Atmospheric & Oceanic
6 Sciences; Dr. Alan Vette, the Deputy National Program
7 Director at US EPA; Dr. Tim Wallington, a Senior Technical
8 Leader for Environmental Sciences at Ford Motor Company;
9 and Professor Yifang Zhu from UCLA's Fielding School of
10 Public Health.

11 --o0o--

12 RD AIR POLLUTION SPECIALIST LÓPEZ: I will now
13 introduce the six proposed new members of the RSC. Please
14 note that the candidates in the slides are paired by area
15 of expertise.

16 Beginning with professor Aly Tawfik who teaches
17 at University of -- who teaches at California State
18 University, Fresno and is the Director of the
19 Transportation Institute at CSU, Fresno. Professor Tawfik
20 is passionate about transportation sustainability and the
21 future of transportation. The areas of expertise he has
22 been considered for are transportation services and
23 technology, big data analytics, and expertise in San
24 Joaquin Valley -- San Joaquin Valley air quality concerns.

25 Dr. Sam Silva teaches at the University of

1 Southern California in the Department of Earth Sciences
2 and the Department of Civil and Environmental Engineering.
3 Dr. Silva's research focuses on air pollution and climate
4 change. The areas of expertise he has been considered for
5 are big data analytics, air emission measurements,
6 monitoring, modeling, and climate science.

7 --o0o--

8 RD AIR POLLUTION SPECIALIST LÓPEZ: Dr. Bryan
9 Hubbell is the National Program Director for the Air,
10 Climate, and Energy Research Program in the United States
11 Environmental Protection Agency, Office of Research and
12 Development. Dr Hubbell is an expert on the health and
13 environmental impacts of air pollution. The areas of
14 expertise he has been considered for are economics,
15 including behavioral and public health economics, health
16 impacts and regulatory benefits analysis, and
17 epidemiology.

18 Mary Prunicki is a Physician Scientist and Senior
19 Director of air pollution and health research at the Sean
20 Parker Center for Allergy & Asthma Research at Stanford
21 University. Her research focuses on the impacts of
22 environmental exposures on the immune system. She is also
23 passionate about using her research findings to advocate
24 for those who are most vulnerable. The areas of expertise
25 she has been considered for are public health,

1 particularly in social determinants of health and
2 exposure, climate science and impacts, and respiratory
3 medicine.

4 --o0o--

5 RD AIR POLLUTION SPECIALIST LÓPEZ: Professor
6 Francesca Hopkins teaches at the University of California,
7 Riverside in the Department of Environmental Sciences.
8 Professor Hopkins' research focuses on the effects of
9 human activities on the global carbon cycle, with
10 particular interest in greenhouse emissions and feedbacks
11 to climate change. The areas of expertise she has been
12 considered for are climate science and impacts, and
13 expertise in South Coast and San Joaquin Valley air
14 quality concerns.

15 Professor Roya Bahreini teaches at the University
16 of California, Riverside in the Department of
17 Environmental Sciences, where she is also the Vice Chair
18 of the Department. Professor Bahreini research focuses on
19 airborne, ground-based, and laboratory measurements of
20 aerosol composition and microphysical properties. And the
21 areas of expertise she has been considered for are air
22 emissions measurements and expertise in South Coast and
23 San Joaquin Valley air quality concerns.

24 --o0o--

25 RD AIR POLLUTION SPECIALIST LÓPEZ: Staff are

1 recommending that the Board approve Resolution 22-22,
2 which will appoint the six candidates to the RSC. The
3 approval will fill six of the existing vacancies to help
4 increase the capacity and expertise needed to support
5 CARB's research program. CARB will then begin the process
6 to fill the remaining RSC positions and will build upon
7 our existing outreach efforts to ensure that all expertise
8 needed by CARB is covered by the 11 members. This
9 includes community-based research, as we continue to
10 expand projects such as the one in Imperial Valley where
11 we are creating a research roadmap with community members.
12 We would also welcome any recommendations for the Board --
13 from the Board members or others as to experts we should
14 reach out to as we continue to build a broad base of
15 expertise on this Committee.

16 With that, I would like to thank the Board and
17 the public for your attention today.

18 This concludes my presentation.

19 CHAIR RANDOLPH: Thank you. Do we have any
20 public commenters on this item?

21 BOARD CLERK GARCIA: No commenters for this item.

22 CHAIR RANDOLPH: All right. Thank you.

23 Do Board members have any questions or comments?

24 Board Member Hurt.

25 BOARD MEMBER HURT: Thank you, Chair. I want to

1 thank the staff for the briefing and answering some of my
2 questions, and, of course, Rajinder for circling back
3 around for a deeper dive on the selection process. And I
4 definitely feel better about the path forward. To give
5 folks a flavor, some of my questions I asked whether there
6 was targeted community engagement for applications in
7 committees -- communities of color or our highly impacted
8 communities. I asked whether Chanell Fletcher was a
9 member -- for a member of the -- her department of
10 panelists who reviewed applications, what sort of work
11 have these folks done with or in disadvantaged
12 communities. I was curious about that background.

13 The Research Screening Committee, in my opinion,
14 is a really important job, extremely important. They can
15 state whether a proposal is lacking aspects or can be
16 improved. And so diverse lived experiences is really
17 going to be essential on this panel.

18 And I have a little sensitivity about how we deal
19 with research and medicine in different areas. Especially
20 when it comes in this country, and I think about Henrietta
21 Lacks, and African Americans, and Native Americans, and
22 women, and again knowing that there are serious inequities
23 in the field of medicine that we do not perpetuate a lack
24 of diverse views or have implicit bias on certain topics
25 in the screening of research topics.

1 So I just wanted to uplift that. I know we're
2 really trying hard to operationalize equity and make sure
3 that it's throughout the DNA of this agency. I hope in
4 the next set we do a really extensive outreach and a more
5 robust process in targeting people in communities of color
6 and disadvantaged communities so that we can have those
7 views on the Screening Committee.

8 And I guess maybe the last thing I'll say is I
9 would never simplify like who a person is based on how
10 they look or the school that they attended, which is one
11 of the reasons why I'm really excited about many of the
12 applicants, just doing a very cursory review, very
13 intelligent, smart people. So this comment has nothing to
14 do with the individuals specifically. I'm really excited
15 about their leadership in the Screening Committee. But I
16 do want this agency to expand their horizons and look for
17 more community members, specifically in disadvantaged
18 communities, and again thinking a lot about African
19 Americans and women who their voice should be raised in
20 that space.

21 So maybe some of my colleagues have other
22 thoughts. Oh, one last thing. I understand from that
23 review that one of the things that happens in this process
24 is that you cannot receive funding for four plus years.
25 So this becomes somewhat a Committee on the haves. And I

1 think that we should -- we should think a little bit more
2 closely about how to tailor, making sure there aren't
3 conflicts of interest, so that we can get those folks who
4 maybe are in disadvantaged communities a part of this
5 process, because I could see that being something that
6 prevents people from putting an application in.

7 So I struggle with that on the city council when
8 that's not a paid living wage. And sometimes I think
9 about the screening committee and how can we think about
10 that and just be a little bit more thoughtful and tailored
11 about conflicts of interest when it comes to folks like
12 that. And Maybe Dr. Balmes or others can speak to this a
13 little bit more. So thank you.

14 CHAIR RANDOLPH: Yes. And Dr. Pacheco-Werner
15 actually has her hand up, so I'm going to call on her
16 first and then we'll get to the rest of the folks on the
17 dais.

18 Dr. Pacheco-Werner.

19 BOARD MEMBER PACHECO-WERNER: Thank you, Chair.
20 First of all, I just wanted to congratulate my colleagues,
21 Dr. Tawfik, who is a really brilliant researcher, really
22 committed to the area, and has brought some really
23 important insights that are really impactful nationwide,
24 particularly during the COVID pandemic. So I'm really
25 excited to see what he's going to bring to this body and

1 as well as a big congratulation to the rest of the new
2 members. Excited for the research that you'll be
3 bringing.

4 I do want to echo Board Member Hurt's comments.
5 I know that I've talked to our folks in the Research
6 Division about this since I've been on, and we -- we've
7 done some good outreach. You know, I really appreciated
8 the deadline being extended and I think that that -- you
9 know, things like that, you know, flexibilities like that
10 really allow additional opportunities. I do want to say
11 that I personally know extremely brilliant, extremely
12 qualified African American and female public health
13 scholars that -- experts in social determinants of health.
14 I know epidemiologists, you know, African American women
15 and community based research epidemiology, all of those.

16 So I do think that there is that opportunity out
17 there in California and I do think that there are, you
18 know, strategies that we can continue to think about to
19 outreach, in particular, you know, really thinking about
20 how we -- how we reach out to the professional societies
21 for example or some of the work groups that are out there
22 on these topics through like national organizations, like
23 APHA.

24 So I do think that -- you know, I know personally
25 can name several off the top of my head. And so I do know

1 that the expertise exists here in California and I -- with
2 lived experiences, as Dr. Hurt said, and -- who would
3 provide valuable, valuable insight to this. So I do look
4 forward to if staff could reach out to me to -- about
5 filling the next vacancies and when that opens up. And,
6 you know, I can help with outreach on that, be more than
7 happy to. Thank you.

8 CHAIR RANDOLPH: Okay. Dr. Balmes.

9 BOARD MEMBER BALMES: Well, first of all, I want
10 to totally agree with Supervisor Hurt and Dr.
11 Pacheco-Werner. And I also agree with Dr. Pacheco-Werner
12 that I, too, am willing to help. I know some people of
13 color who are excellent scientists who may not know about
14 the Research Screening Committee. You know, it's not like
15 this is widely understood as a funding agency for research
16 as the NIH, or the CDC, or even the U.S. EPA. So I'm 100
17 percent behind that effort and will help, just like Dr.
18 Pacheco-Werner.

19 I wanted to mention a couple things. One is that
20 I now several of the new RSC members, if we can pass the
21 resolution, personally. And Bryan Hubbell is a really
22 good catch. I applaud the Research Division for getting
23 him. Some of you may know about BenMAP. It's how health
24 benefits of various air pollution regulatory actions and
25 policies can be predicted, and assessed. And he's

1 basically one of the originators of BenMAP, and I've known
2 him for many years. He's really thoughtful and I think
3 it's a great contribution to our RSC.

4 And then Mary Prunicki, I don't even know how many
5 papers I have with Mary. She's at Stanford. I probably
6 have at least 10 co-authored papers with her, because she
7 works with me in Fresno on the Children's Health Air and
8 Air pollution Study. And so she actually -- Dr.
9 Pacheco-Werner and Supervisor Hurt, she actually has
10 worked doing research in low-income population of color.
11 Our CHAPS population is 80 percent Latinx and 14 percent
12 African American. There's hardly any people who aren't of
13 color.

14 So she is -- she doesn't have the lived
15 experience, but she has research experience, including
16 working with the community. So with that, I would say
17 that I'm ready to move a resolution.

18 CHAIR RANDOLPH: I just want to double check and
19 make sure nobody else has any comments. Before we do the
20 motion, I think there want -- some Committee members
21 wanted the opportunity to speak, is that correct?

22 DEPUTY EXECUTIVE OFFICER SAHOTA: That's correct,
23 Chair Randolph, but I want to make sure that I round out
24 the conversation on why we're here today with the RSC
25 proposal in front of you. That Committee has been around

1 for decades. And under the leadership of the Division
2 Chief Scheehle, who's sitting right behind me, she went
3 back and looked at that as a tool in the context of the
4 racial equity resolution that we had about two, two and a
5 half years ago, and realized that it was a static
6 committee that had static positions. They were never
7 updated. There were no term limits and it lacked
8 diversity.

9 And so we've spent the better part of a year
10 revamping the entire process, doing the outreach to try
11 and make it a more relevant tool with today's issues with
12 term limits to make sure that we constantly get new voices
13 that can be part of the process and the things that came
14 before the Board as the years go by. So there was a
15 concerted effort to actually go back and look at one tool
16 in particular this time, which was this, and we're doing
17 across other areas to actually figure out what we could do
18 better. And there were members that weren't even showing
19 up to meetings. So we're excited about the folks that are
20 being proposed in front of you. And we would love it if
21 they could have a few minutes to talk about their interest
22 and their backgrounds, if that's okay.

23 CHAIR RANDOLPH: Okay. And I also did want to
24 circle back on the question about the restriction on
25 grants. My understanding is that is actually a statutory

1 restriction, is that correct?

2 Okay. So we don't have the discretion
3 unfortunately to modify that, is that right?

4 CHIEF COUNSEL PETER: That's correct. I can add
5 a little bit more if you'd -- if you'd like.

6 So it is a statutory requirement, which is
7 Government Code section 87104, which is actually the item
8 we had this morning where we had to vote, because Dr.
9 Balmes actually had this. And so the Research Screening
10 Committee, along with some of the other committees for --
11 at CARB, like the EJAC, like the AB 617 Consultation
12 Group, like the Scientific Review Panel, are all
13 Bagley-Keene organizations. So when you have that, then
14 this Government Code section kicks in, but it's little a
15 bit narrower than what was portrayed in terms of the
16 question.

17 So, for example, the actual member on the RSC
18 cannot get money directly, but their organization can get
19 money. Obviously, you don't want to have somebody
20 that's -- you know, has power, you know, like, you know,
21 yourselves or like people on these advisory committees to
22 advocate for their own organization. So there's some
23 limits on what they can do, but it's actually not that
24 difficult. They can't sign the contract, but, you know,
25 their colleague can sign the contract. So the limitations

1 are not as broad as one would think. I think they're able
2 to be, you know, worked out without kind of violating the
3 whole notion of what's fair to the other people who are
4 applying for grants.

5 And also, just because this is unclear, the Legal
6 Office put together a memo on this exact topic and it's
7 posted on the webpage under the RSC. So you go to RSC,
8 this memo is there and it's a couple pages and lays out
9 the requirements, you know, kind of Bagley-Keene, kind of
10 what's your obligations. And the way Legal Office wrote
11 this was we want to talk about transparency. And so RSC,
12 the Research Screening Committee, needs to be transparent
13 to the public. That's why it's Bagley-Keene and that's
14 why we have these, you know, conflict provisions built in.

15 So if you say, oh, they can't get involved,
16 it's -- that's a little broader than the actual
17 restrictions. We have talked with people before of how
18 they can negotiation, you know, that kind of line. And
19 since it's a common issue and we have more than one
20 Bagley-Keene committee, that's why Legal put together the
21 memo and it's posted. It's been given to all the
22 different members. And then we decided to get it posted
23 on the RSC. So if you go there, you can see the whole --
24 all the -- all the gnarly details, but I just wanted to
25 touch on that.

1 CHAIR RANDOLPH: All right. Thank you.

2 Dr. Balmes.

3 BOARD MEMBER BALMES: Well, I think I'm the only
4 Board member who's actually been on the RSC, so -- because
5 I don't think Dr. Sperling was. And I had to think twice
6 about it, because I knew that I wouldn't be able to get
7 CARB funding. But, you know, fortunately I could get
8 funding from other sources and I had an NIH grant and a
9 Health Effects Institute grant that got my lab -- kept my
10 going so I didn't have to rely on CARB. So that's -- I
11 just wanted to note that for researchers for some of our
12 big ticket projects that community members probably
13 wouldn't be applying for, they can -- they have other
14 sources, you know, aside from CARB.

15 You know, as Dr. Sperling and I have often said,
16 the amount of money we have for research at CARB is --
17 it's like a pittance compared to other sources. I very
18 much appreciate all that we do, but it's like I wish we
19 had a lot more.

20 CHAIR RANDOLPH: Thank you. Okay. I'll turn it
21 back to staff to call on the RSC members and how did you
22 want to.

23 RD AIR POLLUTION SPECIALIST LÓPEZ: Yeah. Thank
24 you, Chair. So we have a list. And I would like to now
25 call on the candidates.

1 Professor Tawfik, please begin. You can unmute
2 yourself and you can share your screen as well.

3 DR. ALY TAWFIK: Thank you. So obviously in my
4 celebration uniform for the -- being selected for this
5 Committee

6 (Laughter).

7 DR. ALY TAWFIK: Thank you very much.

8 Actually, I am late for my graduation. Our
9 graduate ceremony started -- well, it is about to start in
10 seven minutes, so I'll try to be brief, then I'll ask for
11 you to excuse me to run for the graduation ceremony.

12 But -- so thank you, Jose, and thank you, all.
13 I'm very happy to be here with you today and I'm excited
14 about the possibility of serving on this steering
15 committee for several reasons. One reason is I live in
16 the Central valley and the San Joaquin Valley, and in my
17 opinion the biggest problem that we have in the San
18 Joaquin Valley is air pollution and air quality. I have
19 two little boys and this is always, always on my mind.
20 They are -- they both practice sports and they're all
21 always outside. And it's always a concern for me how can
22 we make this better for my kids, and for everyone's kid,
23 and for everyone. I mean, this is my home.

24 I think also climate change is a huge -- is the
25 biggest problem that faces the whole globe, whether in the

1 Central Valley, or California, or anywhere else. And for
2 these two reasons, I think I'm a great admirer and
3 supporter of CARB, and for the work that CARB does. So I
4 was very excited when Dr. Pacheco shared this opportunity
5 with me and encouraged me to apply.

6 And I think someone just mentioned that when they
7 were first thought about this opportunity, they thought
8 twice. I think I thought maybe a hundred times, so -- but
9 I think -- I'm excited about being here and about the
10 possibility of being of service to this community.

11 I'm also excited about the diversity of the
12 backgrounds of my colleagues on the -- on this Committee.
13 And I think I'll be learning a lot from them, so I look
14 forward to that as well.

15 Last comment is I want to thank the review
16 committee. I think I can attest that this process of
17 selection was extremely rigorous. It's probably one of
18 the most rigorous processes I have witnessed beyond my job
19 application when I was hired at the University.

20 So I want to thank you for even the interview
21 process. I mean, there were many thought-provoking
22 questions that I enjoyed thinking about and answering
23 myself. So I want to thank you all for this opportunity,
24 and I hope I could be of service.

25 Thank you.

1 RD AIR POLLUTION SPECIALIST LÓPEZ: Thank you,
2 Professor Tawfik.

3 Now, I would like to ask physician scientist Mary
4 Prunicki to please unmute yourself and share your opening
5 remarks. Thank you.

6 DR. MARY PRUNICKI: Hi. Good morning everyone.
7 My name is Mary Prunicki and I am also excited to be a
8 part of this important Committee and the CARB
9 organization.

10 My research interests align well with your goals.
11 For the past eight and a half years, I've worked at
12 Stanford. And we've investigated how air pollution,
13 wildfires, environmental exposures impact health,
14 especially immunohealth. I come from an immunology lab
15 and I'm passionate about the groups we do focus on, which
16 are typically the vulnerable populations. So we've looked
17 at pregnant women, children, firefighters, you know,
18 underserved populations, a lot of research, as Dr. Balmes
19 said, in Fresno, where, you know, everyone is exposed to
20 chronic air pollution.

21 And given the widespread impacts of air quality,
22 especially with our wildfires increasing, and the impact
23 of climate change, I just think this -- the area of air
24 quality could not be more important right now. So I thank
25 you for the opportunity and look forward to hopefully

1 participating.

2 Thank you.

3 RD AIR POLLUTION SPECIALIST LÓPEZ: Thank you.

4 Now, I would like to call on Professor Bahreini to please
5 share your camera

6 DR. ROYA BAHREINI: Good morning. Thank you,
7 everyone for your time. I'd just like to take this
8 opportunity to say a few words. When I tell my students
9 about the history of CARB and what has been achieved since
10 its establishment, I always tell them that these past
11 decades have been a real good example of how scientists,
12 engineers, regulators, and stakeholders can work together
13 to improve air quality in California. And if I'm approved
14 today to join the Committee, it will be really a great
15 honor to be part of this organization and help achieve
16 CARB's mission for improving air quality in California,
17 controlling climate change, and continue being really a
18 pioneer organization as it has been in the last decades
19 for the rest of the world.

20 Thank you for your time.

21 RD AIR POLLUTION SPECIALIST LÓPEZ: Thank you.

22 And I would like to call on Professor Hopkins to please
23 share your camera.

24 DR. FRANCESCA HOPKINS: Good morning. Thank you
25 for having me here and thanks to the selection committee

1 for considering my application.

2 I'm really excited, because California has been
3 at the forefront of climate change mitigation and
4 adaptation. And that's the area where I focus my research
5 efforts. And California also has been a leader both
6 globally and nationally in addressing air pollution
7 problems. And California and CARB specifically has a
8 unique role as a leader and a proving ground for emission
9 reduction efforts, both for greenhouse gases and the air
10 quality arena.

11 New research is needed to support mitigation and
12 improve our understanding of how we can achieve these
13 goals and practice. And I see CARB as being really
14 fundamental to this. And as a researcher, I'm deeply
15 invested in developing research ideas in support of
16 emission reduction goals that ideally have an optimal
17 benefit for air quality and equity in tandem. And I hope
18 in this Committee to use my research expertise to help
19 develop future research plans in support of CARB's mission
20 and goals.

21 So I really am hoping I can contribute my
22 understanding of the complexity of the controls on
23 greenhouse gas emissions from both human and natural
24 systems and how they vary in space and time. And I really
25 hope that we in this context can talk and consider deeply

1 how we can effectively manage greenhouse gases in the
2 context of protecting our broader environment and way of
3 life in California, while ensuring environmental and
4 climate justice for our communities. And I note that both
5 the inland parts of Southern California and the San
6 Joaquin Valley are particularly vulnerable to the effects
7 of climate change, in addition to the air pollution
8 problems we already have.

9 So I also am really proud to represent the
10 University of California, Riverside and our region, the
11 Inland Empire of Southern California, that are currently
12 underrepresented at the State level in many ways. And so
13 I'm hoping that through being on the Research Screening
14 Committee both UCR and the Inland Empire can have a seat
15 at the table with the importance of air quality research
16 and issues in the state.

17 Thank you.

18 RD AIR POLLUTION SPECIALIST LÓPEZ: Thank you.

19 Now, I would like to call Dr. Hubbell to please
20 share your camera.

21 DR. BRYAN HUBBELL: Okay. Hold on just one
22 second. I'm having to do this with my non-dominant hand
23 for just a moment.

24 Okay. So I appreciate being here. I look a
25 little casual, because on Tuesday I'd to have shoulder

1 replacement surgery, so I'm still in the stage of getting
2 used to my sling and having to do everything with my
3 offhand.

4 But I wanted to just say how much I appreciate
5 the opportunity to work with CARB. And John, I appreciate
6 your very kind comments about the work we did with BenMAP
7 over time, and EPA. And, you know, one thing I wanted to
8 note is that I very much appreciate the comments of the
9 Board members about the need to have, you know, a diverse
10 screening committee and the importance of having those
11 lived experiences represented on the Committee. And, you
12 know, I obviously don't have that ability to bring that,
13 but what I do bring is the experiences of our research
14 program at EPA, which has really been ramping up to
15 address the twin challenges of climate change and
16 environmental justice. These are priorities that the
17 Biden Administration administrator Regan at EPA have
18 really emphasized and we're trying to reflect that in our
19 scientific programs.

20 And so we've really been thinking over the last
21 several years about how we can build a program that really
22 embodies that integration of environmental justice and
23 considerations of equity throughout our research programs,
24 which is not just siloed into one area. And I want to
25 bring that same perspective to the way I can interact with

1 this Screening Committee.

2 So I think it's a real opportunity for us to work
3 together, for EPA to work with CARB to be able to leverage
4 the various different research efforts that we have
5 underway with yours and to be able to really think about
6 ways that, where possible, we can -- we can share
7 information, and share data, and share results in ways
8 that enhance our ability at the national level and at the
9 State level to be able to implement effective
10 evidence-based solutions.

11 One thing I did want to also highlight too is
12 that we have been working very hard to also think about
13 ways to integrate social sciences and natural sciences
14 together to solve problems. And I think that's a
15 perspective that you all share as well based on your most
16 recent Strategic Plan. And I think it's something that I
17 can bring to this because of my background in a wide range
18 of air quality related -- air quality and climate related
19 research, including public health and economics, as well
20 as more traditional air quality related -- it looks like
21 air quality modeling.

22 So again, I'm Just really excited about working
23 with everyone on this -- on this Committee and we're
24 working with the Board. I did want to note that we also
25 have been doing a lot of work recently with communities

1 directly. We're building up our ability to do
2 co-production research, so I will bring that perspective
3 as well that I think is really important when thinking
4 about engaging with communities about research is to think
5 about bringing them directly into the research process
6 itself.

7 And the last thing I'll note is just on a
8 personal basis, my son lives in Los Angeles -- just
9 outside of Los Angeles in Burbank, and so I have a pretty
10 direct connection to some of the most horrific types of
11 air pollution we see down there. And then also the -- I
12 am very aware and concerned about the growing threats from
13 wildfires and the smoke that they cause. And our program
14 is doing a lot of work in that area. And again, we look
15 forward to working with CARB to try to solve some of these
16 problems. So thank you again for being part of this.

17 RD AIR POLLUTION SPECIALIST LÓPEZ: Thank you.

18 And now I would like to call on Dr. Silva to
19 please share your camera.

20 DR. SAM SILVA: Hi. Thank you all for
21 considering me for this position and for all the work that
22 you put into the detailed interview process. I share -- I
23 share many of the feelings with the past -- with the past
24 speakers, so it's a difficult to act to follow, but I will
25 just say in brief that I'm very, very enthusiastic about

1 the opportunity to work with CARB. I view it as a very
2 important organization, both locally and nationally. And
3 so any contribution I can make towards the efforts of CARB
4 to address both air quality issues and climate issues is
5 something that is of deep sort of personal interest to me.

6 I'm interested in this -- the RSC specifically
7 for both professional and personal reasons. Like many of
8 the other candidates here, I live in southern -- in
9 California. I live in Eastern LA County and I have two
10 young children. And we sometimes play a game with whether
11 or not we can see the mountains, depending on how bad the
12 ozone air quality is in the area. And that -- while it's
13 a cute game to hear a two-year old play, it's often a
14 little bit demoralizing as an air quality scientist of
15 course.

16 From a professional perspective, the group that I
17 lead at USC is really focused on these big data analytics,
18 these data science and machine learning techniques as
19 applied to atmospheric chemistry and composition. And
20 while I believe that these techniques are very powerful
21 and can do a lot to help us address these environmental
22 crises, there are major issues with these techniques, both
23 from the perspective of robustness and justice and equity
24 in predictions. And this is something that I care deeply
25 about and would look forward to bringing my perspective on

1 to the RSC.

2 So thank you.

3 RD AIR POLLUTION SPECIALIST LÓPEZ: Thank you,
4 Chair. That concludes the opening -- the introductory
5 remarks on the RSC candidates. Thank you.

6 CHAIR RANDOLPH: Thank you so much. What an
7 impressive group of people. I'm so excited that you're
8 going to be participating in this process, and helping us
9 work on these important issues, and really invigorating
10 our research program. So with that, now I will accept a
11 motion.

12 BOARD MEMBER BALMES: So I move acceptance of
13 these candidates.

14 CHAIR RANDOLPH: Is there a second?

15 BOARD MEMBER HURT: I'll second.

16 BOARD MEMBER PACHECO-WERNER: Second.

17 CHAIR RANDOLPH: We have many seconds.

18 (Laughter).

19 CHAIR RANDOLPH: Clerk, will you please call the
20 roll.

21 BOARD CLERK GARCIA: Yes. Dr. Balmes?

22 BOARD MEMBER BALMES: Yes.

23 BOARD CLERK GARCIA: Mr. De La Torre?

24 BOARD MEMBER DE LA TORRE: Yes.

25 BOARD CLERK GARCIA: Mr. Eisenhut?

1 BOARD MEMBER EISENHUT: Yes.

2 BOARD CLERK GARCIA: Senator Florez?

3 BOARD MEMBER FLOREZ: Florez, aye.

4 BOARD CLERK GARCIA: Ms. Hurt?

5 BOARD MEMBER HURT: Aye.

6 BOARD CLERK GARCIA: Mr. Kracov?

7 BOARD MEMBER KRACOV: Yes.

8 BOARD CLERK GARCIA: Dr. Pacheco-Werner?

9 BOARD MEMBER PACHECO-WERNER: Yes.

10 BOARD CLERK GARCIA: Mrs. Riordan?

11 BOARD MEMBER RIORDAN: Aye.

12 BOARD CLERK GARCIA: Supervisor Serna?

13 BOARD MEMBER SERNA: Aye.

14 BOARD CLERK GARCIA: Professor Sperling?

15 BOARD MEMBER SPERLING: Aye.

16 BOARD CLERK GARCIA: Supervisor Vargas?

17 Vice Chair Berg?

18 VICE CHAIR BERG: Enthusiastically --

19 BOARD MEMBER VARGAS: Vargas aye. I'm sorry I

20 couldn't find my mute.

21 BOARD CLERK GARCIA: No problem. Thank you.

22 Vice Chair Berg?

23 VICE CHAIR BERG: Enthusiastically and

24 gratefully, yes.

25 BOARD CLERK GARCIA: Chair Randolph?

1 CHAIR RANDOLPH: Yes. And again, thank you to
2 the Committee member for being willing to serve in this
3 role. It's incredibly important and we really deeply
4 appreciate it.

5 Okay. The last item on the agenda is Item number
6 22-16-4, the 2022 legislative update. If you are here
7 with us in the room and wish to comment on the item,
8 please fill out a request-to-speak card. If you are
9 joining us remotely and wish to comment, please click the
10 raise hand button or dial star nine now and we will call
11 on you when we get to the public comment portion of this
12 item.

13 2022 was a very big year in the Legislature for
14 CARB and for the state overall, as we saw the passage of
15 many critical bills that will help move the needle on
16 California's climate, air quality, and equity goals. Of
17 particular note is the passage of the Governor's climate
18 package, which includes groundbreaking measures critical
19 to CARB's mission, such as establishing in law a goal of
20 carbon neutrality by 2045, establishing new setback
21 measures, protecting communities from oil drilling,
22 setting the stage for responsible deployment of carbon
23 capture technology, advancing nature-based solutions, and
24 much more.

25 In addition to the passage of important

1 legislation, the Legislature also appropriated a historic
2 level of funding to CARB and its sister agencies to
3 support and accelerate the transition of the
4 transportation sector to zero-emission. These investments
5 are aimed at decarbonizing California's most polluting
6 sectors and improving public health.

7 The new legislative session that began in
8 December of this year started a little differently with
9 the opening of a concurrent special session requested by
10 Governor Newsom. The purpose of the special session is to
11 consider his price gauging penalty proposal on oil
12 companies and increase State oversight of the gasoline
13 market. This is the first time a Governor has proclaimed
14 a special session in six years.

15 The support of the California Legislature is
16 critical to CARB's success in ensuring clean air and
17 preventing the worst impacts of climate change. We are
18 excited to see what comes out of this special session and
19 to continue to work together towards a healthy future for
20 all Californians.

21 Dr. Cliff, would you please introduce the item.

22 EXECUTIVE OFFICER CLIFF: Thank you, Chair
23 Randolph.

24 As you mentioned, this legislative session will
25 not only have a significant impact on CARB's mission, but

1 change the trajectory of the entire state by advancing our
2 climate and air quality goals.

3 The climate package commits CARB to several new
4 responsibilities, such as creating a new carbon removal
5 and sequestration program that must be consistent with
6 existing permitting and public health and safety
7 requirements, developing methods for multiple agencies to
8 set targets and track reductions from natural and working
9 lands, approving leak detection and repair plans for oil
10 and gas wells near vulnerable communities, and undertaking
11 a variety of other actions that expand the state's fight
12 against climate change.

13 Also notable was the passage of SB 1206 by
14 Senator Skinner that provides a critical regulatory
15 framework for transitioning our economy away from reliance
16 on hyper potent hydrofluorocarbons, which have global
17 warming potential thousands of times higher than carbon
18 dioxide.

19 Assembly Bill 2836 by Assemblymember and Board
20 Member Garcia, among other things, extended fee authority
21 and important policy provisions associated with reducing
22 particulate matter emissions from the Carl Moyer Program.

23 Finally, as noted by the Chair, the Legislature
24 continues to show its support for the rapid
25 electrification of the transportation sector, by investing

1 a total of \$3 billion in CARB's incentive programs. These
2 programs are designed to accelerate the transition to
3 zero-emission technologies across a wide range of economic
4 sectors and industries. Given the funding opportunities
5 at both the State and federal levels, we have a
6 once-in-a-lifetime opportunity to leverage both and
7 accelerate the development of clean technology.

8 I will now ask Nicole Hutchinson of the Office of
9 Legislative Affairs to begin the staff presentation.

10 Nicole.

11 (Thereupon a slide presentation).

12 LEGISLATIVE ANALYST HUTCHINSON: Thank you, Dr.
13 Cliff.

14 Good morning, Chair and Members. My name is
15 Nicole Hutchinson. I work -- and I work in the California
16 Air Resources Board Office of Legislative Affairs. Today,
17 I will be providing you an overview of this past year's
18 Legislative Session.

19 --o0o--

20 LEGISLATIVE ANALYST HUTCHINSON: During today's
21 presentation, I will cover notable legislation, the
22 budget, key bill statistics from the last year, and
23 finally I'll provide an update on the makeup of the
24 Legislature in light of last month's elections and touch
25 on the special session.

1 --o0o--

2 LEGISLATIVE ANALYST HUTCHINSON: It was an
3 eventful session for CARB, most notably for the passage of
4 Governor Newsom's ambitious climate package, proving yet
5 again that California is a global leader in setting
6 aggressive climate policy. Legislation of particular note
7 for CARB in the climate package includes AB 1279, SB 905,
8 AB 1757, SB 1137, and SB 1020, which I will discuss
9 further -- in further detail in the next few slides.

10 --o0o--

11 LEGISLATIVE ANALYST HUTCHINSON: AB 1279 by
12 Assemblymember Muratsuchi establishes a clear, legally
13 binding, and achievable goal for California to achieve
14 statewide carbon neutrality as soon as possible, and no
15 later than 2045, and establishes an 85 percent
16 anthropogenic emissions reductions target as part of that
17 goal. AB 1279 also requires CARB to ensure that the
18 Scoping Plan updates include policies and strategies that
19 would enable carbon dioxide removal solutions and carbon
20 capture -- sorry, carbon capture utilization and storage
21 technologies. The climate package and this legislation
22 demonstrates California's commitment to lead on climate
23 policy and achieve net zero greenhouse gas emissions on or
24 before 2045.

25 --o0o--

1 LEGISLATIVE ANALYST HUTCHINSON: The
2 International Panel on Climate Change and CARB's own
3 modeling in the 2022 Scoping Plan Update makes it clear
4 that the carbon capture and sequestration and carbon
5 dioxide removal will be essential tools for achieving
6 carbon neutrality. The Legislature has recognized the
7 long-term need for these projects by adopting SB 905 by
8 Senator Caballero, which creates the State's first
9 statutory framework for the use of these technologies,
10 including requirements for CARB to evaluate projects and
11 track their deployment.

12 --o0o--

13 LEGISLATIVE ANALYST HUTCHINSON: AB 1757 by
14 Assemblymember C. Garcia is landmark legislation in the
15 Natural and Working lands space, because it is the first
16 statutory requirement for State agencies, led by CNRA, to
17 set targets for natural carbon sequestration and
18 nature-based climate solutions. The targets must be
19 integrated into the Scoping Plan updates and other State
20 policies to support achieving carbon neutrality by 2045.
21 And CARB is also required to develop methods to track
22 emissions and reductions on natural and working lands to
23 facilitate this effort.

24 CNRA has already started a public solicitation
25 for an advisory committee to support this effort and Dr.

1 Cliff will be part of that process to approve those
2 committee members.

3 --o0o--

4 LEGISLATIVE ANALYST HUTCHINSON: The Legislature
5 has also recognized that while we transition away from
6 fossil fuels, frontline communities need greater
7 protections from emissions from oil and gas extraction
8 activities. SB 1137 by Senator Gonzalez creates new
9 setback requirements that preclude the development of new
10 oil and gas wells and infrastructure in health protection
11 zones. These zones are defined as areas within 3,200 feet
12 of sensitive receptors such as schools, community centers,
13 and health care facilities. SB 1137 also importantly
14 contains extensive monitoring and leak detection and
15 repair requirements for existing wells within these zones.

16 --o0o--

17 LEGISLATIVE ANALYST HUTCHINSON: SB 1020 by
18 Senator Laird imparts new vigor into the State's
19 transition to a clean energy future by establishing
20 interim renewable and zero carbon energy targets,
21 including a 90 percent target in 2035 and 95 percent in
22 2040. This bill will all -- this bill also requires State
23 agencies to rely on 100 percent renewable energy and zero
24 carbon resources by 2030 and establishes a Climate and
25 Equity Trust Fund to address rising electricity rates.

1 Also, of relevance for CARB, this bill adds to
2 CARB's robust public process by requiring CARB to hold
3 Scoping Plan workshops in federal extreme non-attainment
4 areas with an aim to better engage with minority and
5 low-income communities in the development of this critical
6 plan.

7 --o0o--

8 LEGISLATIVE ANALYST HUTCHINSON: While not
9 technically a part of the Governor's climate package, SB
10 1206 by Senator Skinner was a critically important piece
11 of climate policy. The bill prohibits the sale of bulk
12 high global warming potential hydrofluorocarbons, commonly
13 called HFCs, over a period of time shown on the slide.
14 The bill also establishes a regulatory framework to
15 transition the State to the use of reclaimed or recycled
16 HFCs, which are powerful short-lived climate pollutants
17 with GWP thousands of times higher than that of
18 carbon dioxide. While CARB already regulates HFCs in new
19 products, HFC equipment often lasts 10 to 20 years, which
20 means there's a need to recover and reuse reclaimed HFCs
21 in existing air conditioning or refrigeration equipment
22 while the market for very low GWP equipment is getting
23 established.

24 --o0o--

25 LEGISLATIVE ANALYST HUTCHINSON: Beyond climate

1 legislation, the Legislature also put forward its first
2 significant statutory update to the AB 617 Program, a
3 program focused on reducing air pollution at the community
4 level. AB 1749 by Assemblymember C. Garcia requires air
5 districts' annual AB 617 reports to describe how existing
6 Community Emissions Reduction Programs, or CERPs, have
7 been updated to align with the latest AB 617 Blueprint.
8 This provision ensures that CERPs developed during the
9 early years of the program continue to evolve with the
10 latest guidance. Additionally, the bill requires air
11 districts with a population of over one million to post
12 all stationary source permits on their websites.

13 --o0o--

14 LEGISLATIVE ANALYST HUTCHINSON: Now, turning to
15 the budget. In addition to approving over two dozen of
16 CARB's budget change proposals, the Legislature continued
17 unprecedented levels of investment in CARB's programs and
18 incentives via the appropriation of over \$3 billion just
19 this year. The Budget included \$310M in funding for the
20 AB 617 Community Air Protection program, which includes
21 incentive funding, district ops, and technical assistance
22 to community groups. The budget also included \$150
23 million for CARB's FARMER Program, \$130 million for CARB's
24 Carl Moyer program, and \$45 million for CARB's F-Gas
25 Reduction Incentive Program and Equitable Building

1 Decarbonization programs

2 The Legislature also approved \$105 million in
3 funding for the production of eight satellites that will
4 enable CARB to monitor and quickly identify methane leaks,
5 with \$5 million of this for technical assistance grants to
6 community-based organizations to support community input
7 and engagement around the methane monitoring data. The
8 data will be made available to the public and lead to
9 enhanced implementation of existing methane regulations.

10 Additionally, building on last year's
11 investments, the Legislature appropriated -- sorry,
12 appropriated approximately \$2.6 billion as part of the ZEV
13 package, which we'll discuss further on the next slide.

14 --o0o--

15 LEGISLATIVE ANALYST HUTCHINSON: Over the last
16 two budget sessions, Governor Newsom and the California
17 Legislature agreed to a transformational \$10 billion
18 investment package over six years to accelerate the
19 transition of the transportation sector to zero emissions,
20 with a focus on the communities most impacted by
21 pollution. These groundbreaking investments are aimed at
22 improving public health by decarbonizing California's most
23 polluting sector. The implementation of these funds is a
24 coordinated effort among the State's air quality,
25 transportation, energy, and business development agencies.

1 As you all saw last month with the adoption of
2 the funding plan, CARB received a total of \$2.6 billion in
3 funding this year as a part of the ZEV package. And this
4 funding includes: over a billion dollars to electrify
5 California's school bus fleet which will go a long way to
6 reducing harmful exposure to air pollution for school
7 children; \$381 million in funding for CARB's suite of
8 equity programs, including the Clean Cars 4 All Program,
9 the Clean Vehicle Assistance Program, the Clean Mobility
10 Options program, and the new Zero-Emission Assurance
11 Project.

12 The Legislature also appropriated \$600 million
13 for Heavy-Duty and Off-Road Incentive programs, including
14 programs like HVIP and CORE. And in addition to the \$600
15 million, the Legislature also dedicated \$157 million
16 specifically for drayage trucks, \$70 million for transit
17 buses, \$60 million for commercial harbor craft, and \$53
18 million for the emerging opportunities program, which
19 funds pilot and demonstration projects.

20 --o0o--

21 LEGISLATIVE ANALYST HUTCHINSON: Additionally,
22 the Legislature also adopted language signaling their
23 intent to provide \$10 million in next year's budget for
24 CARB to assist with what the Legislature called the
25 necessary transition away from the use of hexavalent

1 chromium. This signal from the Legislature is an
2 important one as CARB staff moves forward with a proposal
3 to amend the Chrome Plating Air Toxic Control Measure to
4 further reduce harmful cancer-causing emissions from
5 chrome plating operations. Staff is expected to present
6 concepts to the Board in January and April of 2023.

7 --o0o--

8 LEGISLATIVE ANALYST HUTCHINSON: In addition to
9 appropriating significant funds in the budget, the
10 Legislature also passed AB 2836 by Assemblymember and
11 Board Member Eduardo Garcia, which extends critical
12 incentive funding for emissions reduction programs
13 administered by both the State and the air districts,
14 including the Carl Moyer Program, the AB 923 program, and
15 other special district funds for air quality related
16 incentive programs.

17 --o0o--

18 LEGISLATIVE ANALYST HUTCHINSON: Having covered
19 the highlights in terms of bills and budget, I want to
20 turn the discussion to key statistics for the last year.
21 In 2022, legislative members introduced over 2,000 bills,
22 and of those, CARB's Office of Legislative Affairs tracked
23 452 bills and resolutions related to air quality and
24 climate and analyzed 131 of those bills.

25 --o0o--

1 LEGISLATIVE ANALYST HUTCHINSON: In terms of
2 Legislation analyzed by CARB, unsurprisingly nearly a
3 third of the bills analyzed related to climate change
4 policy with introduced bills ranging in objectives from
5 setting new climate goals broadly, to bills targeting
6 short-lived climate pollutants, as well as bills targeting
7 industry specific sources of greenhouse gas emissions.

8 The next leading category is incentives. This
9 category includes legislation relating to CARB's multitude
10 of incentive programs, such as the Carl Moyer or the Clean
11 Cars 4 All program, as well as administering requirements
12 to incentive programs funded by the Greenhouse Gas
13 Reduction Fund.

14 Following incentives, other areas of interest
15 include bills aimed at improving air quality, bills
16 relating to zero-emission vehicle and infrastructure
17 deployment, and energy policy.

18 --o0o--

19 LEGISLATIVE ANALYST HUTCHINSON: As this graph
20 illustrates, the number of bills that the Office of
21 Legislative Affairs tracked and analyzed over the last
22 decade continues to trend upward, with this year breaking
23 our legislative -- or legislation analyzed record. The
24 oscillation that you see generally coincides with the
25 first and second year of the two-year legislative cycle,

1 with the second year typically having more bills than the
2 first. A full summary of the bills that we tracked can be
3 found on CARB's website using the link included on this
4 slide.

5 --o0o--

6 LEGISLATIVE ANALYST HUTCHINSON: Before I
7 conclude this presentation, it's worth briefly touching on
8 the outcome of the November elections. A combination of
9 redistricting and term limits resulted in 37 of the 120
10 current legislators leaving their seats. Despite this
11 enormous change in individual representation, ultimately
12 there will be no significant change in the partisan makeup
13 of the Legislature as the Democrats will retain their
14 supermajority status.

15 --o0o--

16 LEGISLATIVE ANALYST HUTCHINSON: Additionally, on
17 December 5th, the Legislature welcomed its new members and
18 opened a special session requested by Governor Newsom to
19 consider a financial penalty on oil companies' excessive
20 profit margins as a way of determining -- deterring price
21 gouging. The special session will run concurrent with the
22 regular session.

23 --o0o--

24 LEGISLATIVE ANALYST HUTCHINSON: The Office of
25 Legislative Affairs relies on close coordination from a

1 dedicated team, as well as collaboration with staff in
2 every division across CARB. We are incredibly grateful
3 for the support of all CARB staff who make our work
4 possible. Their assistance and expertise are invaluable.

5 Thank you for the opportunity to provide an
6 overview of legislative actions from the last year. Our
7 Legislative Director, David Garcia and I are happy to
8 answer any questions you may have.

9 CHAIR RANDOLPH: All right. Thank you.

10 Clerk, are there any public comment on this item?

11 BOARD CLERK GARCIA: No commenters for this item.

12 CHAIR RANDOLPH: All right. Board members, any
13 questions or comments.

14 It looks like nothing on Zoom either, so I think
15 we are ready to -- oh, okay, Vice Chair Berg.

16 VICE CHAIR BERG: I would just like to say, you
17 know, the Legislative Office often, you know, you're just
18 under radar a lot on the -- on the screen here, but, oh,
19 my gosh, the work that you do, how important it is to have
20 those relationships across the street. It is critical to
21 us being successful. So we certainly appreciate this
22 update. It's -- the amount of work is, as shown on your
23 slide, absolutely is trajecting upwards, and probably the
24 future does not indicate a slow down. So we truly do
25 appreciate your department, everybody's efforts, and you

1 make us shine, and we really, really want to say thank
2 you. So great job.

3 BOARD MEMBER BALMES: And Chair Randolph could
4 I add one little thing, since Vice Chair Berg opened the
5 door? So Ashley Arax is my former student. I hope she's
6 doing well.

7 LEGISLATIVE DIRECTOR GARCIA: She is. She would
8 have been here today, except she caught some sniffles and
9 didn't want to expose anyone else, but she is listening
10 online.

11 BOARD MEMBER BALMES: Hope you feel better,
12 Ashley.

13 CHAIR RANDOLPH: All right. Thank you and thank
14 you Vice Chair Berg. The Legislative office is very
15 critical to our work and they do work really hard. And I
16 also want to give a shout-out to our program staff who has
17 to respond to these really quick frequently last minute
18 urgent requests and gather information and share it with
19 our legislative staff to make -- to make their jobs more
20 effective. So I really appreciate the work of all of the
21 staff in supporting our legislative team and the
22 importance of the work they are doing.

23 This is an informational item, so we don't need
24 to take a vote or anything. So thank you again for your
25 work and thank you for that summary. I think it was a

1 really important year for climate action and really
2 appreciate the work of the Governor and the Legislature.

3 Okay. Do we have any public comment for items
4 not on the agenda?

5 BOARD CLERK GARCIA: No commenters.

6 CHAIR RANDOLPH: Okay. And we do have a couple
7 of Board members who are -- for whom this is their last
8 meeting and we are going to be -- in January, we're going
9 to be in Riverside, so we're going to celebrate Board
10 Member Riordan in Riverside closer to her home, so she can
11 join us in person. But Supervisor Serna, this is also
12 going to be his last meeting and he wanted to say a few
13 words.

14 BOARD MEMBER SERNA: Thank you, Chair. I won't
15 be long, but I guess I'll start with just a note of
16 extreme thanks. Start with the staff. As I've mentioned
17 many times before, it's very humbling and it's been an
18 extraordinary experience working with what I sincerely
19 believe to be the most committed and smart people in State
20 service, and I mean that. It's something very special to
21 me that I had this opportunity to be surrounded by this
22 intellectual trust that does the work that they do, that
23 is focused obviously on public health, and addressing the
24 impacts of climate change. And it's just been a very
25 unique opportunity for the last almost 10 years serving on

1 this Board.

2 I do want to thank all of the Board members, past
3 and present, that I've had the great opportunity of
4 serving with. I don't just consider you colleagues, I
5 consider you friends. And I've come to know you
6 personally and admire your dedicated service as well and
7 would hope that we certainly stay in contact. And as you
8 though, I have the shortest commute to these meetings --

9 (Laughter).

10 BOARD MEMBER SERNA: -- with my office just two
11 blocks away. And so it probably shouldn't shock you that
12 I'll be checking in once in awhile, either maybe in
13 person, but, you know, certainly over CAL-SPAN.

14 And I do want to also extend my thanks to our
15 former Chair, Mary Nichols. She -- I consider her a
16 mentor and she entrusted me with a couple of very specific
17 initiatives during her tenure, while I was on the Board
18 serving with her. And Rajinder actually mentioned one
19 earlier in terms of the racial equity resolution. And
20 also working closely as a conduit from this Board to the
21 EJAC, I think it was actually during the last Scoping Plan
22 update.

23 You know, I don't want to say too much more,
24 because I know that there's going to be some mention of
25 both Member Riordan's and my presence and service on this

1 Board. But it is very, very special to me that I've had
2 the opportunity to serve not with the -- not just with the
3 people, but in this building that bears my late father's
4 name, Joe Serna, Jr., who was our Mayor here in the City
5 of Sacramento. And you know, not a lot of people can say
6 that, so that's always been a very special part of the
7 service here.

8 Of course, I want to thank Governor Brown for
9 appointing me and past Assembly Member and my predecessor
10 on the Board of Supervisors, Roger Dickinson who actually
11 carried the legislation to add a -- to finally add a
12 Sacramento region dedicated member to represent the five
13 air districts in this part of California. So it's also
14 been an honor to be kind of the first to do that.

15 And again, I just want to just make sure people
16 understand how people here understand how much I have
17 appreciated your friendship. And to all the
18 administrative staff, Tracy and Evan, and all those that
19 do so much to make these meetings run and function very
20 smoothly, I want to send my thanks to you too.

21 So I appreciate the few minutes Madam Chair to
22 say these words. But because I won't be able to join my
23 colleagues and staff in Riverside, I thought I'd be remiss
24 if I didn't put these -- make note of how grateful I am.

25 Thank you

1 CHAIR RANDOLPH: Thank you.

2 Board Member De La Torre.

3 BOARD MEMBER DE LA TORRE: This is not great.

4 (Laughter).

5 BOARD MEMBER BALMES: I second that.

6 BOARD MEMBER DE LA TORRE: Phil is a true public
7 servant. He didn't have to do this. You know, he's got
8 plenty to do as a supervisor two blocks away, but he is --
9 there's no ulterior motive. There's no BS. Very
10 straightforward. He believes what he believes and that's
11 it. And there's no horse trading, none of the negative
12 connotations of a politician. And to me that's the bar is
13 are you a public servant or are you a politician, because
14 there's plenty of the latter. And what I found with Phil,
15 as a former elected official, is that he is very much a
16 public servant and willing to sacrifice things,
17 self-interest in terms of the region he represents for the
18 good of the state of California.

19 And it's really hard for people in this kind of a
20 setting to set aside their outside role and come here and
21 be a policymaker, not an advocate, a policymaker, for the
22 people of California. And I never ever doubted for a
23 second what Phil was here to do, that he was here to make
24 as good policy as can be made for the people of
25 California.

1 So for that, I'm sorry to see you leave, but
2 thank you.

3 BOARD MEMBER SERNA: Thank you

4 CHAIR RANDOLPH: Dr. Sperling.

5 BOARD MEMBER SPERLING: Yeah, I want to add to
6 what Hector just said, you know, exactly. You know, I've
7 been on the Board -- I've overlapped with Phil the whole
8 time he's been on the Board. And it's just -- I've just
9 come to admire Phil so much. It really is a huge loss to
10 us. I mean, he's got -- you know, to play off of the idea
11 of politician, he's not here to, you know, promote
12 himself, to just draw attention. He really contributes
13 where he has something to contribute. He's -- I should
14 point out he's got such a big part. He does so many
15 things outside that are so -- you know, so impressive.
16 Great musician on top of that. And, you know, he's
17 brought a perspective to the Board, you know, in terms of
18 local government, regional, some of the issues there that
19 we don't always fully appreciate. So Phil has just been
20 one of the best Board members we've had and I am so sad
21 that he's leaving. But thank you, Phil. You've been
22 great and it's been wonderful serving with you.

23 BOARD MEMBER SERNA: Thank you.

24 CHAIR RANDOLPH: Dr. Pacheco-Werner.

25 You're muted.

1 BOARD MEMBER PACHECO-WERNER: Can you hear me?

2 CHAIR RANDOLPH: Yes, now we can hear you.

3 BOARD MEMBER PACHECO-WERNER: Sorry. I just
4 really want to thank Supervisor Serna for your help being
5 on the Board. I know I only got to meet you a short time,
6 but really, really thankful for everything that you've
7 done and just a pleasure. And I wish you the best and
8 thank you for your service to all of the things that you
9 do. Thank you.

10 BOARD MEMBER SERNA: Thank you.

11 CHAIR RANDOLPH: All right. Dr. Balmes.

12 BOARD MEMBER BALMES: I'll be brief. Thank you,
13 Mr. Bassman.

14 (Laughter).

15 BOARD MEMBER SERNA: Thank you.

16 CHAIR RANDOLPH: Vice Chair Berg.

17 VICE CHAIR BERG: Thank you, Phil. We got to
18 work together on some of those key projects. It has just
19 been a delight. I echo all of my colleagues' comments and
20 delighted that we will end our friends and look forward to
21 the next unsupervised performance.

22 (Laughter).

23 VICE CHAIR BERG: So enjoy the holidays and we'll
24 have lunch. Thanks.

25 BOARD MEMBER SERNA: Great. Thank you.

1 CHAIR RANDOLPH: Board Member Riordan.

2 BOARD MEMBER RIORDAN: Yes. I just want to say
3 thank you to Supervisor Serna, because he was sort of my
4 colleague in always reminding the Board about the
5 differences between the very large air pollution control
6 districts and those of us who live in the more rural
7 smaller air pollution control districts, and how our rules
8 sometimes don't fit every air pollution control district
9 equally. So I shall miss him very much and wish him the
10 best and hope that he does remain a resource for the
11 Board.

12 BOARD MEMBER SERNA: Thank you, Barbara.

13 CHAIR RANDOLPH: Okay. And I'll just add that
14 like -- I think Board Member De La Torre said it
15 perfectly, this is not great.

16 (Laughter).

17 CHAIR RANDOLPH: So I will be -- I will miss you
18 very much and your sort of wise counsel and participation
19 on this Board. And the people of the County of Sacramento
20 are so incredibly fortunate to have you as their
21 supervisor. And we will miss you very, very much on this
22 Board, and -- but I know you have a lot to do and a lot to
23 give to the people of Sacramento, so I really appreciate
24 working with you these last few years.

25 BOARD MEMBER SERNA: Thank you, Chair.

1 CHAIR RANDOLPH: All right. On that note, I
2 think we are ready to adjourn and we will -- I wish you
3 all a Happy Holidays and we will see you in January.

4 Thank you.

5 (Thereupon the Air Resources Board meeting
6 adjourned at 9:53 a.m.)

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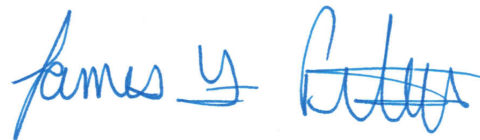
CERTIFICATE OF REPORTER

I, JAMES F. PETERS, a Certified Shorthand Reporter of the State of California, do hereby certify:

That I am a disinterested person herein; that the foregoing California Air Resources Board meeting was reported in shorthand by me, James F. Peters, a Certified Shorthand Reporter of the State of California, and was thereafter transcribed, under my direction, by computer-assisted transcription;

I further certify that I am not of counsel or attorney for any of the parties to said meeting nor in any way interested in the outcome of said meeting.

IN WITNESS WHEREOF, I have hereunto set my hand this 5th day of January, 2023.



JAMES F. PETERS, CSR
Certified Shorthand Reporter
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