

MEETING
STATE OF CALIFORNIA
AIR RESOURCES BOARD

ZOOM PLATFORM

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

THURSDAY, NOVEMBER 17, 2022

9:03 A.M.

JAMES F. PETERS, CSR
CERTIFIED SHORTHAND REPORTER
LICENSE NUMBER 10063

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

Senator Connie Leyva

Tania Pacheco-Werner, PhD

Barbara Riordan

Supervisor Phil Serna

Professor Dan Sperling, PhD

Diane Takvorian

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

APPEARANCES CONTINUED

STAFF:

Edna Murphy, Deputy Executive Officer, Internal Operations

Rajinder Sahota, Deputy Executive Officer, Climate Change and Research

Craig Segall, Deputy Executive Officer, Mobile Sources and Incentives

Ellen Peter, Chief Counsel

Peter Christensen, Branch Chief, Innovative Strategies Branch, Mobile Source Control Division (MSCD)

Nathan Dean, Air Pollution Specialist, Heavy Duty Off-Road Strategies Branch, MSCD

Graciela Garcia, Air Pollution Specialist, MSCD

Alexandra Kamel, Senior Attorney, Legal Office

Johanna Levine, Manager, Off-Road Implementation Section, MSCD

Rebecca Maddox, Senior CEQA Attorney, Legal Office

Lisa Macumber, Innovative Light-Duty Strategies Section, MSCD

April Molinelli, Senior Attorney, Legal Office

Lucina Negrete, Assistant Division Chief, MSCD

Scott Rowland, Branch Chief, Incentives and Technology Advancement Branch, MSCD

Maritess Sicat, Branch Chief, Heavy Duty Off-Road Strategies Branch, MSCD

Sydney Vergis, Division Chief, MSCD

APPEARANCES CONTINUED

ALSO PRESENT:

Angela Abuda, Environment California

Nicholas Armstrong, Teichert Materials

Lorna Avila, T.R.U.S.T. South LA

David Avina, Los Angeles Cleantech Incubator

Graham Balch, Green Yachts

Daniel Barad, Sierra Club California

Will Barrett, American Lung Association

Rebecca Baskins, California Advanced Biofuels Alliance,
Clean Fuels Alliance America

Todd Bloomstine, Southern California Alliance for Jobs

Mike Buckantz, Associates Environmental

Teresa Bui, Pacific Environment

Michael Caprio, Republic Services

Christopher Chavez, Coalition for Clean Air

Brent Coffey, Sunbelt Rentals

Kristian Corby, California Electric Transportation
Coalition

Matt Cremins, California-Nevada Conference of Operating
Engineers

Tyson Eckerle, Governor's Office of Business and Economic
Development

Denee Evans, City of Richmond

Jerry Fernandez, C&J Well Services, LLC

Sara Fitzsimon, California Hydrogen Business Council

Ashley Gerrity, The Greenlining Institute

APPEARANCES CONTINUED

ALSO PRESENT:

Omar Gonzales, Nikola Motor

Adam Harper, California Construction and Industrial
Materials Association

Greg Hurner, Sportsfishing Association of California,
Golden Gate Fishermen's Association

Manny Leon, California Alliance for Jobs

Rey Leon, The LEAP Institute

Michael Lewis, Construction Industry Air Quality Coalition

Bill Magavern, Coalition for Clean Air

Terry Manies, Orange EV

Ed Manning, Catalina Channel Express

Adrian Martinez, Earthjustice

Brian McDonald, Marathon

Alexia Mendez Martineau, Plug In America

Ivana Munguia, Thai Community Development Center

Annie Nam, Southern California Association of Governments

Natalie Nax, California Vanpool Authority

Amanda Parsons DeRosier, Global Clean Energy

Raef Porter, Sacramento Metropolitan Air District

Mary Alyssa Rancier, Associated General Contractors of
California

Hannon Rasool, California Energy Commission

Greg Reading, U.S. Hybrid

Mark Roest, Sustainable Energy, Inc., Silicon Valley Clean
Cities Coalition

APPEARANCES CONTINUED

ALSO PRESENT:

Parth Ruparel, ConMet eMobility

Nick Russo, Pedal Movement

Sasan Saadat, Earthjustice

Matt Schrap, Harbor Trucking Association

Andy Schwartz, Tesla

Bob Shepherd, Caterpillar

Chris Shimoda, California Trucking Association

Michael Sigala, Miocar

Keshia Thomas, Clean Shared Mobility Network

Orville Thomas, CALSTART

Tom Van Heeke, Rivian

Madison Vander Clay, Silicon Valley Leadership Group

Colin Wilhelm, Lightning eMotors

LaDonna Williams, All Positives Possible

Christine Wolfe, California Council for Environmental and
Economic Balance

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1 BOARD CLERK GARCIA: Professor Sperling?

2 BOARD MEMBER SPERLING: Here.

3 BOARD CLERK GARCIA: Ms. Takvorian?

4 BOARD MEMBER TAKVORIAN: Here.

5 BOARD CLERK GARCIA: Supervisor Vargas?

6 Vice Chair Berg?

7 VICE CHAIR BERG: Here.

8 BOARD CLERK GARCIA: Chair Randolph?

9 CHAIR RANDOLPH: Here.

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

12 CHAIR RANDOLPH: All right. Thank you. I will
13 now cover a few housekeeping items before we get started.
14 We are conducting today's meeting in person as well as
15 offering remote options for public participation, both by
16 phone and in Zoom. Anyone who wishes to testify in person
17 should fill out a request to speak card available in the
18 foyer outside the Board room. Please turn it into a Board
19 assistant prior to the commencement of the item. If you
20 are participating remotely, you will raise your hand in
21 Zoom or dial star nine if calling in by phone. The Clerk
22 will provide further details regarding how public
23 participation will work in just a moment.

24 For safety reasons, please note the emergency
25 exit to the rear of the room through the foyer. In the

1 event of a fire alarm, we are required to evacuate this
2 room immediately and go down the stairs to the lobby and
3 out of the building. When the all-clear signal is given,
4 we will return to the auditorium and resume the hearing.
5 A closed captioning feature is available for those of you
6 joining us in the Zoom environment. In order to turn on
7 subtitles, please look for button labeled "CC" at the
8 bottom of the Zoom window and shown in the example on the
9 screen now. I would like to take this opportunity to
10 remind everyone to speak clearly and from a quiet
11 location, whether you are joining us in Zoom or calling in
12 by phone.

13 Interpretation services will be provided today in
14 Spanish. If you are joining us using Zoom, there is a
15 button labeled "Interpretation" on the Zoom screen. Click
16 on that interpretation button and select Spanish to hear
17 the meeting in Spanish. If you are joining us here in
18 person and would like to listen to the meeting in Spanish,
19 please notify a Board assistant and they will provide you
20 with further instructions. I want to remind all of our
21 speakers to speak slowly and pause intermittently to allow
22 the interpreters the opportunity to accurately interpret
23 your comments.

24 (Interpreter translated in Spanish).

25 CHAIR RANDOLPH: I will now ask the Board Clerk

1 to provide more details regarding public participation.

2 BOARD CLERK GARCIA: Thank you, Chair Randolph.
3 Good morning, every one. My name is Lindsay Garcia and
4 I'm one of the Board clerks here at CARB.

5 I will be providing additional information on how
6 public participation will be organized for today's
7 meeting. We will first be calling on any in-person
8 commenters who have turned in a request to speak card and
9 then I will be calling on commenters who are joining us
10 remotely. If you are joining us remotely and wish to make
11 a verbal comment on one of today's Board items, you will
12 need to be using Zoom webinar or calling in by telephone.
13 If you are currently watching the webcast on CAL-SPAN but
14 you wish to comment remotely, please register for the Zoom
15 webinar or call in. Information for both of these can be
16 found on the public agenda for today's meeting.

17 To make a verbal comment, we will be using the
18 raise hand feature in Zoom. If you wish to speak on a
19 Board item, please virtually raise your hand as soon as
20 the item has begun to let us know you wish to speak. To
21 do this, if you are using a computer or tablet, there is a
22 raise hand button. And if you are calling in on the
23 telephone, dial start nine to raise your hand. Even if
24 you've previously indicated which item you wish to speak
25 on when you registered, you must still raise your hand at

1 the beginning of the item, so that you can be added to the
2 queue.

3 And if you will be giving your verbal comment
4 today in Spanish and require an interpreter's assistance,
5 please indicate so at the beginning of your testimony and
6 our translator will assist you. During you comment please
7 pause after each sentence to allow for the interpreter to
8 translate your comment into English.

9 When the comment period starts, the order of
10 commenters will be determined by who raises their hand
11 first. We will call each commenter by name and will
12 activate each commenter's audio when it is their turn to
13 speak. And for those calling in, we will identify you by
14 the last three digits of your phone number. We will not
15 show a list of remote commenters. However, we will be
16 announcing the next three or so commenters in the queue,
17 so you are ready to testify and know who is coming up
18 next. Please note that you will not appear by video
19 during your testimony. I would also like to remind
20 everyone to please state your name for the record before
21 you speak and this is especially important for those
22 calling in by phone to testify on an item.

23 We will have a time limit for each commenter and
24 we'll begin the comment period with a three-minute time
25 limit, although this could change at the Chair's

1 discretion. During public testimony, you will see a timer
2 on the screen. For those calling in by phone, we will run
3 the timer and let you know when you have 30 seconds left
4 and when your time is up. If require Spanish
5 interpretation for your comment, you time will be doubled.

6 If you wish to submit written comments today,
7 please visit CARB's send us your comments page or look at
8 the public agenda on our webpage for links to send these
9 documents electronically. Written comments will be
10 accepted on each item until the Chair closes the record
11 for that Board item.

12 And if you experience any technical difficulties,
13 please call (805)772-2715 so that an IT person can assist.
14 This number is also noted on the public agenda.

15 Thank you. I'd like to turn the microphone back
16 to Chair Randolph now.

17 CHAIR RANDOLPH: All right. Thank you. Before
18 we begin today's proceedings, I wanted to make a brief
19 announcement about the upcoming Haagen-Smit Clean Air
20 Award. Considered the Nobel Prize in air quality
21 achievement, CARB has given the awards annually since 2001
22 to individuals who have made transformative contributions
23 to improving air quality and/or addressing climate change.
24 The award is named after Dr. Arie Haagen-Smit whose
25 pioneering research established the link between smog and

1 the vehicle and industrial exhaust underlying it and led
2 to a complete transformation of air pollution control, not
3 only in California, but also around the world.

4 Dr. Haagen-Smit's leadership as CARB's first
5 Chair helped establish health protective air quality
6 policies and standards. The Clean Air Awards recognize
7 those who embody Dr. Haagen-Smit's legacy, with work that
8 has similar substantial and lasting impacts on the fight
9 against air pollution and climate change, whether by
10 advancing science and technology itself or through
11 leadership in environmental policy. In keeping with Dr.
12 Haagen-Smit's global legacy along with CARB's ongoing
13 international leadership, the awards honor both those with
14 international accomplishments and those who have acted
15 locally.

16 We are excited to be accepting nominations from
17 the public for the Haagen-Smit Clean Air Awards from now
18 through December 16th. Please visit our website at the
19 address shown on the slide to submit a nomination. Awards
20 will be presented in late spring of 2023. So please
21 nominate your clean air hero.

22 Finally, I want to acknowledge that today is
23 Senator Leyva's final Board meeting. Senator Leyva
24 represents the 20th State Senate District and was
25 appointed as ex officio Board member by the Senate in June

1 2021. Both during her time on the Board and over the
2 course of her year in the Senate, Senator Leyva has worked
3 to promote clean air and a healthy environment with a
4 particular focus on environmental justice and low-income
5 communities.

6 A particular highlight of Senator Leyva's time on
7 the board was the passage of the Heavy-Duty Inspection and
8 Maintenance Regulation last year, better known as the Smog
9 Check for Trucks, which CARB developed under the direction
10 of her bill SB 210. We are so grateful to Senator Leyva
11 for her service during her time on the Board. We are
12 grateful for her leadership, her deep care for communities
13 impacted by air pollution, and for her wonderful sense of
14 humor. And so we will miss her very much on the Board and
15 we wish her well in her future endeavors.

16 Senator Leyva, I don't know if you want to just
17 say a few words.

18 SENATOR LEYVA: I would love to. Thank you,
19 Madam Chair. This has just been an absolute honor and
20 pleasure for me to serve on the CARB board. All of the
21 members of the Board are just amazing and I just
22 appreciate that I've gotten to be with all of you, learn
23 from all of you, and I will miss so much not being a part
24 of this Board, because I, too, have learned so much. And
25 you just do great work.

1 And I thank you, because I think of the
2 communities that I have represented in Senate District 20.
3 And we don't have electeds there that really care about
4 the air quality, but you do. And you're doing great
5 things and making changes that will help all of my
6 constituents, because even though I'll be gone, they will
7 still be my people. So I just thank you and it's been a
8 real honor to serve with all of you.

9 Keep up the great work.

10 (Applause).

11 BOARD MEMBER BALMES: And Senator Leyva, I just
12 want to add a personal note of thanks for your time on the
13 Board. I've really appreciated your enthusiasm and
14 passion for the air quality and climate change policies
15 that we are trying to move forward. It's -- I wish all
16 legislators were as passionate about those issues as you
17 are.

18 Thank you.

19 SENATOR LEYVA: Thank you, Dr. Balmes.

20 CHAIR RANDOLPH: All right.

21 BOARD MEMBER TAKVORIAN: Can I just --

22 CHAIR RANDOLPH: Oh, sorry. Yes.

23 BOARD MEMBER TAKVORIAN: I'm sorry. I just -- I
24 can't let you go, Senator, without saying I remember our
25 first meeting, which was before you were an elected

1 official, and you were just as passionate and just as
2 articulate on a toxic tour that we did in the Inland
3 Valley. So thank you for bringing all of that passion,
4 and inspiration, and smarts to the California Legislature
5 and to CARB. Really appreciate having the opportunity to
6 work with you.

7 SENATOR LEYVA: Thank you, Board Member
8 Takvorian. I remember that too.

9 CHAIR RANDOLPH: All right. Okay.

10 The first item on today's agenda is Item number
11 22-15-1, public meeting to consider the Coachella Valley
12 75 ppb 8-hour ozone reasonable further progress State
13 Implement Plan. If you are here with us in the room and
14 wish to comment on this item, please fill out a request to
15 speak card as soon as possible and submit it to a Board
16 assistant. If you are joining us remotely and wish to
17 comment on this item, please click the raise hand button
18 or dial star nine now. We will call on both in-person and
19 remote commenters when we get to the public comment
20 portion of this item.

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

22 EXECUTIVE OFFICER CLIFF: Thank you, Chair
23 Randolph. And if you would allow me, I'd also like to
24 thank Senator Leyva before I start this. Senator Leyva,
25 really appreciate your service and excellent, excellent

1 work on SB 210. Really enjoyed working with you on
2 getting that through.

3 Thank you.

4 SENATOR LEYVA: Thank you. And appreciate all
5 your help. Couldn't have done it without you.

6 EXECUTIVE OFFICER CLIFF: In 2017, this Board
7 adopted the 2016 South Coast Air Quality Management Plan
8 that included the Coachella Valley 75 parts per billion
9 8-hour ozone severe SIP. Along with the attainment
10 demonstration, it included a reasonable further progress
11 demonstration and corresponding motor vehicle emission
12 budgets. U.S. EPA approved it in October 2020.

13 Motor vehicle budgets are established so
14 transportation activities, such as regional transportation
15 plans, do not interfere with attainment or maintenance of
16 air quality standards. The severe SIP relied on budgets
17 developed using CARB's On-Road Mobile Source Emissions
18 Factor model, EMFAC2014.

19 On August 15th, 2019, U.S. EPA approved the
20 updated version of our model EMFAC2017. Due to updated
21 emissions rates identified through CARB testing EMFAC2017
22 reflects higher emissions from heavy-duty trucks than
23 previously estimated. Thus, future year mobile emissions
24 are estimated to be higher than estimated by EMFAC2014 in
25 many areas of the state, including the Coachella Valley,

1 even though vehicle miles traveled have not increased.

2 Transportation agencies are now required to use
3 EMFAC2017 to estimate emissions, and given these higher
4 emission rates, it's no longer possible to demonstrate
5 conformity to the EPA approved Coachella Valley severe
6 SIP. This has resulted in a conformity lockdown in the
7 Southern California region and the delay of federal
8 transportation funding.

9 To update the 75 ppb ozone budgets with EMFAC2017
10 and to align the area's classification with its
11 classification under other ozone standards, the South
12 Coast Air Quality Management District has requested that
13 the Coachella Valley be classified as extreme for the 75
14 ppb ozone standard. The new classification requires that
15 we submit a new SIP meeting Clean Air Act requirements for
16 an extreme ozone area. While the District will develop
17 the attainment demonstration next year, to stop the
18 conformity lockdown and allow new transportation plans to
19 be developed in the Coachella Valley, the District adopted
20 a SIP revision updating the motor vehicle budgets with
21 EMFAC2017 and demonstrating the area as progressing toward
22 attainment of the standard.

23 CARB staff recommends the Board adopt the
24 Coachella Valley 75 Ppb 8-hour ozone reasonable further
25 progress State Implementation Plan as a revision to the

1 California SIP and direct staff to submit it to U.S. EPA.

2 This concludes my summary of the item. Thank
3 you.

4 CHAIR RANDOLPH: All right. Thank you.

5 We will now hear from the public who raised their
6 hand to speak on this item. Board Clerk, do you have
7 commenters to call?

8 BOARD CLERK GARCIA: Thank you. We don't have
9 any in-person commenters for this item. We have two
10 remote commenters. So we'll hear from Christopher Chavez
11 and Annie Nam.

12 So, Christopher, I have activated your
13 microphone. Please unmute and begin.

14 CHRISTOPHER CHAVEZ: Great. Thank you very much.
15 My name is Chris Chavez I'm the deputy policy director at
16 Coalition for Clean Air. First, before beginning,
17 definitely want to join in in thanking Senator Leyva and
18 thanking her for partnership with SB 210. I know our
19 organization greatly appreciates the very good working
20 relationship that we've had over the years.

21 Regarding the item specifically, certainly we
22 understand that transportation funding is at risk and that
23 it would have a significant impact on Southern California's
24 transportation planning. However, I think it's so
25 important that we recognize that the pollution in the

1 Coachella valley is higher than what we were originally
2 anticipating, which means that people living in that
3 region are breathing in more pollution and having their
4 health impacted all the more.

5 Further, I think it's important to recognize that
6 the -- that reclassifying the use of Coachella Valley in
7 being in extreme nonattainment will give the Southern
8 California Association of Governments, our local MPO, or
9 Metropolitan Planning Organization, a larger emissions
10 budget to work with. Additionally, it will give the South
11 Coast AQMD, Air Quality Management District, more time to
12 meet the standards. I believe the -- it moves up the
13 attainment deadline to 2031, which, you know, originally
14 was around 2037 -- or 2027, 2028.

15 So I think all those things are -- need to be
16 up -- lifted up, need to be recognized that while this is
17 a really, in some ways, a technical move, it also does
18 have implications for the State's ability to meet
19 attainment in the near future, as well as implications for
20 the folks living in the Eastern Coachella Valley region.

21 As we know Southern California is home to the
22 smoggiest air in the country and some of the most polluted
23 in terms of particulate matter. So it really represents
24 that attainment is even further away for California than
25 what we originally anticipated.

1 So thank you for your time.

2 BOARD CLERK GARCIA: Thank you.

3 Next, we'll hear from Annie Nam. Annie, I've
4 activated your microphone. Please unmute and begin.

5 ANNIE NAM: Hi. Good morning. My name is Annie
6 Nam, Deputy Director of Planning for the Transportation at
7 the Southern California Association of Governments.

8 On behalf of SCAG, I'd like to offer our strong
9 support for the South Coast Air Quality Management
10 District Coachella Valley RFP SIP, including the motor
11 vehicle emission budgets as presented by your staff. I
12 also respectfully request your approval of your staff
13 recommendations.

14 SCAG is the Metropolitan Planning Organization
15 for six county Southern California region, which includes
16 the entire South Coast AQMD jurisdiction. SCAG develops
17 Regional Transportation Plan and Sustainable Communities
18 Strategy as a long-range visioning plan that balances
19 future mobility and housing needs with economic and
20 environmental goals for the SCAG region. We also prepare
21 that short-term Federal Transportation Improvement Program
22 that essentially implements RTP SCS. Both the RTP SCS and
23 the FTIP are required to demonstrate transportation
24 conformity to be consistent with the objectives of AQMPs
25 and SIPs, due to the significant changes in ARB's emission

1 model. The entire SCAG region is currently under a
2 transportation conformity lockdown. It is important to
3 note that the Coachella ozone budget shortfalls are a
4 result of change in ARB's EMFAC models and not due to
5 relaxation in the regulations, policies, programs, or
6 projects of ARB, South Coast AQMD, and/or SCAG.

7 To the contrary, we have been doing more as
8 evidenced in our respective plans and programs. The
9 conformity lockdown is impacting over \$26 billion worth of
10 transportation projects, including transit projects.
11 Because SCAG cannot add new transportation projects or
12 amend current transportation projects in our FTIP and RTP
13 SCS, per the constraints of the conformity lockdown.
14 Although the economy remains relatively strong in the SCAG
15 region, the continuation of the conformity lockdown could
16 seriously impact the regional economy and jobs, because
17 these impacted transportation projects could not move
18 forward with implementation.

19 The management, legal, and planning staff of
20 AQMD, ARB, EPA, and SCAG have been working very closely
21 together over the last year to address the conformity
22 lockdown. And the RFP SIP presented by your staff is a
23 critical solution to identified -- identified by the four
24 agencies that will most expeditiously resolve the
25 conformity lockdown.

1 In addition to the South Coast -- in addition,
2 the South Coast AQMD governing board has adopted the RFP
3 SIP and the motor vehicle emission budgets. Therefore, we
4 request an appreciate your consideration and approval of
5 the recommendations from your staff.

6 Thank you.

7 BOARD CLERK GARCIA: Thank you.

8 And that concludes the commenters for this item.

9 CHAIR RANDOLPH: All right. Thank you.

10 I will now close the record on this agenda item.

11 I have a couple Board members with their hands
12 up. Board Member Kracov.

13 BOARD MEMBER KRACOV: Yes. Thank you, Chair.

14 I'm participating remotely today and off camera just
15 recovering from some elective surgery, but I'm on the mend
16 and will see you all in December.

17 First, I want to thank Senator Leyva for her
18 service. One of the commenters mentioned it, but every
19 time we see those significant reductions from the
20 Heavy-Duty Smog Check Program and SB 210, that was Senator
21 Leyva's work. So what a terrific legacy. I think it's
22 probably the most significant smog reduction measure that
23 many of us have had the chance to vote on as members of
24 this Board, and that's thanks to Senator Leyva's work. So
25 what a terrific legacy. Big shoes to fill and you will be

1 missed, Senator.

2 SENATOR LEYVA: Thanks. Thank you, Gideon.

3 BOARD MEMBER KRACOV: As for this -- you bet. As
4 for this item, I'll be supporting it. As the commenters,
5 Mr. Chavez, Ms. Nam noted, this is mostly a technical
6 change to the motor vehicle budgets having to do with
7 ozone. We definitely want to avoid a conformity lockdown
8 in the South Coast region. Supervisor Manuel Perez from
9 Riverside, who sits on the AQMD Board supported this
10 measure. It got unanimous support really without any
11 stakeholder opposition at the South Coast. And for that
12 reason, I'll be supporting the staff recommendation today.

13 CHAIR RANDOLPH: Thank you.

14 Board Member Riordan.

15 BOARD MEMBER RIORDAN: Thank you, Madam Chair. I
16 was going to second Mr. Kracov's hopeful motion, and I
17 would do that, because I think this is an opportunity
18 working together that we can solve a whole lot of
19 problems, so that was my reason for my hand raising.

20 However, I do want to say to Senator Leyva, thank
21 you so much for your service. And I am the lucky one,
22 because you're going to still be here in the Inland Empire
23 and we are so happy with your new job and look forward to
24 working with you.

25 SENATOR LEYVA: Thank you, Barbara.

1 CHAIR RANDOLPH: All right. Thank you.

2 Okay. Board Member Kracov, do you want to make a
3 motion?

4 BOARD MEMBER KRACOV: Sure I'll make the motion
5 to approve Item 22-15-1 to consider the Coachella Valley
6 75 part per billion 8-hour ozone reasonable further
7 progress State Implementation Plan.

8 CHAIR RANDOLPH: All right. And Board Member
9 Riordan, do you want to second that?

10 BOARD MEMBER RIORDAN: I do want to second that.
11 Thank you.

12 CHAIR RANDOLPH: All right. Thank you. Clerk,
13 can you please call the roll.

14 BOARD CLERK GARCIA: Yes.

15 Dr. Balmes?

16 BOARD MEMBER BALMES: Yes.

17 BOARD CLERK GARCIA: Mr. De La Torre?

18 BOARD MEMBER DE LA TORRE: Aye.

19 BOARD CLERK GARCIA: Yes. Okay. Thank you.

20 Mr. Eisenhut?

21 BOARD MEMBER EISENHUT: Aye.

22 BOARD CLERK GARCIA: Sensor Florez?

23 BOARD MEMBER FLOREZ: Florez, aye.

24 BOARD CLERK GARCIA: Ms. Hurt?

25 BOARD MEMBER HURT: Aye.

1 BOARD CLERK GARCIA: Mr. Kracov?

2 BOARD MEMBER KRACOV: Yes.

3 BOARD CLERK GARCIA: Dr. Pacheco-Werner?

4 BOARD MEMBER PACHECO-WERNER: Yes.

5 BOARD CLERK GARCIA: Mrs. Riordan?

6 BOARD MEMBER RIORDAN: Aye.

7 BOARD CLERK GARCIA: Supervisor Serna?

8 BOARD MEMBER SERNA: Aye.

9 BOARD CLERK GARCIA: Professor Sperling?

10 BOARD MEMBER SPERLING: Aye.

11 BOARD CLERK GARCIA: Ms. Takvorian?

12 BOARD MEMBER TAKVORIAN: Aye.

13 BOARD CLERK GARCIA: Supervisor Vargas?

14 Vice Chair Berg?

15 VICE CHAIR BERG: Aye.

16 BOARD CLERK GARCIA: Chair Randolph?

17 CHAIR RANDOLPH: Yes.

18 BOARD CLERK GARCIA: Madam Chair, the motion
19 passes.

20 CHAIR RANDOLPH: All right. Thank you. The next
21 item on the agenda is Item number 22-15-2, proposed
22 contract with University of California, Davis, titled,
23 "Research Study: Impacts and Implications of California
24 Housing and Transportation Costs".

25 If are you here with us in the room and wish to

1 comment on this item please fill out a request to speak
2 card as soon as possible and submit it to a Board
3 assistant. If you are joining us remotely and wish to
4 comment on this item, please click the raise hand button
5 or dial star nine now. We will call on both in-person and
6 remote commenters when we get to the public comment
7 portion of this item.

8 This item is listed on the agenda to comply with
9 Board approval requirements in Government Code section
10 1091, because two of our Board members are affiliated with
11 UC Davis. Therefore, Board members Berg and Sperling will
12 abstain from the discussion and vote.

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

14 EXECUTIVE OFFICER CLIFF: Thank you, Chair
15 Randolph. This item is a proposed contract that will help
16 CARB develop estimates of housing and transportation cost
17 burdens across California, as well as policies to reduce
18 the combined cost burdens in the most impacted
19 populations. Existing data do not provide an adequate
20 level of detail on California communities or fully
21 characterize the housing and transportation cost
22 trade-offs that the most vulnerable households might make
23 when they decide where to live.

24 This proposed study will develop a housing and
25 transportation cost estimate methodology analyzing

1 implications of State policy on costs for priority
2 populations and contextualize the factors that impact
3 location affordability with lived experiences. Approval
4 by the Board will authorize staff to put this contract
5 into place.

6 This concludes my summary of the item. Thank you

7 CHAIR RANDOLPH: All right. Thank you. We will
8 now hear from the public who raised their hand to speak on
9 this item. Will the Board clerk please call the
10 commenters.

11 BOARD CLERK GARCIA: We have no commenters for
12 this item.

13 CHAIR RANDOLPH: All right. I will now close the
14 record on this item.

15 Do I have a motion and a second to approve the
16 item and have staff proceed with executing the contract?

17 BOARD MEMBER BALMES: I move approve to approve
18 the item.

19 BOARD MEMBER TAKVORIAN: I second it.

20 BOARD MEMBER HURT: Second.

21 CHAIR RANDOLPH: All right. Clerk, would you
22 please call the roll.

23 CHAIR RANDOLPH: Yes.

24 Dr. Balmes?

25 BOARD MEMBER BALMES: Yes.

1 BOARD CLERK GARCIA: Mr. De La Torre?

2 BOARD MEMBER DE LA TORRE: Yes.

3 BOARD CLERK GARCIA: Mr. Eisenhut?

4 BOARD MEMBER EISENHUT: Aye.

5 BOARD CLERK GARCIA: Senator Florez?

6 BOARD MEMBER 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: Ms. Takvorian?

18 BOARD MEMBER TAKVORIAN: Aye.

19 BOARD CLERK GARCIA: Supervisor Vargas?

20 Vice Chair -- I'm sorry. Chair Randolph?

21 CHAIR RANDOLPH: Yes.

22 BOARD CLERK GARCIA: Madam Chair, the motion
23 passes.

24 CHAIR RANDOLPH: All right. Thank you.

25 The next item on the agenda is Item number

1 22-15-3, proposed contract with the University of
2 California, Davis, titled, "Research Study: State of
3 Zero-Emission Vehicle Secondary Market and Accessibility
4 Impacts in California's Underserved Communities".

5 If you are here with us in the room and wish to
6 comment on this item, please fill out a request-to-speak
7 card as soon as possible and submit it to the Board
8 clerks. And if you are joining us remotely, please click
9 the raise hand button or dial star nine now.

10 This item is listed on the agenda to comply with
11 Board approval requirements in Government Code section
12 1090. Because two of our Board members are affiliated
13 with UC Davis, therefore Board Members Berg and Sperling
14 will abstain from the discussion and vote.

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

16 EXECUTIVE OFFICER CLIFF: Thank you, Chair
17 Randolph. This item is proposed contract that will help
18 inform CARB's light-duty ZEV incentives and regulations
19 whose goal is to expand equitable access to ZEVs to all
20 Californians. Used vehicles make up two-thirds of
21 vehicles purchased making the secondary ZEV market an
22 important component of the State's ZEV deployment.

23 This project will survey used ZEV owners to
24 advance our understanding of who buys used ZEVs, their
25 motivations, and experiences. Understanding car buyers

1 experience, accessing and utilizing used ZEVs is
2 particularly important for lower income households for
3 whom quality used ZEVs is especially significant.
4 Additionally, this project will also analyze the movement
5 of ZEVs across State lines and the impact of CARB's
6 light-duty ZEV incentive programs on the used ZEV market.
7 Approval by the Board will authorize staff to put this
8 contract into place. This concludes my summary of the
9 item. Thank you.

10 CHAIR RANDOLPH: Thank you.

11 Board clerk, do we have any members of the public
12 commenting on this item.

13 BOARD CLERK GARCIA: No commenters for this item.

14 CHAIR RANDOLPH: All right. I will now close the
15 record on this agenda item.

16 Do I have a motion and a second to approve the
17 item and have staff proceed with executing the contract?

18 BOARD MEMBER TAKVORIAN: I'd like to move
19 approval of the item and express a lot of excitement about
20 it. It's really overdue and glad that we're doing this.
21 So thank you to the researchers. Good luck.

22 BOARD MEMBER BALMES: I'll second.

23 CHAIR RANDOLPH: Okay. We have a motion and a
24 second.

25 Clerk, would you please call the roll.

1 BOARD CLERK ESTABROOK: Dr. Balmes?

2 BOARD MEMBER BALMES: Yes.

3 BOARD CLERK GARCIA: Mr. De La Torre?

4 BOARD MEMBER DE LA TORRE: Yes.

5 BOARD CLERK GARCIA: Thank you.

6 Mr. Eisenhut?

7 BOARD MEMBER EISENHUT: Yes.

8 BOARD CLERK GARCIA: Senator Florez?

9 BOARD MEMBER FLOREZ: Florez, aye.

10 BOARD CLERK GARCIA: Ms. Hurt?

11 BOARD MEMBER HURT: Aye.

12 BOARD CLERK GARCIA: Mr. Kracov?

13 BOARD MEMBER KRACOV: Yes.

14 BOARD CLERK GARCIA: Dr. Pacheco-Werner?

15 BOARD MEMBER PACHECO-WERNER: Yes.

16 BOARD CLERK GARCIA: Mrs. Riordan?

17 BOARD MEMBER RIORDAN: Aye.

18 BOARD CLERK GARCIA: Supervisor Serna?

19 BOARD MEMBER SERNA: Aye.

20 BOARD CLERK GARCIA: Ms. Takvorian?

21 BOARD MEMBER TAKVORIAN: Aye.

22 BOARD CLERK GARCIA: Supervisor Vargas?

23 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 the agenda is Item number
4 22-15-4, proposed amendments to the In-Use Off-Road
5 Diesel-Fueled Fleets Regulation.

6 If you are here with us in the room and wish to
7 comment on this item, please fill out a request to speak
8 card as soon as possible and submit it to the Board
9 assistant. If you are joining us remotely and wish to
10 comment on this item, please click the raise hand button
11 or dial star nine now. We will call on both in-person and
12 remote commenters when we get to the public comment
13 portion of this item.

14 The Off-Road Regulation was adopted in 2007 with
15 the goal of reducing diesel particulate matter, NOx, and
16 other criteria air pollutants from in-use off-road
17 diesel-fueled vehicles operating in California. This
18 regulation has been effective in reducing these
19 pollutants, but now, 15 years later, it is critical that
20 the off-road diesel sector take the next step to upgrade
21 to readily available cleaner technology, to further reduce
22 harmful emissions, and improve public health in
23 California.

24 These proposed amendments also constitute one of
25 the control measures identified in the 2022 State SIP

1 Strategy, which the Board adopted just two months ago. In
2 the State Implementation Plan, CARB committed to propose
3 these amendments with the goal of achieving four tons per
4 day of NOx reductions by 2037 to meet the Federal National
5 Ambient Air Quality Standards set by U.S. EPA.

6 The proposed amendments that we hear today are
7 critical both to meet our statewide SIP commitments and to
8 reduce exposure to air pollutants and improve public
9 health outcomes in communities throughout California,
10 particularly in communities that experience
11 disproportionate cumulative pollution burdens from
12 exposure to air contaminants.

13 Dr. Cliff, would you please introduce this item?

14 EXECUTIVE OFFICER CLIFF: Thank you, Chair
15 Randolph. As you noted, these proposed amendments are an
16 important step in reducing diesel particulate matter and
17 NOx emissions throughout California to meet federal air
18 quality mandates. Although the current regulation has
19 achieved significant reductions by implementing a
20 declining fleet average emission target that required
21 fleets to gradually turnover their older vehicles over
22 about a ten year period. The current rules would still
23 allow fleets to use vehicles with older tiered engines
24 indefinitely, even though there are much better options
25 now available.

1 This means there is the potential for fleets to
2 continue to operate old and highly polluting off-road
3 diesel vehicles, such as vehicles with Tier 0 engines,
4 which produce approximately 80 times higher NOx emissions
5 compared to vehicles with Tier 4 final engines, resulting
6 in lost emission reductions that threaten public health in
7 the state and are needed to meet our State Implementation
8 Plan targets.

9 To address this issue, staff have developed
10 proposed amendments to the Off-Road Regulation that will
11 target emissions from these older highly polluting engines
12 in California. The proposed amendments also include a
13 renewable diesel fuel requirement that will achieve
14 additional near-term NOx and PM reductions statewide;
15 contracting requirements that will require hiring entities
16 to verify fleet-level compliance with the intent of
17 ensuring emission reductions are achieved reducing unfair
18 competition between fleets and supporting CARB's
19 enforcement efforts; and two voluntary zero-emission
20 components that will provide flexibility to fleets that
21 adopt zero-emission vehicles with the intent of supporting
22 the Governor's Executive Order N-79-20 and encouraging the
23 deployment of zero-emission technology in the off-road
24 sector.

25 Today, we will hear about the proposal for the

1 amendments to the Off-Road Diesel Regulation, as well as
2 the estimated emission reduction benefits and costs of
3 these proposed amendments. I will now ask Nathan Dean of
4 the Mobile Source Control Division to begin the staff
5 presentation.

6 Nathan

7 (Thereupon a slide presentation).

8 MSCD AIR POLLUTION SPECIALIST DEAN: Thank you,
9 Dr. Cliff. And good morning, Chair Randolph and members
10 of the Board. I'm pleased to be presenting staff's
11 proposal for amendments to the In-Use Off-Road
12 Diesel-Fueled Fleets Regulation for your consideration
13 today.

14 --o0o--

15 MSCD AIR POLLUTION SPECIALIST DEAN: In this
16 presentation, I will provide background information on the
17 existing Off-Road Diesel Regulation and the air quality
18 goals driving these proposed amendments, an overview of
19 staff's proposal, along with a discussion of the potential
20 benefits and costs associated with the proposal, and
21 lastly staff's recommendation.

22 --o0o--

23 MSCD AIR POLLUTION SPECIALIST DEAN: Across the
24 entire state of California, approximately 70 percent of
25 Californians are breathing unhealthy air. This map of

1 California, which displays the regions in California that
2 are designated as nonattainment for the most recent
3 Federal National Ambient Air Quality Standards for ozone
4 and PM2.5 highlights just how many communities in
5 California still face challenges with air quality issues.
6 In addition to these regional concerns around ozone an
7 PM2.5, diesel particulate matter poses a significant
8 health risk at the local level to all Californians that
9 live and work near vehicles and equipment that emit diesel
10 exhaust. And it is critically important that action is
11 taken to reduce these adverse health impacts for all
12 communities throughout California, especially
13 disadvantaged and low-income communities.

14 --o0o--

15 MSCD AIR POLLUTION SPECIALIST DEAN: The 2022
16 State Strategy for the State Implementation Plan, which
17 was just adopted by the Board a few months ago and is
18 intended to demonstrate how California will reach federal
19 attainment for ozone and PM2.5 outlines today's proposal
20 as a key strategy needed to achieve those federal air
21 quality standards. The 2022 SIP commits to achieving
22 statewide emission reductions of four tons per day of
23 nitrogen oxides as well as 0.3 tons per day of reactive
24 organic gases by 2037, specifically through the proposal
25 that staff is bringing before the Board today. These

1 reductions represent a very real benefit to the
2 communities and vehicle operators in California that are
3 facing the impacts of diesel exhaust.

4 --o0o--

5 MSCD AIR POLLUTION SPECIALIST DEAN: Next, I'd
6 like to briefly discuss what vehicles we are talking about
7 today and provide an overview of the current Off-Road
8 Diesel Regulation. The Off-Road Diesel Regulation, which
9 was originally approved in 2007, covers off-road mobile
10 self-propelled diesel-fueled vehicles that are 25
11 horsepower or greater. This generally means equipment
12 used in construction, mining, and other industrial
13 operations and this also includes equipment that is owned
14 by government fleets at all levels. The current
15 regulation requires fleets that own this type of equipment
16 to gradually clean up their fleet via retirement, engine
17 replacements, or retrofits by implementing declining
18 emission-based fleet average targets that each fleet must
19 achieve by certain years. The current regulation also
20 prohibits the addition Tier 0 to Tier 2 vehicles, requires
21 labeling of vehicles and annual reporting by fleets, and
22 includes idling requirements. For over a decade, CARB has
23 had a dedicated team of full-time implementation staff,
24 including a call-in line focused on the implementation of
25 the current regulation and this team will continue to

1 implement the proposed amendments.

2 --o0o--

3 MSCD AIR POLLUTION SPECIALIST DEAN: As seen in
4 this the chart comparing the emission factors by the
5 various tiers of diesel engines, it is clear that the
6 older vehicles produce far more harmful air emissions than
7 the technology that is readily available today. A Tier 4
8 final engine, which has been produced since 2015 and is
9 available in all horsepower ranges emits approximately 80
10 times less nitrogen oxides than a Tier 0 engine. This is
11 why staff's proposal today is recommending a ban on the
12 operations of these older tiers of equipment.

13 Given the significant reductions that come from
14 the cleaner equipment, it is critical that our air quality
15 goals and for our impacted communities to move to the
16 higher tiers as soon as possible.

17 --o0o--

18 MSCD AIR POLLUTION SPECIALIST DEAN: Before I
19 provide an overview of the proposed amendments, I want to
20 highlight that the -- where these fit into CARB's overall
21 approach to the off-road sector over the coming years.
22 Note that CARB is taking actions in a variety of off-road
23 categories in addition to the construction and mining
24 equipment under discussion today, both on the cleaner
25 combustion side as well as the zero-emission side. It's

1 important to keep in mind that the proposed amendments are
2 one piece of a larger picture with the overarching goals
3 of achieving near-term criteria pollutant emission
4 reductions, as well as transitioning to California's
5 long-term zero-emission future, and each piece of this
6 timeline has a distinct role in meeting these two critical
7 goals.

8 --o0o--

9 MSCD AIR POLLUTION SPECIALIST DEAN: Now, I will
10 discuss staff's proposal in more detail and begin by
11 highlighting the overarching goals for the proposed
12 amendments to the Off-Road Diesel Regulation.

13 First and foremost, the main goal of the proposed
14 amendments is to achieve additional emission reductions,
15 as I discussed in the last few slides. Supporting the SIP
16 emission reduction goals to reduce ozone and PM pollution
17 and reducing diesel particulate matter throughout
18 California were the most important drivers when developing
19 a proposal.

20 Another goal of the proposed amendments is to
21 enhance enforceability of the regulation. CARB has over a
22 decade of experience enforcing and implementing the
23 regulation, and strong enforcement is critical in order to
24 maintain a level playing field for compliant fleets
25 conducting business in California, and to ensure that the

1 projected emission reductions are being achieved in-use.
2 Several adjustment were made to the regulation with this
3 goal in mind, particularly centered around the entities
4 that are responsible for hiring fleets subject to the
5 regulation.

6 And the last goal staff wanted to highlight was
7 the critical push for zero-emission technology. There's
8 no denying that the long-term future for California is
9 zero-emission. This is highlighted in the Governor's
10 Executive Order N-79-20, which set an ambitious goal of
11 transitioning off-road equipment to zero-emission
12 operations by 2035 where feasible.

13 Although the focus of staff's proposal is to meet
14 our SIP commitments and achieve near-term emission
15 reductions, we also wanted to be cognizant of our
16 long-term zero-emission goals. Currently, commercialized
17 zero-emission technology that could do the work of the
18 vehicles covered under this regulation are generally
19 limited to the lower horsepower ranges, and specific
20 equipment types such as lifts, small wheel loaders, and
21 skid steer loaders. However, staff wanted to ensure that
22 there were pathways within the framework of the regulation
23 to encourage zero-emission adoption

24 --o0o--

25 MSCD AIR POLLUTION SPECIALIST DEAN: The proposal

1 you'll hear about today was developed through an 18-month
2 public process, which included three workshops, three work
3 groups, and over 30 individual stakeholder meetings. The
4 major elements of the proposal include phasing out the
5 operation of the oldest and dirtiest off-road diesel
6 vehicles, expanding the ban on adding vehicles in the
7 regulation, requiring the use of renewable diesel,
8 introducing new contracting requirements, and providing
9 flexibility options to encourage the adoption of
10 zero-emission technology.

11 --o0o--

12 MSCD AIR POLLUTION SPECIALIST DEAN: The first
13 major element of the proposal involves phasing out the
14 oldest off-road diesel engines. This phaseout, which
15 targets Tier 0, 1, and 2 engines has different
16 implementation schedules based on the size of the fleet,
17 as seen in this table. Large fleets have the first
18 phaseout, which bans the operation of all Tier 0 vehicles
19 starting on January 1, 2024. And then two years later,
20 the Tier 1 phaseout is in effect for large fleets, and two
21 years after that is Tier 2.

22 This structure is the same for medium and small
23 fleets, but start in later years. These requirements are
24 designed to be complementary to the current regulation's
25 fleet average targets. There are a few special notes I

1 wanted to mention. First you'll notice that on-road model
2 year engines are also included in these requirements, and
3 that is because there are a very limited number of
4 vehicles with on-road engines that are subject to this
5 regulation.

6 Second, ultra small fleets, which are less than
7 500 horsepower were provided additional years to comply
8 with the Tier 2 phaseout, specifically to provide smaller
9 businesses more time to plan for the replacement of their
10 Tier 2 vehicles as these entities could face additional
11 financial challenges to comply.

12 And lastly, there are certain vehicles in the
13 regulation that will remain exempted from these tier
14 phaseouts, most notably, are low-use vehicles, vehicles
15 used in emergency operations, and dedicated snow removal
16 vehicles.

17 --o0o--

18 MSCD AIR POLLUTION SPECIALIST DEAN: The next
19 piece of the proposal goes hand in hand with the tier
20 phaseout requirements. To ensure the emission reduction
21 goals are achieved, staff's proposal expands the existing
22 ban on vehicle adding, so that fleets will be required to
23 replace their older tiered equipment with at a minimum,
24 the cleanest combustion technology that is available
25 today, which is Tier 4 final.

1 proposing that all off-road diesel fleets in California
2 will be required to use 99 percent or 100 percent
3 renewable diesel starting on January 1, 2024. Renewable
4 diesel is a drop-in fuel, meaning it meets the same
5 requirements as conventional CARB ultra low sulfur diesel,
6 can be used interchangeably or in combination with CARB
7 diesel, and requires no infrastructure changes or engine
8 modifications. Using renewable diesel in Tier 4 interim
9 and older vehicles reduces NOx emissions by approximately
10 10 percent and PM emissions by approximately 30 percent
11 compared to CARB diesel.

12 Based on staff's analysis of historical price
13 information, the program -- with programs such as LCFS
14 factored in, the cost of renewable diesel to fleets is the
15 same as that of CARB diesel. The 2022 off-road inventory
16 estimates that vehicles subject to the Off-Road Regulation
17 use about 270 million gallons of diesel annually, while
18 the LCFS dashboard reported over 900 million gallons of
19 renewable diesel in 2021 with several large renewable
20 diesel production facilities coming online between now and
21 2024, which will increase this capacity.

22 All this is to say that renewable diesel is
23 available at cost parity for fleets, does not require any
24 equipment alterations, and will achieve significant early
25 emission reductions that are especially needed for

1 communities. To ensure compliance with this new
2 requirement, there will also be an attestation required
3 during the already established annual reporting by fleets,
4 as well as a record keeping requirement.

5 --o0o--

6 MSCD AIR POLLUTION SPECIALIST DEAN: Staff's
7 proposal includes several limited exemptions to the
8 renewable diesel requirement. First, captive attainment
9 fleets, which are defined in the current regulation as
10 specific regions that are in attainment with the federal
11 ambient air quality standards are not required to use
12 renewable diesel.

13 Second, fleets that are comprised entirely of
14 Tier 4 final or zero-emission vehicles are exempt. As
15 mentioned previously, the NOx and PM emission reductions
16 are seen in Tier 4 interim and older vehicles because
17 engines with SCR and DPF controls, such as Tier 4 final,
18 show minimal emission reductions when compared to CARB
19 diesel use. For this reason, fleets that only have Tier 4
20 final vehicles or zero-emission vehicles would potentially
21 not see much of an emission benefit when using renewable
22 diesel, so staff has proposed to exempt these fleets.

23 Third, although the capacity of renewable diesel
24 in California is able to meet the off-road diesel sector's
25 fuel demands, staff understands that there could be very

1 targeted situations where a fleet might be unable to
2 procure renewable diesel. For this reason, an exemption
3 is proposed where if a fleet is unable to obtain renewable
4 diesel, then the fleet will not face noncompliance for
5 failing to use it.

6 In order to prevent abuse of this exemption, the
7 fleet must keep records that describe their normal
8 refueling method, records that describe why they were
9 unable to obtain renewable diesel via their normal
10 refueling method, and documentation supporting their
11 inability to obtain renewable diesel.

12 Lastly, over the last few weeks, we have heard
13 from stakeholders that renewable diesel could face
14 performance issues in very low temperature climates.
15 Staff agrees that we would not want fleets to face these
16 potential performance issues and are considering 15-day
17 changes that allow blending of low temperature fossil fuel
18 with renewable diesel under certain conditions to avoid
19 these issues.

20 --o0o--

21 MSCD AIR POLLUTION SPECIALIST DEAN: As mentioned
22 previously, one of the goals of these amendments is to
23 enhance enforceability of the regulation. And currently,
24 some non-compliant fleets are being hired to do work on
25 projects throughout the state. To help address this

1 issues, staff is proposing to require that all contracting
2 entities must verify that a fleet has a valid, CARB-issued
3 Certificate of Reported Compliance prior to entering into
4 a contract with that fleet. By ensuring that hiring
5 entities are only contracting with fleets that are
6 compliant with the Off-Road Regulation, CARB can achieve
7 its implementation goals more effectively than through
8 CARB enforcement efforts alone.

9 Staff's proposal includes several requirements
10 specifically for prime contractors due to their direct
11 control over the job sites under their purview. Prime
12 contractors must report any observed noncompliance on
13 their job site to CARB, which is similar to requirements
14 in the recent TRU and heavy-duty I&M regulations.

15 Additionally, if CARB visits a job site and asks
16 the prime contractor for ownership information of
17 vehicles, then the prime contractor must disclose that
18 information, and the prime contractor must post a sign at
19 each job site, which provides high level information on
20 the Off-Road Diesel Regulation and instructions on how to
21 report observed noncompliance.

22 --o0o--

23 MSCD AIR POLLUTION SPECIALIST DEAN: Staff's
24 proposal up to this point has been intended to implement
25 very quick and targeted requirements to achieve near-term

1 NOx and PM emission reductions, which are critically
2 needed to reach California's near-term air quality goals.
3 But switching gears slightly, staff is also proposing
4 additional compliance options with the intent of
5 encouraging the adoption of zero-emission technology to
6 support California's long-term goals as well. To do this,
7 staff has developed a two-pronged approach to encourage
8 the adoption of zero-emission technology.

9 The first prong being a vehicle-to-vehicle
10 flexibility. The intent of this provision is to allow a
11 fleet that adopts a zero-emission vehicle to be able to
12 keep a similar sized Tier 1 or Tier 2 vehicle for an
13 additional two years beyond the tier phaseout dates. This
14 allows fleets the opportunity to have additional time to
15 make any operational adjustments necessary to fully
16 incorporate zero-emission into their fleet, while having
17 the ability to rely on the older vehicles, if needed.
18 This requirement includes several reporting requirements
19 to ensure CARB can properly track which vehicles are
20 receiving the additional two-year flexibility and to
21 ensure the provision is being used properly.

22 --o0o--

23 MSCD AIR POLLUTION SPECIALIST DEAN: The second
24 zero-emission prong is intended to allow for a much bolder
25 and more transformative zero-emission compliance pathway.

1 Replacing Tier 0 to 2 vehicles with the cleanest available
2 combustion technology is necessary to meet our near-term
3 air quality goals. But if a fleet would rather hold off
4 on investing their capital into Tier 4 final equipment and
5 would rather invest in zero-emission technology, that
6 should be not only allowed but encouraged within the
7 framework of the regulation. This is where the
8 Zero-Emission Transition Application, or ZETA, process
9 allows for an alternate compliance pathway for fleets
10 wishing to go all in on zero-emission technology and help
11 lead the way to a zero-emission off-road sector.

12 First, a fleet wishing to make this
13 transformational commitment must submit a ZETA to CARB and
14 if it is approved, then the fleet no longer must comply
15 with the fleet average targets or the tier phaseout
16 requirements. In order to utilize this alternate
17 compliance pathway, a fleet must commit to turnover at
18 least 15 percent of their fleet based on total horsepower
19 to zero-emission operations by 2030, and at least 50
20 percent of their fleet to zero-emission operations by
21 2035.

22 In addition, the ZETA must include several
23 important elements before CARB will approve it. Every
24 year, after a ZETA is approved, a fleet will be required
25 to submit annual updates to CARB detailing progress

1 they're making on there plan. Based on this annual
2 update, there are several potential outcomes that are
3 shown on the slide.

4 If CARB revokes approval during the annual
5 reviews or if CARB does not approve a ZETA in the second
6 step, then the fleet must comply with the fleet average
7 targets and Tier phaseout requirements. Including this
8 alternate compliance pathway, it will allow fleets the
9 option to invest in the long-term zero-emission future of
10 California, which is a critical first step to transition
11 to zero-emission operations.

12 --o0o--

13 MSCD AIR POLLUTION SPECIALIST DEAN: Staff's
14 proposal also includes a simplification of the low use
15 provision to only include a permanent low-use option, an
16 introduction of a three-year rolling average to the
17 permanent low-use option, which provides additional
18 flexibility for fleets, and a ban on the operation of Tier
19 0 low-use vehicles starting in January 1, 2036.

20 Staff's proposal requires fleets starting in
21 January 1, 2028 to only add vehicles which are California
22 certified or certified to a California equivalent standard
23 for all model year 2028 and newer engines. This provision
24 provides assurance that the cleanest engines continue to
25 be used in California, even if federal and California

1 proposal. As you can see, staff's proposal is achieving
2 substantial emission reductions, especially in the
3 early -- very early years, which is critical for
4 California' near-term air quality goals. One other note
5 I'd like to make is that the 2022 State SIP Strategy
6 committed to four tons per day of NOx reductions in 2037
7 statewide by this proposal. And as you can see, we are
8 projected to achieve 4.1 in 2037.

9 Although the reductions are impressive, we are
10 not overshooting this target by very much, which
11 highlights the need to maintain the proposal's level of
12 stringency.

13 --o0o--

14 MSCD AIR POLLUTION SPECIALIST DEAN: And on this
15 slide, we have a similar graph showing the difference in
16 PM emissions. Both graphs tell the same compelling story,
17 which is that staff' proposal will achieve significant
18 near-term emission reductions beyond what will be achieved
19 by the current regulation.

20 --o0o--

21 MSCD AIR POLLUTION SPECIALIST DEAN: These
22 near-term emission reductions have a real direct benefit
23 to the citizens of California in the form of reduced
24 adverse health impacts. Based on CARB's analysis, staff's
25 proposal will prevent and estimated 571 premature deaths

1 and prevent many hospitalizations and emergency room
2 visits caused by harmful air emissions. The estimated
3 valuation of these prevented adverse health impacts is
4 \$5.7 billion.

5 --o0o--

6 MSCD AIR POLLUTION SPECIALIST DEAN: These
7 emission reductions and health benefits do come at a
8 monetary cost for the fleets subject to this regulation.
9 Based on staff's analysis and the Standardized Regulatory
10 Impact Assessment, staff's proposal has an estimated net
11 cost of \$1.9 billion from 2023 through 2038. The bulk of
12 this cost comes from the tier phaseout requirement and
13 fleets replacing the old tiered vehicles with Tier 4
14 final. Based on the estimated emission reductions that
15 will be achieved, staff's proposal has a cost
16 effectiveness of about \$22,700 per weighted ton of
17 emissions. Although, there is a significant cost, the
18 health benefit valuation far exceeds the potential cost to
19 industry.

20 --o0o--

21 MSCD AIR POLLUTION SPECIALIST DEAN: Staff
22 recommends the Board approve Resolution 22-19. With this
23 action, the Board will achieve significant near-term
24 emission reductions critically needed to attain
25 California's federal ambient air quality standards and to

1 reduce the adverse health impacts faced by communities
2 throughout California.

3 After this meeting, staff will prepare the Final
4 Statement of Reasons, which will respond to public
5 comments received during the open public comment period
6 and during this hearing or circulate to the public 15-day
7 proposed changes as needed.

8 Staff anticipates the submitting the rulemaking
9 to California's Office of Administrative Law for its
10 review and approval in 2023. To the extent that this
11 rulemaking action requires an authorization, staff shall
12 submit a request for authorization to U.S. EPA. Staff
13 will also request that U.S. EPA approve these regulations
14 into California's State Implementation Plan.

15 This concludes my presentation.

16 CHAIR RANDOLPH: All right. Thank you. Okay.
17 We will now hear from the public who signed up to speak on
18 this item either by submitting a request to speak card
19 here in person or a raised hand in Zoom. And so I will
20 ask the Board clerks to being calling the commenters.

21 BOARD CLERK HARRINGTON: Thank you. We currently
22 have eight commenters in person. I'll start with Jerry
23 Fernandez

24 JERRY FERNANDEZ: ...services for abandonment of
25 oil wells in the San Joaquin Valley and all of the state

1 of California. We appreciate the opportunity to offer
2 brief comments today on the proposed amendment for the
3 DOORS regulation.

4 We have three primary concerns with the proposed
5 amendments. The first being that the timing of the Tier 3
6 and Tier 4 interim purchases bans, currently the deadline
7 for a Tier 3 engine in portable equipment is December 31st
8 of 2024. This regulation, if approved, will change that
9 to January 1st, 2024 disproportionately impacting the
10 companies that have expended time, energy, resources to
11 meet the previously established time frame.

12 In fact, it appears the industry will be
13 challenged even to meet the December 31st, 2024 time
14 frame. Therefore, we recommend extending the current
15 deadline to January 1st, of 2026. We currently in January
16 purchased 16 Tier 4 final engines. We have only been able
17 to receive four of those 16 engines into inventory. The
18 other are either on boats or waiting to come in from some
19 place. So it has extremely limited us ability to be able
20 to switch these engines out at the rapid pace that this is
21 happening.

22 We also disagree on the ban of Tier 4 fine --
23 interim engines, until the Tier 5 Regulations or the Tier
24 57 emissions can be qualified, and therefore, we have
25 sufficient supply of these engines in stock to be able to

1 support putting them in equipment. We saw this with the
2 portable equipment where we went to a thing and still have
3 Tier 4 engines that we can't get ahold of. So we have a
4 concern there.

5 We're also concerned with the proposed deadline
6 for R99 and R100. A lot of the contracts that are written
7 for diesel fuel require, you know, year or two-year
8 contracts with our vendors. We currently have a -- a
9 refinery in our own area that is struggling to be able to
10 convert over to RD99 and is now showing possible
11 bankruptcy from converting that over. So I don't think
12 the fuels will be available to us like we thought we might
13 have.

14 We have concerns that section 2249(d) with the
15 Tier 5, it seems to me the way it's written that it may
16 conflict with EPA and the Tier 5 engines. And it won't
17 allow us to add vehicles unless they're EPA certified, but
18 it may not be CARB certified at the time. So we would
19 request that you take a look at that and until that is
20 resolved, we recommend postponing the implementation of
21 this section.

22 I currently have 156 pieces of equipment in
23 DOORS, 345 equipment in truck and bus, 210 pieces of
24 equipment in portable, and then assortment of store
25 equipment. So we would request your permission to take a

1 look at this a little further.

2 Thank you.

3 BOARD CLERK HARRINGTON: Thank you.

4 Next, we have Todd Bloomstine.

5 TODD BLOOMSTINE: Thank you, Madam Chair and
6 Board members. My name is Todd Bloomstine and I am here
7 on behalf of the Southern California Contractors
8 Association. SCCA would like to associate our comments
9 with those submitted by the Construction Industry Air
10 Quality Coalition.

11 By way of background, SCCA is an all union trade
12 association of engineering contractors with about 300
13 members. They work on all projects from the ground down,
14 streets, highways, dams, and other similar infrastructure.
15 Their work requires the utilization of heavy diesel
16 off-road equipment.

17 SCCA contractors are all signatory to several
18 unions, but primarily employ carpenters, operating
19 engineers, and laborers. SCCA members annually employ
20 around 12 million personnel hours of construction labor.

21 Our concern today is how the proposed changes to
22 the Off-Road Rule will reduce the overall size of the
23 construction fleet and in turn reduce the State's ability
24 to construct projects. The industry estimates --
25 estimates that the current regulation and proposed amended

1 regulation will reduce the fleet by 62,000 pieces of
2 equipment. That's a 33 percent reduction in the total
3 California construction fleet. Naturally, some of that
4 equipment will be replaced with new equipment, but not all
5 of it. A reduction of 20 percent would still result in
6 38,000 less pieces of equipment.

7 Large general contractors are already facing
8 significant backlogs before they even begin to work on
9 projects. Twelve to 18 month delays before construction
10 starts is not uncommon. Eliminating 20 to 33 percent of
11 the state's off-road diesel fleet will simply add to those
12 delays. This means that it will take much longer to grade
13 the land for a solar farm, construct a bicycle bridge over
14 the interstate, or expand a transit line.

15 Assuming the Air Resources Board moves forward
16 with this proposed amendment, contractors will reduce
17 their fleet and the high-road employers, much swooned over
18 by the administration, legislature, and academic world
19 will be forced to layoff people that operate those
20 machines.

21 Madam Chair, SCCA contractors are high-road
22 employers. They pay an entry level operating engineer \$85
23 per hour for their work, \$85 per hour. This regulation on
24 the conservative end will eliminate 20 percent of the
25 existing fleet, eliminating 38,000 seats for those

1 workers. Once those jobs are eliminated, it will take a
2 decade for the industry to recover, hire back those
3 workers, and increase the industry's capacity.

4 Madam Chair, we're on the precipice of another
5 recession. We have high inflation, technology companies,
6 primarily based in California, laying off tens of
7 thousands of workers, and the LAO has signaled we're
8 looking at a State deficit.

9 We respectfully ask the Board to instruct staff
10 to reconsider the proposed amendment on CIAQC's letter,
11 and the troubling acceleration in reducing the size of the
12 construction industry fleet. Thank you, Madam Chair.
13 Thank you Board members.

14 BOARD CLERK HARRINGTON: Thank you.

15 Next is Manny Leon.

16 MANNY LEON: Hello, Madam Chair and members of
17 the Board. Manny Leon with the California Alliance for
18 Jobs. The Alliance has submitted a letter with formal
19 comments on the proposed Off-Road Diesel Fleet Regulation
20 prior to the November 7th deadline.

21 Let me first off -- first off start by saying
22 that the Alliance echoes many of the comments and concerns
23 provided to the Board and staff by other entities in the
24 construction industry. As written -- sorry -- into the
25 construction industry as will be provided here today in

1 public comments as well as with their written comments
2 submitted.

3 Several of these concerns include the vehicle
4 transition requirements being too extreme, the
5 availability of renewable diesel, the feasibility of
6 utilizing the renewable diesel to operate fleets in
7 certain weather conditions, the new enforcement mandates
8 on prime contractors, and lastly, the damaging economic
9 and financial impacts to the construction industry, if
10 this regulation is rolled out.

11 Concerns I want to specifically highlight here
12 are the impractical transition timelines for vehicles and
13 the negative economic and financial impacts to the
14 construction industry. In regards to the vehicle
15 transition requirements, we find the transition schedule
16 to unreasonably ex -- to be unreasonably accelerated and
17 impractical.

18 The present and future economic and geopolitical
19 issues we are -- we are and will be experiencing should be
20 taken into account in the development of the vehicle
21 transition requirements for large, medium, and small
22 fleets. We ask that the vehicle transition scheduled be
23 reconsidered with deadlines set for later dates, as
24 specified in many of the comment letters submitted to
25 staff. In regards to the economic and financial impacts,

1 the proposed regulation provides no financial support to
2 assist companies with the costs associated with the
3 proposed Off-Road Diesel Regulation.

4 The vehicles subject to this regulation are major
5 capital investments for our members and are usually part
6 of a multi-year capital investment program. It's
7 unreasonable to assume companies can simply purchase these
8 vehicles or vehicles at any time and the proposed
9 regulation does not factor in or consider many of the
10 circumstances our members face on a daily, monthly, and
11 annual basis.

12 As I've mentioned in many -- in public comments
13 before, we, the construction industry, stand here ready to
14 meet and confer with ARB staff to work on a proposal that
15 will be economically balanced, administrative --
16 administratively achievable and ultimately lead to a
17 successful implementation.

18 Thank you for your time.

19 BOARD CLERK HARRINGTON: Thank you.

20 Next, is Adam Harper.

21 ADAM HARPER: Chair Randolph, members of the
22 Board, Adam Harper with the California Construction and
23 Industrial Materials Association.

24 I want to -- briefly, I want to thank Nathan,
25 Johanna, and the entire CARB team. They were very

1 accessible. They responded to us. They listened. Thank
2 you. We are the construction aggregate, sand and gravel,
3 industry minerals, concrete and asphalt industry. We tend
4 to operate fixed facilities. We also have members that
5 are engaged in construction. So we kind of cover the full
6 gamut of covered equipment under this rule.

7 We would like to focus the Board's attention on
8 the phased timelines. We appreciate the Board recognized
9 that we are not ready for zero-emission vehicles in this
10 sector. We appreciate the ZETA process. We think
11 everyone recognizes the challenge of 2045 and adaptation.
12 And we would like to request that the Board change the
13 phaseout schedules by one year, as included in our comment
14 letter. This keeps you within the guidelines of your
15 mobility plan. It would give larger fleets the time to
16 look at that and figure out if they could develop a ZETA
17 plan, something that would target their fleet and look at
18 those options.

19 We also have suggested that in the ZETA plan you
20 consider enabling components of fleets. We operate fixed
21 site facilities, so if you're looking at how you
22 decarbonize a type of operation, you may not be able to do
23 it across your operations, but you may be able to look at
24 a facility and see if you can put a proposal in and
25 develop a decarbonization strategy. We think there is

1 value to enabling that type of activity. We think that
2 should be considered in modifications to the rule.

3 On renewable diesel, one, we agree that renewable
4 diesel is superior. It reduces emissions. It's a key
5 component of the early emissions reductions of this rule.
6 Our concern is it is written as a specific equipment
7 mandate. We suggested modifications that would make it a
8 purchasing contract obligation. So we think it would be
9 both easier to enforce. We think it would be much easier
10 for fleets to comply with. And obviously, if you did have
11 market disruptions, those records would be there.

12 The analysis that was done in the ISOR validated
13 that the vast majority of fleets in this sector are doing
14 large purchasings. So we think it's a proposal that would
15 be much easier and effective. Record keeping is becoming
16 an incredible burden for industry. You know the number of
17 rules you have. Every other agency has the same. Our
18 environmental professionals want to be out there on the
19 ground making changes, not doing paperwork, and trying to
20 develop tracking systems. And if we can develop rules
21 slightly more efficiently, it really is helpful.

22 In terms of the adding vehicles and retiring
23 vehicles -- thank you for your time. We submitted our
24 letter. Appreciate it.

25 BOARD CLERK HARRINGTON: Thank you.

1 Next is Nicholas Armstrong.

2 NICHOLAS ARMSTRONG: Good morning and thank you.
3 I'm Nick Armstrong representing Teichert Materials as well
4 as the current Chair of CalcIMA's Environmental Committee.
5 I'd like to second Adam's comments. As well, Teichert had
6 submit written comment. We appreciate the time CARB staff
7 has taken to understand the logistical implications of the
8 prime contractor responsibilities. Additionally, we'd
9 like to note that they've spent a lot of time
10 understanding the technical limitations that were recently
11 uncovered related to renewable diesel and cold weather.
12 We look forward to working them -- with them on that for a
13 solution.

14 At a minimum, we'd like to acknowledge that we
15 would support a 15-day change related to the renewable
16 diesel, as without this, we believe there's significant
17 impacts to operational abilities in cold weather.

18 Thank you.

19 BOARD CLERK HARRINGTON: Thank you.

20 Next is Brian McDonald.

21 BRIAN McDONALD: Good morning, Chair Randolph,
22 Board, and CARB staff. My name is Brian McDonald. I'm
23 here representing Tesoro Refining and Marketing. We're
24 wholly owned subsidiary of Marathon and more that you
25 would imagine would know that name.

1 So Marathon, through its subsidiaries, it's a
2 producer of renewable diesel as well as traditional
3 petroleum fuels. We operate one petroleum refinery and
4 several terminals, which distribute these fuels within
5 California. And we're also in the process of converting
6 one of our petroleum refineries to produce renewable
7 diesel.

8 You know, I'll just say that all of these
9 facilities do utilize the vehicles, which are regulated
10 under this rule. So, you know, at our -- at our
11 facilities, you know, off-road vehicles provide support
12 for the daily operation and maintenance of critical
13 equipment used to produce these fuels. The vehicles are
14 also used to support the transition of our Martinez
15 facility to a hundred percent renewable fuels. And so
16 while Marathon appreciates the role renewable diesel is
17 playing in this rule -- in this regulation, I do want to
18 comment on the rule's proposed deadlines for replacing
19 existing engines in vehicles.

20 So really it's just about the time to plan, bid,
21 and award contracts for this transition, you know -- or
22 purchase new vehicles. It's just too short. We do have
23 some Tier 0 vehicles in our fleet and essentially we're
24 facing a 13-month ban. While there is a compliance
25 extension in the rule, you know, the extension mostly, you

1 know, provides a pathway for, compliance but it's more on
2 the manufacturing availability side, not necessarily
3 addressing any certain needs is the facility might have
4 for this equipment, so we would say it, you know, falls a
5 little short on -- from our perspective.

6 And so, you know, what we're asking is for an
7 extension of these deadlines to transition our vehicles by
8 at least one year. We think that that's enough to be able
9 to, like I said, plan, bid, and, you know, more
10 efficiently transition our vehicles to really what your
11 goals are. So thank you very much.

12 BOARD CLERK HARRINGTON: Next is Daniel Barad.

13 DANIEL BARAD: Good morning, Chair and members.
14 Daniel Barad on behalf of Sierra Club California and our
15 500,000 members and supporters throughout the state.

16 We support the proposed Off-Road Diesel-Fueled
17 Fleet amendments and urge the Board to adopt them today.
18 We want to thank staff for their work on this rule and the
19 time they took to meet with us over the past few months.
20 Diesel pollution perpetuates the climate crisis and
21 endangers the lives of Californians, too many of whom are
22 burdened with the worst air quality in the country. As
23 the State looks towards a zero-emission future, it is
24 critical that it also plans for the retirement of
25 combustion engines, prioritizing the oldest and dirtiest

1 engines first.

2 These amendments would do just that by setting a
3 timeline for phasing out diesel -- dirty diesel off-road
4 engines. We support the establishment of these compliance
5 deadlines, but we also believe this timeline could even be
6 accelerated further, which would obviously deliver greater
7 emission reductions. We appreciate that these amendments
8 allow for the adoption of zero-emission technologies in
9 the off-road sector and we encourage CARB to continue to
10 look for opportunities to phaseout combustion entirely
11 whatever it's possible.

12 The adoption of these amendments will prevent
13 hundreds of premature deaths and hospital visits. They
14 will also help to slow the climate crisis and deliver the
15 emission reductions that are needed for California to
16 comply with the State Implementation Plan that the Board
17 just recently passed. Again, Sierra Club California
18 strongly urges you to adopt these life-saving amendments
19 today and we look forward to working with you in the
20 future to advance zero-emission technologies in this and
21 every sector.

22 Thank you.

23 BOARD CLERK HARRINGTON: Bill Magavern

24 BILL MAGAVERN: Good morning. Bill Magavern with
25 the Coalition for Clean Air. We urge you to adopt the

1 rule in front of you today without any reduction in
2 stringency or any delay. The existing off-road diesel
3 rule is one of the most effective measures this Board has
4 adopted to reduce toxic diesel exhaust, but it is 15 years
5 old and definitely is in need of the updates that are
6 being proposed today.

7 When you hear that amazing fact that staff gave
8 you, the -- some of the oldest engines can emit up to 80
9 times as much as a newer engine, then it becomes clear
10 that one of the most sensible measures that we can take is
11 to quickly phase out those old dirty diesel engines and
12 have them be replaced with existing available much cleaner
13 technology.

14 The benefits of the rule are substantial in terms
15 of hundreds of lives saved. Economically, the benefits
16 outweigh the costs by more than three times. And
17 importantly, the benefits are actually front-loaded. A
18 lot of the important rules that you adopt, the benefits
19 are mostly in 10 or 15 years time, but here, you get half
20 of them in the first five years. So this is an important
21 part of the SIP. It's a key piece of your efforts to
22 protect public health. And the amendments are reasonable
23 and feasible.

24 You know, we support the -- in addition to the
25 updating of the engines, requirement to use renewable

1 diesel. This is really one of the highest and best uses
2 of our renewable diesel, because a lot of these older
3 off-road engines, they don't have the modern emission
4 controls. So we get the greatest benefits from using
5 renewable diesel in those sorts of engines in terms of
6 reductions in NOx, in particulate matter, as well as the
7 greenhouse gas reductions.

8 So this is necessary, it's something that is
9 already part of your plans, and we urge you to stay the
10 course and approve this measure today.

11 Thank you.

12 BOARD CLERK HARRINGTON: Thank you.

13 Mike Buckantz.

14 MIKE BUCKANTZ: Thank you. Madam Chair, members
15 of the Board. I'm Mike Buckantz. I'm with the
16 environmental consulting firm Associates Environmental.
17 We assist users of off-road diesel equipment in their
18 planning to strategize to comply with not just this
19 regulation but diesel regulations throughout California.

20 Today, I'm here to oppose the amendments to the
21 Off-Road Diesel Regulation. You've heard much from the
22 staff today about the tens of thousands of tons of
23 emissions being reduced by banning the use of lower tier
24 equipment. However, the staff can't guarantee to you that
25 even one pound of those reductions are real, permanent,

1 verifiable, and enforceable. In fact, the proposed
2 amendments could, in some cases, result in emission
3 increase and here's the reason.

4 The current regulation has resulted in many, if
5 not most, of the lower tier engines being classified as
6 low use with an operational cap of up to, but not
7 exceeding, 200 operating hours a year. Under the proposed
8 regulation, these engines can't be used by entities
9 subject to the off-road diesel regulation, but they can be
10 moved to sectors not subject to the requirements of this
11 particular rule, where they could use them even beyond the
12 200-hour cap that's in place for most of these engines
13 today.

14 For this reason, the amendments proposed in front
15 of you right now are fatally flawed. We proposed to the
16 staff that they consider extending the regulation with
17 future lower fleet average targets to leverage the
18 existing regulatory framework that the industry has been
19 familiar with for more than 15 years now. And staff has
20 kind of dismissed this suggestion with basically a be
21 careful what you wish for response, and hasn't even
22 considered a discussion, or entertained a discussion,
23 about what those lower fleet average targets might be in
24 the future.

25 For those reasons and the others you've heard

1 here today, I recommend that you send this rule back to
2 staff for further consideration and thank you very much.

3 BOARD CLERK GARCIA: Thank you. That concludes
4 our in-person commenters and we will turn it over to our
5 remote commenters. We have nine commenters with their
6 hands raised in Zoom. So we'll start with Christine
7 Wolfe, Matt Cremins, Amanda Parsons DeRosier, and Mary
8 Alyssa Rancier.

9 So Christine, I have activated your microphone.
10 Please unmute and begin.

11 CHRISTINE WOLFE: Good morning, Chair Randolph
12 and members of the Board. This is Christine Wolfe with
13 the California Council for Environmental and Economic
14 Balance. CCEEB members include both off-road fleet owners
15 and operators as well as fuels producers.

16 We appreciate that emissions reductions from the
17 off-road sector are an important part of the state's
18 contribution to attaining federal air quality standards
19 throughout the state. We want to thank staff for their
20 engagement and assistance throughout this process.

21 Our primary concern is with the overlap between
22 the existing regulatory program and the proposed
23 amendments. CCEEB members, like others who've spoken
24 today, have been relying on the fleet averaging
25 methodology in order to comply with the requirements of

1 the current regulation. Capital planning for vehicles
2 subject to the proposed regulation often occurs two to
3 three years out from receipt of equipment, and delivery
4 typically takes about a year. These timelines have all
5 been exacerbated by the supply chain crisis, precipitated
6 by COVID-19.

7 For these reasons, we ask that all implementation
8 dates be pushed out by one year to accommodate both the
9 supply chain challenges and the fact that the current
10 regulation extends to 2023. In addition, we wish to note
11 that market based fuels-focused programs, like the Low
12 Carbon Fuel Standard, or the more appropriate place to
13 incentivize the use of renewable diesel, rather than
14 forcing specific fuels into specific end uses.

15 Thank you for your consideration.

16 BOARD CLERK GARCIA: Thank you.

17 Matt, I have activated your microphone. Please
18 unmute and begin.

19 MATT CREMINS: Thank you, Madam Chair and members
20 of the Board, Matt Cremins here on behalf of the
21 California Nevada Conference of Operating Engineers.
22 We're here today to express our sincere concerns regarding
23 the proposed amendment to the In-Use Off-Road
24 Diesel-Fueled Fleets Regulation, which will have a
25 substantial impact on our signatory contractors and our

1 apprenticeship programs across the state.

2 Our organization wholeheartedly supports the
3 goals of the regulation and we are not ignorant to the
4 current impacts that we are seeing climate change have on
5 our state. I would also point out that our apprenticeship
6 programs and contractor partners have worked diligently
7 and in good faith for years to meet the stringent
8 requirements that are currently place under this
9 regulation.

10 With that being said, we would urge caution with
11 these amendments and ask for more time to inspect the
12 impact that they may have on the State's ability to meet
13 our infrastructure needs as well as the impacts they may
14 have on our apprentices seeking to be the future of our
15 State's infrastructure workforce. As I'm sure this Board
16 knows well, the State currently has a wide variety of
17 infrastructure needs that rely heavily on the use of
18 off-road heavy equipment. These infrastructure needs
19 include, but are not limited to, bridge and road repair,
20 dam repair and water storage projects, fire cleanup and
21 wildfire mitigation works, green energy projects, as well
22 as housing projects, which I would point out the
23 Legislature just passed two major pieces of housing
24 legislation aimed at substantially increasing housing
25 production in the state to ease the state's current

1 housing crisis.

2 From what we have been told by our contractor
3 partners, this regulation will result in a substantial
4 decrease in available equipment for these increasingly
5 important projects, which means less work opportunities
6 for our members and apprentices, and an inability for the
7 State to meet its urgent infrastructure needs.

8 Again, we would respectfully urge caution and ask
9 for more time to thoroughly examine the impacts this may
10 have not just on our organization, but the infrastructure
11 needs of the state as a whole.

12 Thank you very much.

13 BOARD CLERK GARCIA: Thank you.

14 Amanda, I have activated your microphone. Please
15 unmute and begin.

16 AMANDA PARSONS DEROSIER: Thank you, Chair
17 Randolph and members of the Board for allowing us to
18 comment on Off-Road Vehicle Rule's proposed amendments.
19 My name is Amanda Parsons DeRosier and I'm here
20 representing global clean energy. We're a California
21 based renewable fuel company with a renewable fuels
22 refinery in Bakersfield, a disadvantaged community, as
23 well as offices in Torrance.

24 We appreciate CARB taking the benefits of
25 renewable diesel into account within your In-Use Off-Road

1 Vehicle Fleets rulemaking process. Thank you, Mr. Dean,
2 for outlining the -- renewable diesel's many benefits,
3 including its lower GHG and local emissions than
4 traditional diesel and biofuels. Also, it's use as a
5 drop-in replacement for modern traditional diesel engines
6 and the fact that unlike electric and hydrogen options
7 renewable diesel does not require large scale
8 infrastructure changes.

9 Global Clean Energy produces ultra low carbon
10 renewable fuels including renewable diesel. What makes us
11 unique is that we make our renewable fuels from a crop
12 called camelina. Our patented camelina varieties were
13 issued a first of its kind LCFS pathway by CARB in 2015.
14 We're working hard to drive our CI score to zero and below
15 in the coming years. Unlike other renewable fuel feed
16 stocks like soy and canola, camelina is non-food. It acts
17 as a cover crops, has quick maturity, drought tolerance,
18 pest tolerance, promotes biodiversity and does not
19 displace food when it is grown.

20 We encourage the further adoption of ultra low
21 carbon renewable fuels in further applications beyond
22 off-road vehicles, including stationary sources like
23 generator, and pumps, and hard-to-decarbonize areas like
24 marine vessels and rail. Further, we encourage the Board
25 to incentivize renewable diesel's enhanced use within the

1 off-road vehicle rule to include its use in areas beyond
2 the designated captive attainment area fleets.

3 Our clean energy future will require diverse low
4 carbon solutions and renewable fuels can play a key role
5 in propelling California toward reaching carbon neutrality
6 in 2025 or sooner. We encourage CARB to prioritize
7 innovative renewable fuels like Global Clean Energy's in
8 more applications throughout the State.

9 Thank you.

10 BOARD CLERK GARCIA: Thank you.

11 And after Mary will hear from Michael Lewis,
12 Rebecca Baskins, Adrian Martinez, Will Barrett, Bob
13 Shepherd, and Teresa Bui.

14 So Mary, I have activated your microphone.
15 Please unmute and begin.

16 MARY ALYSSA RANCIER: Hello, Chair and members of
17 the Board and staff. Good morning. My name is Mary
18 Alyssa Rancier and I'm speaking on behalf of Associated
19 General Contractors of California. AGC is a member-driven
20 organization with over 900 members that provide commercial
21 construction services that utilize off-road diesel
22 equipment.

23 While we support cleaner air for our communities,
24 we assert that the regulations that seek to accomplish
25 those goals are clear, consistent, and practical. As the

1 language is currently written, we have many concerns we'd
2 like to address. First, Tier 4, final equipment are
3 difficult to obtain. And this will only get worse as the
4 demand for them increases due to this regulation. We
5 assert that the phaseout of Tier 3 be extended to at least
6 January 1st, 2026, as Tier 3 still largely represents the
7 available equipment repower options.

8 Furthermore, Tier 4 interim should not be banned
9 from purchase at all, as the current NOx fleet average is
10 based on fleets meeting a final fleet average equivalent
11 to Tier 4 interim. We assert that the ban of Tier 4
12 interim equipment come no sooner than 2030.

13 Additionally, large fleets are not currently
14 eligible for funding, except through the Carl Moyer SOON
15 Program at South Coast AQMD. We encourage CARB to open
16 the Carl Moyer funding up to large fleets in all
17 California air districts, and to continue doing so moving
18 forward.

19 Second, in terms of renewable diesel, AGC of
20 California appreciates CARB's willingness to meet with
21 industry to collaborate on multiple occasions. We've
22 discussed and agree with the benefits of using renewable
23 diesel. We also appreciate your willingness to hear
24 potential issues with mandating R99 or R100. For
25 instance, the additional cost of feedstock procurement and

1 transportation of fuel make renewable diesel approximately
2 \$2 more a gallon than red-dyed diesel.

3 Additionally, renewable diesel has proven to be
4 problematic in cold climates due to its associated cloud
5 point. Renewable diesel can solidify in equipment in
6 climates that reach temperatures 23 degrees Fahrenheit or
7 lower, which not only damages the equipment, but also
8 poses a safety concern for the operator. We assert CARB
9 to add an exemption to allow fleets to use a mix of Diesel
10 1 and renewable diesel in these situations to prevent any
11 disruption. We suggest looking at detail provider within
12 AGC of California member Teichert's comment letter for
13 more information.

14 Third, we urge CARB to remove prime contractor
15 requirements, as this is an inappropriate role for
16 contractors to play. We believe that it can and should be
17 carried out by CARB staff. We want to comment and thank
18 the Board and staff for their efforts and inclusiveness in
19 the development of this regulation. We encourage the
20 Board to consider and address our industry comments.

21 Thank you for your time.

22 BOARD CLERK GARCIA: Thank you.

23 Michael, I have activated your microphone.

24 Please unmute and begin.

25 MICHAEL LEWIS: Hi. This is Michael Lewis with

1 the Construction Industry Air Quality Coalition. And on
2 behalf of our Association members and their 2,000
3 contractor companies which employ approximately 300,000
4 of the 900,000 construction workers in California, I want
5 to offer our thoughts on some changes to this off-read
6 proposal.

7 As the current rule reaches its final fleet
8 average requirements over the next five or six years, we
9 believe that the statewide fleet is going to shrink from a
10 peak of 192,000 machines to 130,000 machines. That's
11 fully one-third of the fleet that will have to go in order
12 to meet the current fleet averages. Almost 19,000
13 machines have disappeared in the last two years alone to
14 meet that standard. Every one of those machines
15 represents a seat for a worker that is no longer
16 available.

17 Most of this equipment is not likely to be
18 replaced in the next few years because of the very high
19 cost, the fact that we're entering a recession of unknown
20 duration, and we have already replaced 54 percent of the
21 fleet, 95,000 machines, with Tier 4 final engines in the
22 last six years, the latest -- the latest and newest
23 cleanest diesel engines in the world at a cost of billions
24 of dollars, not the few hundred million estimated by your
25 staff 12 years ago. When this rule was adopted in 2007,

1 it was the most expensive rule CARB ever approved. And
2 with these amendments, it will continue to be so.

3 There are six things we're asking of you today.
4 One, modify the turnover requirements. They are too
5 extreme. The elimination of Tier 0 should be extended
6 from 2023 to 2026. Phaseout of Tier 3 should be extended
7 to 2028. Tier 2 is already banned. Tier 4 interim should
8 not be banned at all in 2004 -- or '24. The current final
9 fleet average is equivalent to a Tier 4 interim. Most
10 fleets will need that equipment to achieve compliance and
11 the compressed two-year schedule is just too extreme.

12 Narrow the scope of this rule to two air
13 districts that need the extra reductions. The remainder
14 of the state is achieving compliance with State and
15 federal standards and CARB has done nothing to regulate
16 the ag and forestry fleets in those areas that use exactly
17 the same machines. It's unfair to burden only contractors
18 were it not necessary to achieve air quality standards.
19 This will also allow the statewide fleets to put their new
20 equipment in those two districts to get early reductions
21 you are seeking

22 Three, we don't believe the staff projections on
23 the availability of renewable fuel. We would suggest that
24 you add a definition of "if available" that includes
25 relative costs, remote sites, in-state producers, fleet

1 mix, long-term contract requirements, et cetera.

2 Fourth, contractors should not be responsible for
3 enforcement. A certificate of reported compliance is
4 sufficient for determining contractor subcompliance --
5 subcontractor compliance. We would ask that you remove
6 section 2449(d)(6)(I). It assumes yet undeveloped engine
7 would be required that is not certified by EPA but
8 approved by CARB. It's inappropriate to include that
9 language at this -- at this time.

10 And finally, we ask that you consider the
11 cumulative effect of this rule on our industry. We are
12 implementing your Portable Equipment Rule, your Advanced
13 Clean Fleets and Truck Rule, Heavy-Duty Vehicle Inspection
14 and Maintenance, and Forklift Rule. We would ask that you
15 include a thorough review of the impacts and costs of this
16 rule to take place by the Board in 2027 to determine if
17 the effects have been as you originally projected.

18 Thank you.

19 BOARD CLERK GARCIA: Thank you.

20 Rebecca, I have activated your microphone.

21 Please unmute and begin.

22 REBECCA BASKINS: Good morning, Chair and
23 members. Rebecca Baskins on behalf of California Advanced
24 Biofuels Alliance and Clean Fuels Alliance America.

25 First and foremost, thank you to Nathan and

1 Johanna for your accessibility during this regulatory
2 process. While we applaud amending the regulation to
3 require the use of renewable diesel, we believe other
4 drop-in fuel replacements, such as blends of renewable
5 diesel and biodiesel should be an available alternative,
6 especially when the regulation is worded to default to
7 allow the use of petroleum diesel in the event renewable
8 diesel is unavailable.

9 While both fuels provide significant benefits on
10 their own, blending the fuels together maximizes both the
11 environmental and economic profiles of biodiesel and
12 renewable diesel. Renewable diesel biodiesel comprise of
13 up to 20 percent biodiesel and 80 percent renewable diesel or
14 R80/B20 will reduce emissions, perform higher, and provide
15 supply and cost benefits to California communities.

16 Furthermore, over the past six consecutive
17 quarters, biodiesel and renewable diesel blends have
18 exceeded the 2.75 to 1 ratio determined by CARB as being
19 NOx neutral for biodiesel, renewable diesel blends and
20 used in older legacy vehicles as established by their
21 recent amendments -- or recently amended Alternative
22 Diesel Fuel Regulation. This, coupled with the high
23 turnover to new technology diesel engines, means that any
24 remaining NOx concerns involving biodiesel used in
25 California vehicles has been effectively addressed by the

1 market.

2 At the very least, biodiesel and renewable diesel
3 blends should be required for the use in regulated fleets
4 when R99 or R100 is not available. To permit the use of
5 petroleum diesel when blends of renewable diesel and
6 biodiesel are available in the absence of R99 or R100
7 makes little sense, but that is how the current proposed
8 regulatory text is worded. To address this, we provided
9 staff with suggested amendments as described in our
10 comments that would replace the petroleum diesel default
11 fuel with a renewable diesel and biodiesel blend.

12 There is not single solution to help California
13 achieve its ambitious goals. Allowing blend alternatives
14 as well as R99 and the Off-Road Regulation will help
15 California achieve emission benefits immediately, while
16 the State pursues its decarbonization efforts. We look
17 forward to continual -- continuing working with you all on
18 this.

19 Thank you.

20 BOARD CLERK GARCIA: Thank you.

21 Adrian, I have activated your microphone. Please
22 unmute and begin.

23 ADRIAN MARTINEZ: Good morning, Chair and members
24 of the Board. My name is Adrian Martinez. And I'm here
25 on behalf of Earthjustice. We're here to support this

1 rule. This is an important opportunity to get near-term
2 emission reductions in a critical sector. We have an
3 off-road pollution crisis in this state, as evidenced by
4 the recent state tragedy which shows a large portion of
5 our emissions coming from off-road sector.

6 I think staff has done a good job of identifying
7 some ways to hasten the, you know, retirement and moving
8 away from what is very antiquated and old and heavily
9 polluting equipment in the off-road sector. I think it's
10 apt that we're having this discussion today on the same
11 day that you heard about a conformity lockdown in the
12 Coachella, which has frozen 20 plus billion dollars in
13 infrastructure projects because of air quality concerns.

14 It's important that we tackle a wide range of
15 emissions from off-road, on-road, and I think this is an
16 important step to provide immediate relief in the next
17 five years to communities all across the state, but
18 particularly in places like the South Coast Air Basing and
19 the San Joaquin Basin -- San Joaquin Valley, which are
20 experiencing unconscionable levels of air pollution.

21 We hope you will move forward adopting this plan
22 and reject any efforts to weaken it, delay it, or just not
23 move forward. Thank you for the time to present today.
24 And I look forward to hearing Board discussion on this
25 item.

1 Thank you.

2 BOARD CLERK GARCIA: Thank you.

3 Will, I've activated your microphone. Please
4 unmute and begin.

5 WILL BARRETT: Hi. Thank you. This is Will
6 Barrett with the American Lung Association.

7 And first, I want to say thank you to the Board
8 and the staff for all of the time and the very good work
9 that you've put into this life-saving policy proposal.

10 The Lung Association we're in strong support of
11 this rule amendment package to cut cancer risk and save
12 lives by reducing toxic diesel exhaust in communities and
13 on job sites across California. We urge you to adopt his
14 amended rule today without delay. The in-use amendments
15 target real-world emission benefits, support attainment of
16 health protective ozone standards, and will save hundreds
17 of lives by phasing out the oldest, dirtiest equipment, up
18 to 80 times more -- you know, more high polluting in some
19 cases, as noted earlier, and really bringing the cleanest
20 possible equipment online as soon as possible.

21 The amendments are built on a long public process
22 on a even longer standing existing rule that the Board has
23 adopted. The proposals takes appropriate steps specific
24 to the various equipment and emission controls. And
25 again, we really need to emphasize that these are

1 amendments and have long been discussed with industry,
2 trade associations, and fleets throughout the development
3 process.

4 Delay is not an option and moving more quickly
5 would certainly be welcome given the cumulative burdens
6 posed by toxic air generated by this sector in communities
7 across California. The policy amendments will save
8 hundreds of lives, present -- prevent tons of NOx
9 emissions daily, and signal the end of the oldest,
10 dirtiest equipment that should be phased out as rapidly as
11 possible to protect the hearts and lungs of workers and
12 California communities against these oldest highest
13 polluting pieces of equipment.

14 Again, these are not new concepts. And while we
15 appreciated the proposed schedule for phaseout, we believe
16 that the schedules could even be accelerated to bring
17 healthier air online sooner to communities all across the
18 state. And we support the pathways to zero emissions to
19 fully eliminate the burdens posed by diesel exhaust in
20 this sector, and believe that CARB must continue to work
21 hard to make this transition happen as quickly as possible
22 to save more lives and reduce more pollution.

23 We support the proposed amendments before you
24 today and urge you to adopt the package today really as
25 the absolute minimum in terms of stringency and timing to

1 bring these real-world health benefits online as quickly
2 as possible.

3 So with that, thank you again for the strong
4 work, the communication throughout the process, and really
5 again keeping in mind that this means healthier
6 communities, better occupational health, and a healthier
7 climate for all Californians.

8 Thank you.

9 BOARD CLERK GARCIA: Thank you.

10 Bob Shepherd, I have activated your microphone.
11 Please unmute and begin.

12 BOB SHEPHERD: Good morning, Chair Randolph, Vice
13 Chair Berg, and Board members. I'm Bob Shepherd and today
14 I'm speaking on behalf of the six California Caterpillar
15 dealers. Our companies are committed to reducing their
16 emissions impacts. And as a result each of our dealers
17 reported off-road mobile diesel fleets met final
18 compliance several years ago and are presently well below
19 the required fleet average.

20 But we have concerns with several of the
21 amendments that we are -- have identified in our letter to
22 the Board and I'll summarize today. The Tier 0 ban by
23 2024 for large fleets will put an unexpected financial
24 burden on those fleets that have used early compliance
25 carryover credits and planned the compliance years in

1 advance of 2023. The deadline must follow more closely
2 the current regulation design, which would meet the goal
3 closer to 2025 or 2026, instead of 2024. Given the cost
4 of replacement of these machines, we ask the Board to
5 allow these large fleets a 2026 deadline instead of the
6 proposed accelerated 2024 deadline.

7 On the Tier 3 deadline, the deadline should be
8 moved to 2026 instead of 2024. Small fleets will be
9 banned on purchasing Tier 2 at the end of this year. And
10 then only a year later, they'll be banned on Tier 3 even
11 though those fleets are not required to be at a Tier 3
12 fleet average until sometime in 226.

13 As a Tier 4 interim purchased ban on 2024, we do
14 not agree that this is necessary. All fleets must
15 ultimately reach a final fleet average of Tier 4 interim,
16 so why remove machines that assist all fleets in reaching
17 the final goal. We suggest a Tier 4 interim purchase ban
18 only go into effect if a more stringent standard beyond on
19 Tier 4 final is adopted by CARB. But such a ban should
20 not occur any earlier than 2030.

21 As for renewable fuel, that mandate is 1/1/2024.
22 If this Board approves these changes today, it will be
23 well within the year next year before final approval by
24 OAL, thus 12,000 fleets will be scrambling all at once to
25 meet the 2024 deadline. Laws of supply and demand will

1 most certainly raise the cost of this fuel. We suggest
2 CARB instead delay the mandate until 2028 and in the
3 interim perhaps provide incentives for use -- early use of
4 the fuel.

5 Finally, section 2449(d)(6)(I) needs to be
6 removed for reasons stated in our letter and Caterpillar's
7 letter. This statement is not appropriate in this in-use
8 regulation. This statement only belongs in the new engine
9 standard regulation, if and when that occurs. We ask this
10 Board to direct staff to: one, move the Tier 0 ban for
11 large fleets to 2026; move the Tier 3 purchase ban
12 deadline to 2026; remove the purchase ban from Tier 4
13 interim at least until a more stringent standard is
14 adopted, but no sooner than 2030; move the mandate for
15 renewable fuel to 2028 and in the interim provide an
16 incentive program for early conversion; five remove
17 2449(d)(6)(I) in its entirety.

18 We want to -- the Caterpillar dealers thank you
19 for these comments that we put together today.

20 BOARD CLERK GARCIA: Thank.

21 Lastly, we'll hear from Teresa Bui and Mark
22 Roest.

23 So Teresa, I have activated your microphone.
24 Please unmute and begin.

25 TERESA BUI: Good morning. This is Teresa Bui

1 with the environmental non-profit group Pacific
2 Environment. I just want to thank you staff for all your
3 hard work on this. We are supporting the rule and urging
4 the Board to adopt the rule today.

5 We just want to echo the comments made in support
6 by advocates like Earthjustice, American Lung Association,
7 and Coalition for Clean Air. Off-road mobile machinery
8 makes up about 35 percent of all statewide transportation
9 pollution. And the proposed rule will result in 571 fewer
10 premature deaths statewide. The value due to avoided
11 health outcomes would be about \$5.74 billion. Controlling
12 off-road pollution is vital to protecting Californians.
13 And while we recognize that the rule provisions does not
14 require zero-emission, we do appreciate CARB's effort to
15 allow for more zero-emission technology, as we are seeing
16 with the rapid development of electrification technology.

17 And so with that, again, we are urging you to
18 adopt the rule today and thank you for your attention.

19 BOARD CLERK GARCIA: Thank you.

20 Mark, I have activated your microphone. Please
21 unmute and begin.

22 MARK ROEST: Hello. I'm Mark Roest with
23 Sustainable Energy, Inc., and Silicon Valley Clean Cities
24 Coalition. Thank you, Chair and members of the Board.

25 There's a company that has developed low-cost

1 high-power kits to convert diesel drivetrains to full
2 battery electric power. It is completing a Class 3 box
3 truck demonstration at this time. It is designed to
4 provide ample power for demanding duty cycles, such as
5 off-road equipment has.

6 I ask that the Board direct staff to coordinate
7 focused funding for demonstration projects to adapt the
8 technology to specific off-road equipment and test and
9 certify it, and then move directly to larger
10 demonstrations and then pilot projects. I also ask that
11 the Board direct staff to coordinate with the CEC, so that
12 incentive funding is available before the work is done for
13 both vehicle conversion and charging and solar fueling to
14 provide the electricity necessary to power the vehicles
15 wherever they are.

16 And I would add to that that there are batteries
17 and solar -- solar fuel -- solar thin film power coming in
18 technology development that will increase the power
19 available in a battery to 3 kilowatt hours per kilogram
20 and the effective -- and the efficiency of solar
21 conversion to 30 -- 42 percent efficiency in high volume
22 production. And both of those will be at lower cost than
23 current batteries in solar -- in solar panels. So this
24 means that with support from the State, the -- these
25 technologies can be brought forward and then they are

1 designed so they're rapidly scalable. And the cost of the
2 capital equipment for them is greatly less for the solar
3 and batteries and the conversion kits are using existing
4 mass produced components.

5 Thank you very much.

6 BOARD CLERK GARCIA: Thank you.

7 And it looks like we have one more hand up in
8 Zoom. That's Angela Abuda.

9 And Angela, I have activated your microphone.
10 Please unmute and begin.

11 ANGELA ABUDA: Hello. I'm Angela Abuda with
12 Environment California. And I'm also a student at UC
13 Davis majoring in political science and minoring in
14 environmental policy analysis and planning.

15 Environmental California is part of the Charge
16 Ahead California Initiative. And we strongly support the
17 funding plan overall. We appreciate CARB working with
18 stakeholders to develop an expansion plan for Clean Cars 4
19 All that will expand service to the state, while
20 continuing to prioritize disadvantaged communities.

21 CARB's vision of implementing a needs-based
22 application process is laudable. However, we urge you to
23 develop this application process in a public and
24 transparent process. It must also be designed in a way
25 that addresses community needs and is compatible with

1 current Clean Cars 4 All programs.

2 Jointly administering Clean are -- Clean Cars 4
3 All and financing assistance programs will present a
4 unique challenge. Both programs will have different needs
5 and different skill sets. Further, clarity is needed
6 regarding the role of current administrator of the State
7 Clean Vehicle Assistance Program.

8 We also continue to support fleet size limits and
9 prioritize assistance to small fleets. CARB's proposal
10 would provide a reasonable transition period to phase in
11 fleets size limits that replaces dirty, high-polluting
12 equipment with cleaner models including zero-emission
13 equipment and will yield significant public benefits for
14 our most vulnerable communities.

15 California will need to continue to support
16 medium- and heavy-duty incentive programs, given the
17 sectors outsized role in producing climate and health
18 harming pollutants.

19 We hope you adopt this plan and thank you for
20 your time.

21 BOARD CLERK GARCIA: Thank you.

22 And that concludes the commenters for this item.

23 CHAIR RANDOLPH: Thank you.

24 Staff, are there any issues you wanted to address
25 before I close the record on this item?

1 MSCD DIVISION CHIEF VERGIS: Yes. Thank you,
2 Chair and Board. Sydney Vergis, Division Chief for the
3 Mobile Source Control Division.

4 So I just will provide a quick summary of some of
5 the concerns that we heard today, which I would broadly
6 put in the category of too quick. So for some context
7 today, we're talking about a regulation that's been on the
8 books for 15 years and it has certainly started the
9 phaseout process of getting Tier 0s out of our various
10 equipment fleets, but we know we need to move faster. As
11 you heard from the staff presentation today, Tier 0
12 equipment emits 80 times more than Tier 4 final equipment.
13 And as you saw when this concept was established in the
14 2020 Mobile Source Strategy and recently in September of
15 this year when the Board adopted the SIP, we know that
16 from a State and community perspective that we need these
17 near-term reductions now.

18 In terms of some specific categories of concerns
19 we heard, we heard concerns about the availability of
20 renewable diesel. We know that renewable diesel is
21 readily available today, thanks in large part to the LCFS
22 Program at no incremental cost to fleets. We also heard
23 from CalCIMA, as they noted the proposed language around
24 procurement of renewable diesel. It's certainly not
25 intended to be at the vehicle level necessarily. So we

1 can take a look at that language to make sure that intent
2 is reflected in that language. But their understanding is
3 the same as ours about what it should be.

4 In terms of phasing out too quickly, for Tier 0
5 for a large fleet phaseout in 2024, as indicated in the
6 September SIP, this is long overdue. We've heard from
7 many communities, specifically 10 AB 617 communities that
8 noted that off-road equipment was a major concern. And
9 just a few observations about Tier 0 that I want to put on
10 the table. The youngest piece of Tier 0 equipment in the
11 year 2024 will be 25 years old. What does this provision
12 mean for large fleets? Well, we know that five percent of
13 the composition of large fleets is Tier 0 equipment. So
14 that's what we're asking for in 2024, five percent.

15 In terms of Tier 4 final availability, as you
16 heard in staff's presentation, this equipment has been
17 readily available for seven years now. This is not new
18 technology and it already makes up 64 percent of the
19 equipment in large fleets.

20 The regulation already contains a number of
21 flexibilities related to manufacture delay provisions or
22 availability issues. And in terms of the ask to push back
23 our various timelines, we did model that. And the result
24 is that we would miss the Board's SIP commitment for this
25 particular requirement and regulation by a significant

1 percentage.

2 So with that, happy to answer any questions you
3 might have. Thanks.

4 CHAIR RANDOLPH: Okay. I'm going to go ahead and
5 do the -- close the record on this agenda item and then
6 we'll have board questions and discussion.

7 So I'm closing the record. If it is determined
8 that additional conforming modifications are appropriate,
9 the record will be reopened and a 15-day Notice of Public
10 Availability will be issued. If the record is reopened
11 for a 15-day comment period, the public may submit written
12 comments on the proposed changes, which will be considered
13 and responded to in the Final Statement of Reasons for the
14 regulation.

15 Written or oral comments received after this
16 hearing date, but before a 15-day notice is issued will
17 not be accepted as part of the official record on this
18 agenda item. The Executive Officer may present the
19 regulation to the Board for further consideration, if
20 warranted, and if not, the Executive Officer shall take
21 the final action to adopt the regulation after addressing
22 all appropriate conforming modifications.

23 Okay. So I will turn it over to my colleagues.
24 We will start with Board Member Riordan.

25 BOARD MEMBER RIORDAN: Thank you, Madam Chair.

1 For the staff, I wondered from the first speaker
2 that we had today, it seemed to me what he was saying was
3 that he placed orders for equipment, but due to nothing
4 that he had done, but in the delivery process, they could
5 not deliver that equipment on time. Is there anything in
6 our amendment or what we are amending for something that
7 is beyond the control of the purchaser, but just simply
8 can't be delivered? Is -- that's my first question. And
9 maybe you'd like to answer that, then I have a second
10 question.

11 MSCD OFF-ROAD IMPLEMENTATION SECTION MANAGER

12 LEVINE: I can take that. Johanna Levine with the Mobile
13 Source Control Division. The current regulation includes
14 a provision for manufacturer delays. So if a fleet puts a
15 purchase -- has a purchase order for a piece of --

16 CHAIR RANDOLPH: Can you speak up? We can't
17 quite hear you.

18 MSCD OFF-ROAD IMPLEMENTATION SECTION MANAGER

19 LEVINE: I'm sorry. I'm sorry.

20 Johanna Levine with the Mobile Source Control
21 Division. The current regulation already has a provision
22 that provides flexibility if -- for manufacturer delays.
23 So if a fleet has a purchase order for a piece of
24 equipment and they are unable to obtain it, if there's a
25 delay on the manufacturer side with delivery, then they

1 can continue to use their old piece of equipment until
2 that piece of -- till the new piece of equipment is
3 delivered. So that's already included in the regulation
4 today.

5 BOARD MEMBER RIORDAN: Okay. Thank you, because
6 that was of concern to me, because there are a number of
7 delays as we know.

8 Then my next question is one of funding and one
9 of the speakers brought that up. Just for the record,
10 could you elaborate, and for those who are listening
11 today, the funding opportunities? And I'm wondering if
12 there's anything in the federal infrastructure bill that
13 might be able to help some of these companies procure the
14 newer technology.

15 MSCD DIVISION CHIEF VERGIS: Yeah. So Sydney
16 Vergis again. So in terms of a lot of the comments that
17 we certainly got on the docket and got today was primarily
18 around the Carl Moyer Program. And just to be frank, you
19 know, we -- the current status quo has been the current
20 regulation plus Carl Moyer in terms of trying to clean up
21 the sector, but we know we need to move faster. And so
22 there are certainly implications for large fleet
23 eligibility in this regulation for the Carl Moyer Program.

24 Small and medium fleets will have longer
25 opportunities to be eligible for our statewide incentive

1 programs. I would need to look into the federal -- the
2 specifics of the federal question you asked.

3 BOARD MEMBER RIORDAN: Okay. So we really only
4 have at the State level right now the Carl Moyer Program,
5 is that correct?

6 MSCD DIVISION CHIEF VERGIS: Certainly when it
7 comes to combustion. When it comes to helping to get
8 zero-emission technologies on the road, we also have the
9 CORE Program, which you'll be hearing quite a bit about in
10 the next item.

11 BOARD MEMBER RIORDAN: Okay. Very good. Thank
12 you for those clarifications. I appreciate that.

13 CHAIR RANDOLPH: Thank you.
14 Supervisor Serna.

15 BOARD MEMBER SERNA: Thank you, Chair. I just
16 wanted some clarification on the comments that were
17 provided by a number of folks here today in person and I
18 believe in writing. And I certainly had an opportunity to
19 hear directly from Teichert about the cold weather issue
20 relative to renewable diesel. I think during the course
21 of your presentation, you mentioned that there would be
22 some provision to - is it a blending - certain percentage
23 blending with standard diesel that would be permitted?

24 MSCD AIR POLLUTION SPECIALIST DEAN: Yeah, so
25 that is -- we are working with stakeholders to develop

1 exactly what those 15-day changes will look like, but that
2 is the idea currently is that we would allow blending to
3 ensure that the low temperature operates properly.

4 BOARD MEMBER SERNA: And is that something that
5 we're investigating through our own, you know, lab
6 sciences? I mean, are we -- are we -- what are we -- what
7 are we relying on to understand the reliability of that?

8 MSCD AIR POLLUTION SPECIALIST DEAN: So we do
9 have internal experts on the fuel side that we're working
10 with to make sure that all of the scientific information
11 is correct and that we're work with our fuels group and
12 then hearing what the stakeholder feedback is and
13 understanding they -- what they are seeing in the field.
14 So we're kind of working internally with experts and then
15 the stakeholders as well.

16 BOARD MEMBER SERNA: And in terms of
17 implementation, would that likely have a calendar
18 associated with it in terms of when and where, whether
19 it's, for instance, up at altitude or during certain
20 winter months where this provision would be applicable?

21 MSCD AIR POLLUTION SPECIALIST DEAN: So we
22 haven't developed the specifics yet, but the idea is that
23 under certain climate conditions, this sort of exemption
24 or the provision would kick in. We're still working on
25 like if it would be a certain temperature or a certain

1 climate, but that is something that we're developing. So
2 we're working with stakeholders and our fuel experts to
3 develop what the right -- how to limit the exemption to
4 properly work.

5 BOARD MEMBER SERNA: Great. All right. Thank
6 you.

7 CHAIR RANDOLPH: Board Member Eisenhut.

8 BOARD MEMBER EISENHUT: Thank you, Chair. I have
9 a very narrowly focused question for staff. I believe
10 that Cal Fire -- and it has to do with contract
11 regulations. I believe that Cal Fire has a lot of
12 equipment subcontracted. And I'm curious as to whether
13 this is exempt as emergency equipment, if this is covered
14 in the contract requirements as described?

15 Thank you.

16 MSCD OFF-ROAD IMPLEMENTATION SECTION MANAGER
17 LEVINE: Yes, that equipment that's operating for
18 wildfire, that would be considered in emergency
19 operations.

20 BOARD MEMBER EISENHUT: Thank you.

21 CHAIR RANDOLPH: Vice Chair Berg.

22 VICE CHAIR BERG: Good morning, everyone. Thanks
23 so much for everybody's testimony and all the hard work.
24 I want to start out by saying that this -- this Off-Road
25 Rule is critical, but I'm really concerned why we hadn't

1 addressed it before, if given -- and truly am concerned
2 about the time frames.

3 So I have a couple of questions that I'd really
4 like to have staff help me clarify, so that I can maybe
5 get more comfortable. I'd like to understand what are the
6 emission benefits differences from a Tier 4 interim with
7 renewable diesel versus a Tier 4 final? And I'm asking
8 that because I'm trying to understand the purchase band.

9 MSCD OFF-ROAD IMPLEMENTATION SECTION MANAGER

10 LEVINE: So that would be-- even in a Tier 4 interim, Tier
11 4 interims do not have SCR or DPFs. You would still see
12 the 30 percent PM benefit and the 10 percent NOx benefit.
13 So we can run those numbers right now. I don't have them
14 off the top of my head, but it would still be the same
15 percent benefit off the engine standard for the emission
16 factors.

17 VICE CHAIR BERG: Okay. Including the --
18 including the renewable diesel. So then it would be even
19 a greater benefit if they didn't use diesel, is that
20 correct?

21 MSCD OFF-ROAD IMPLEMENTATION SECTION MANAGER

22 LEVINE: A greater benefit. I'm sorry, can you clarify
23 the -- a greater benefit than a Tier --

24 VICE CHAIR BERG: If we hadn't -- if we didn't --
25 if you didn't have the provision of the renewable diesel,

1 then it even would be a bigger benefit, is that what I'm
2 hearing?

3 MSCD OFF-ROAD IMPLEMENTATION SECTION MANAGER

4 LEVINE: Oh.

5 EXECUTIVE OFFICER CLIFF: Vice Chair Berg, this
6 is Steve Cliff. I think what you're asking is switching
7 from interim to final, if you weren't using renewable
8 diesel would have a greater emissions benefit, is that
9 correct?

10 VICE CHAIR BERG: Yes. Yes.

11 EXECUTIVE OFFICER CLIFF: Yes, that's correct.
12 What Johanna was saying is that by using renewable diesel,
13 in the interim engine, you would see a 30 percent benefit
14 in PM and 10 percent in NOx. So you're correct that if
15 you were not using renewable diesel, you would see an even
16 greater benefit by switching to Tier 4 final.

17 VICE CHAIR BERG: And then switching to the cost,
18 is it fair to say that the first five years the costs --
19 the cost of this rule has the largest impact?

20 MSCD OFF-ROAD IMPLEMENTATION SECTION MANAGER

21 LEVINE: That would be fair.

22 VICE CHAIR BERG: Okay. And looking at the
23 current compliance and inspection, what is our percentage
24 of enforcement when we're look -- with the enforcement,
25 what percentage is non-compliance?

1 ED ASSISTANT CHIEF QUIROS: Hi. This is Heather
2 Quiros with the Enforcement Division. I think you're
3 asking compliance rate for the Off-Road Regulation when we
4 do inspections. Over the last several years we've sort of
5 hovered around 80 to 90 percent compliance rate for the
6 Off-Road Regulation with approximately 86 percent
7 compliance rate in disadvantaged communities.

8 VICE CHAIR BERG: With approximately what?

9 ED ASSISTANT CHIEF QUIROS: Approximately 86
10 percent compliance rate in disadvantaged communities.

11 VICE CHAIR BERG: Okay. Thank you. And so when
12 we talk about having a certificate having CARB have the
13 certificate of compliance for the fleets. What happens
14 when a fleet who is not meeting the compliance, but who
15 are turning over the 10 percent as required by the current
16 rule, do they get a certificate of compliance?

17 MSCD OFF-ROAD IMPLEMENTATION SECTION MANAGER

18 LEVINE: Yes, they do, because they would be in compliance
19 with the regulation.

20 VICE CHAIR BERG: So I'm just trying to
21 understand what we're asking of the primary contractors
22 and what does it mean by observe? You know, that's kind
23 of a little bit fuzzy to me. What are we expecting the
24 primary contractors to do as they -- as part of the
25 requirement to help us make sure the level playing field?

1 MSCD AIR POLLUTION SPECIALIST DEAN: So the --
2 this is Nathan Dean again. So the first piece of the
3 provision is, you know, checking that the prime contractor
4 checks that the fleet has a valid certificate of
5 compliance.

6 VICE CHAIR BERG: I understand that part, Nathan,
7 so I'll just help you. I just want to know what the
8 definition of report observe non-compliance to CARB? What
9 does that mean?

10 MSCD AIR POLLUTION SPECIALIST DEAN: So the idea
11 there is that in the fields often -- or sometimes vehicles
12 will potentially be mislabeled and the idea is that a
13 prime contractor, if they see that a vehicle is mislabeled
14 or if they see something that is not compliant on their
15 job site that they have direct control over, that they
16 would report that to CARB. So it's direct purview over
17 the job site. And if they observe something on a vehicle
18 that is non-compliant, they would report that.

19 VICE CHAIR BERG: And how will we quantify that
20 as far as if CARB is on-site for an inspection and finds a
21 non-compliant vehicle? How are you going to decide if a
22 prime contractor violated that part of the regulation?

23 ED ASSISTANT CHIEF QUIROS: I can jump in on
24 that. I think what we would do, if we did see a
25 non-compliant piece of equipment on-site, we would be

1 pursuing enforcement action against the owner of that
2 piece of equipment. The prime contractor is responsible
3 for checking that certificate of compliance. And if they
4 did that due diligence, then they would not be liable if
5 there does happen to be a non-compliant piece of equipment
6 there.

7 VICE CHAIR BERG: Okay. That's really helpful
8 for me, so thank you very much. I really appreciate that.
9 I am really concerned about the -- about the phase-in
10 starting in a mere 12 months. And I have just really been
11 struggling over -- trying to understand and really in this
12 economic environment and in our construction environment,
13 how this is going to work that is not going to have a big
14 impact. And I -- I'm just really struggling with it. I
15 just have to let everybody know.

16 So thank you for listening.

17 CHAIR RANDOLPH: All right. Dr. Sperling.

18 BOARD MEMBER SPERLING: So I like this rule a
19 lot. I like the, you know, performance standards tier,
20 you know, moving to more low-emission engines and moving
21 eventually to electric. But there was a part of it I
22 hadn't really paid attention to that really got my
23 attention here and that's the renewable diesel part.

24 So the renewable diesel is here because -- mostly
25 because of the Low Carbon Fuel Standard. And we're seeing

1 a lot of new production coming in. So I have a couple of
2 questions. The first question is just to understand the
3 industry. My understanding is these big refineries are
4 making the renewable diesel and they're just putting it
5 into the pipeline system and putting it into the
6 distribution system and not necessarily keeping it
7 separate, but, you know, the -- that's always been the way
8 the oil industry worked. Is that true or not? Because,
9 you know, this is going to get to the availability
10 question.

11 MSCD AIR POLLUTION SPECIALIST DEAN: Right.
12 So -- this is Nathan Dean again. So currently, a lot of
13 the Renewable Diesel that's produced is getting put
14 into -- mixed in with traditional diesel. I believe it's
15 about like five percent. And it usually gets used in the
16 on-road side, so a lot of this fuel is used in 2010 or
17 newer on-road engines. So what our amendments would be
18 doing is if this fuel were to go into those off-road
19 equipment that's older, it does not have the SCR and DPF
20 controls, you would see that NOx and PM benefit. So
21 currently, you are correct. It is blended in -- generally
22 blended in and used in the --

23 BOARD MEMBER SPERLING: So how would someone get
24 access to this renewable diesel and -- since it's just put
25 into the distribution system and mixed with everything

1 else?

2 MSCD OFF-ROAD IMPLEMENTATION SECTION MANAGER

3 LEVINE: So we are seeing stations that are renewable
4 diesel --

5 BOARD MEMBER SPERLING: Could you speak a little
6 louder?

7 MSCD OFF-ROAD IMPLEMENTATION SECTION MANAGER

8 LEVINE: Sorry. I'm sorry.

9 We are seeing stations that are renewable diesel
10 specific, so they will have R99, R100 from those stations.
11 You can also procure it through your -- through your
12 fueling contracts. I know at the 76 station by my house,
13 there is a renewable diesel pump now. So it is coming
14 online. It is becoming more available. And that's why if
15 in the interim time, if there is a -- a fleet has issues
16 of procuring renewable diesel, we do have that flexibility
17 provision if they're unable to obtain it.

18 BOARD MEMBER SPERLING: Okay. I mean, I'm a
19 little skeptical of this. You know, like what about when
20 you get to remote areas where a lot of this equipment is
21 used? And the question also is if it's available as a
22 stand-alone option, it's always going to be presumably
23 much more expensive, because -- otherwise, you know,
24 there's extra distribution costs putting it in a truck,
25 bringing it to some location. So I think there would be a

1 significant cost premium for these fuels if they're
2 distributed separately.

3 MSCD OFF-ROAD IMPLEMENTATION SECTION MANAGER

4 LEVINE: No, we're not seeing that right now.

5 BOARD MEMBER SPERLING: Yeah.

6 MSCD OFF-ROAD IMPLEMENTATION SECTION MANAGER

7 LEVINE: That's not what we're seeing. I mean, we have
8 data that Caltrans keeps a report of the cost of renewable
9 diesel and conventional diesel and they're at cost parity
10 for their fleets that are using and able to sell on their
11 projects.

12 BOARD MEMBER SPERLING: And is that possibly
13 because so far the renewable diesel is made in small
14 facilities, I believe, and it's not really -- they haven't
15 really geared up in a major way. That part I'm not sure
16 about, but anyway. I guess I'd like to -- you know --
17 okay. So then the second -- the second question has to do
18 with the emission reductions that come with the renewable
19 diesel. But I do have a lot of -- kind of a technical
20 questions, what does weighted mean, weighted between
21 different engines, different fuels, when you talk about
22 the 10 percent and 30 percent reduction.

23 MSCD AIR POLLUTION SPECIALIST DEAN: I don't
24 recall -- this is Nathan again. So I don't recall saying
25 weighted per se. So I know that they -- we have a

1 BOARD MEMBER SPERLING: It says it right in
2 the -- your presentation.

3 MSCD AIR POLLUTION SPECIALIST DEAN: So what I
4 can say is, you know, the study that we relied upon, a
5 CARB study, is that in older technology it showed that 10
6 percent NOx and 30 percent PM reductions in the older
7 engines, specifically when using 100 percent, 99 percent
8 renewable diesel. So I'm not sure specifically the
9 weighted concern. Maybe you can --

10 BOARD MEMBER SPERLING: It's only a -- it's more
11 a question of that if we're going to deal with this
12 availability question and it's going to be available in
13 some place or another, it seems like -- because I think
14 what you said I presume is correct that, you know, you get
15 bigger bang in the older engines. So there might be some
16 reasonable to want to, you know, prioritize that. And it
17 would affect the calculations that are done.

18 But the more important one is that I presume
19 there's going to be a fixed amount of renewable diesel,
20 that this program is not going to stimulate new
21 production. Most of it is coming because of the LCFS.
22 And so the emission benefit, I don't -- it doesn't seem
23 like there's any emission benefits here, because you're
24 just moving the benefits around. In other words, if it's
25 not used in some off-road equipment, it's used, you know,

1 on some truck somewhere. Am I missing something on that?

2 MSCD AIR POLLUTION SPECIALIST DEAN: So that is
3 currently, the fuel would be used in on-road. And the
4 issue there is that in 2010 and newer on-road engines, you
5 do not see that NOx and PM benefit. Because they have SCR
6 and DPF. So without these amendments, it would be use in
7 on-road and we would not see the NOx and PM. But by
8 shifting it into the Tier 4 interim and older engines, we
9 do see that 10 percent NOx and 30 percent PM reduction.

10 EXECUTIVE OFFICER CLIFF: And due to SB 1, all
11 trucks on the road at the end of this year will be 2010 or
12 newer.

13 BOARD MEMBER SPERLING: You know, it just seems
14 like it's a great regulation, but do we need this
15 renewable diesel requirement? It seems like it creates a
16 lot of work for the staff for almost no benefit that I can
17 see -- any marginal benefit. You know, okay, so as Dr.
18 Cliff says, you know, if you look around -- if we really
19 tease the data and look at where is it actually used, is
20 it used in older engines or newer engines, maybe there's
21 some small benefits, but it's going to be pretty tiny.

22 MSCD DIVISION CHIEF VERGIS: Just -- yeah, thanks
23 for the opportunity. Sydney Vergis again. So appreciate
24 the opportunity to respond to that. I would say renewable
25 diesel is a really critical and foundational part of this

1 regulation. Renewable diesel is responsible for 40
2 percent of the NOx benefits and 70 percent of the PM
3 benefits initially. So particularly in those early years,
4 renewable diesel is a really critical underpinning here.

5 You mentioned availability earlier, I'll just
6 mention that there's 900 million gallons of renewable
7 diesel available now, and in the next couple years, we
8 expect even more to be coming online.

9 BOARD MEMBER SPERLING: Yeah. My only point is
10 that, yes, it's just moving the -- you know, the -- you
11 know, the benefits around and it's a -- if it wasn't a
12 benefit here, it would be a benefit somewhere else but --
13 but if that's not a compelling argument, then -- you know,
14 it just seems like a lot of extra work for very little
15 benefit. But if you want to do a lot of more work, Dr.
16 Vergis --

17 MSCD DIVISION CHIEF VERGIS: We would like to get
18 the benefits that were committed to in the SIP, yes.
19 Thank you.

20 CHAIR RANDOLPH: Dr. Pacheco-Werner.

21 BOARD MEMBER PACHECO-WERNER: Yeah, thank you.
22 I'm really excited about this -- those proposed
23 amendments. I do have a question as it comes to -- I know
24 that some of the flexibilities that are in here are around
25 the zero-emission vehicles. But I -- but I'm not sure in

1 terms of the phase-in what the availability is right now.
2 Let's say, for example, for construction equipment and
3 that would be in areas, you know, that they're stationary
4 for a period of time. And they don't have access to
5 electricity, because they're in construction areas. What
6 are the -- what's sort of the technology that's available
7 right now or what are we looking for and are there
8 opportunities that we can think about to talk with our
9 legislature about further funding for more technology to
10 make that happen.

11 Thanks.

12 EXECUTIVE OFFICER CLIFF: This is Steve Cliff.
13 Thank you for that question. For those in the room, there
14 is a bunch of equipment outside. And we'll well get the
15 opportunity to see that -- that equipment and more and
16 more zero emissions is coming online. This regulation
17 itself will incentivize more zero-emissions equipment, but
18 does not mandate the turnover to zero emissions. I would
19 venture to say stay tuned. I'm sure that we will get
20 around to that some day. But this regulation is really
21 about getting rid of the dirtiest, oldest equipment, even
22 though we are very excited about the zero-emission options
23 that are coming online.

24 BOARD MEMBER PACHECO-WERNER: I'm sorry, I was
25 just referring to the slide where it says the exceptions.

1 I guess slide 13. So that -- so the exception is for
2 those that are -- that already have a zero-emission fleet,
3 but how are people getting to that or is it more about
4 just that in this regulation we're just focused on making
5 sure they're using this -- the right fuel, and -- you
6 know, I'm just trying to see how we're, you know, sort
7 of pro -- is this meant to just be the exception or are we
8 using it as sort of like incentivizing to get to that
9 place?

10 MSCD AIR POLLUTION SPECIALIST DEAN: Hello. This
11 is Nathan Dean again. So this exemption on slide 13 it
12 was for the renewable diesel requirement. And so
13 exempting the fleets that are zero-emission is really
14 trying to incentivize those fleets that adopted zero
15 emission. And the other idea here is that renewable
16 diesel wouldn't have -- see much of a benefit in a fleet
17 that has Tier 4 final and zero emission. So that's part
18 of why we had the exemption. And really the critical part
19 is that, you know, if a fleet is fully zero emission, we
20 would want to be rewarding those types of fleets.

21 BOARD MEMBER PACHECO-WERNER: Right. So like the
22 vehicle-to-vehicle thing that you have on slide 15. I'm
23 just trying to see like how people would act -- like is --
24 is this voluntary emission flexibility, is that actually
25 something that's doable right now for those types of like

1 construction equipment.

2 MSCD AIR POLLUTION SPECIALIST DEAN: Yeah. So I
3 think the vehicle-to-vehicle one is definitely something
4 that can happen now. As Dr. Cliff was mentioning, you
5 know, there's equipment -- you know, part of the funding
6 plan that's available for purchase. And we think this
7 vehicle-to-vehicle would be perfect for that situation.
8 So we do think that there are certain equipment categories
9 and certain horsepower ranges where zero emission is out
10 there now. And I think that, you know, we see it in very
11 targeted areas, which is why we're really pushing for the
12 cleaner combustion in this regulation. But we do see in
13 the low horsepower and certain equipment types that zero
14 emission is available today.

15 CHAIR RANDOLPH: Okay. Board Member De La Torre.

16 BOARD MEMBER DE LA TORRE: Hello. I just wanted
17 to make a comment in terms of the process and how we got
18 her today, which is a couple of things. One, these
19 changes were telegraphed and made clear in the 2020 Mobile
20 Source Strategy. So the fleets were well aware that we
21 were looking to do this. And, in fact, the process that
22 led to today has been in development for 18 months. So
23 there has been a long lead time in terms of the
24 communication, in terms of the involvement. I understand
25 that folks aren't necessarily happy with this product --

1 this regulation as it's being put before us, but in terms
2 of the timing, there is no surprise here. We're almost at
3 the end of 2022 and this goes back to 2020. So just
4 wanted to clarify that. And I'm very supportive.

5 Thank you.

6 CHAIR RANDOLPH: Thank you.

7 Dr. Balmes.

8 BOARD MEMBER BALMES: Thank you, Chair Randolph.
9 As the public health member of the Board, I feel it's just
10 important to emphasize the importance of this rule as is
11 shown on slide 20 of the staff presentation. The
12 estimated lifetime health benefits are considerable. You
13 know, hundreds of premature deaths, hospitalizations and
14 emergency room visits for asthma. And I think, if
15 anything, that's an underestimate. So I just wanted to
16 emphasize, I think this regulation is needed to protect
17 public health.

18 Thank you.

19 CHAIR RANDOLPH: I had a question for staff. I
20 think most of my other questions have already been asked
21 by my colleagues, but I did have a question about the
22 comment about the renewable diesel being an equipment
23 requirement versus a purchasing requirement. So can you
24 kind of explain that concern and what your thoughts are?

25 MSCD AIR POLLUTION SPECIALIST DEAN: This is

1 nathan Dean again. So the intent with those provisions
2 for record keeping was to ensure that the renewable diesel
3 is being used by the fleets. So our intent is in line
4 with CalCIMA's comment and that it should be, you know,
5 ensuring that fleets are using renewable diesel. To the
6 extent that our language is unclear, we want to make sure
7 that that's clarified in 15-day changes potentially. But
8 our intent is matching with the letter that we received
9 and the comments we heard from CalCIMA.

10 CHAIR RANDOLPH: Okay. Thank you. All right.
11 We have more Board member comments. I'm going to go with
12 Board Member Hurt and then Board Member Kracov.

13 BOARD MEMBER HURT: Thank you, Chair.

14 I think similar to Board Member Balmes, the
15 health benefits are really persuasive to me. I am -- I
16 really appreciated how clearly the benefits were laid out
17 by the staff report. And I especially appreciated I think
18 it's Figure 10 of the statewide emissions of NOx by the
19 mobile sector, the change that would occur in that space.
20 It's important that if we all want to get our regions into
21 acceptable compliance, that measures like this one need to
22 be passed. And it's not only benefiting local residents,
23 but the operators alike with the reduction in NOx and PM.

24 I did have a question and I'm hoping staff could
25 just explain how this work -- this rule will work with the

1 AB 617 community plans and measures that are being created
2 in communities all over California. I think it's
3 important to talk about how these rules are supporting all
4 the work that's happening in these communities and how
5 important it is to them that the regulations support the
6 work that they're doing.

7 MSCD AIR POLLUTION SPECIALIST DEAN: So I can
8 take this one too. So as Sydney had mentioned earlier, 10
9 of the AB 617 communities identified off-road diesel as a
10 piece of interesting sector for reductions. So we are
11 open to working with, you know, the AB 617 communities.
12 During the development process, we also posted several
13 blog posts on the environmental justice webpage and
14 invited community members to our public work groups
15 through our gov deliveries.

16 So we -- during development we're open and we
17 remain open to working with the communities to make sure
18 that our amendments are in line with the health benefits
19 that -- for those communities.

20 BOARD MEMBER HURT: Thank you. I definitely had
21 questions around availability and the cold weather
22 impacts. And I think they've adequately been responded by
23 the staff. I think the cost to not make amendments to
24 this regulation is our health and our planet. And so we
25 need to move forward in all the different sectors in the

1 many different ways for cleaner air.

2 Similar to Vice Chair Berg, I did have concerns
3 with the State's goals around housing and infrastructure,
4 just our construction goals. But I think -- and I'm going
5 to ask now another question from the staff. If we are to
6 find that there's a lot of equipment that's taken out of
7 availability, it's really impacting the transition in a
8 way that's hindering infrastructure, improvements in
9 housing, how -- how would we respond in this amendment or
10 in this rule in the future or how could we?

11 MSCD OFF-ROAD IMPLEMENTATION SECTION MANAGER
12 LEVINE: So there actually is a secondary flexibility
13 provision in the regulation that allows for if there's a
14 lack of availability of Tier 4 equipment, just more in
15 general, like if it's not available. And we can look at
16 that language and see if the concerns that you bring up
17 are really covered under those provisions.

18 BOARD MEMBER HURT: Okay. Thank you. I'm
19 supportive of this rule and will be voting in favor of it.

20 Thank you.

21 CHAIR RANDOLPH: Vice Chair Berg.

22 VICE CHAIR BERG: Thank you, Chair Randolph. I
23 apologize that I'm circling back, but I did have another
24 question. And that was on one of the testimony, there was
25 a concern that these Tier 0, 1, and 2s can be sold into

1 other industries that are not regulated. Could staff
2 comment on that, please, and I'm thinking specifically the
3 ag industry.

4 EXECUTIVE OFFICER CLIFF: Vice Chair Berg, this
5 is Steve. I think it is true that they could be sold into
6 the ag industry. However, we have a lot of programs that
7 are encouraging ag to turnover their fleets to cleaner
8 equipment as well. And we have also been pretty clear
9 that as part of our SIP commitments, we need the ag
10 industry to continue to make progress there. And
11 incentives have been the primary way that we've tried to
12 continue that progress.

13 And if we're not able to continue to make
14 progress, then we will need to evaluate whether other
15 options for getting those reductions are necessary. We're
16 not really seeing that this is a problem so far. And
17 that's in large part because the benefits of the newer
18 equipment are significant. And so the industry tends to
19 be moving towards the cleaner equipment, especially in the
20 areas where non-attainment is observed and we're seeing
21 that that industry, like in the Central Valley, the ag
22 industry is continuing to move towards cleaner equipment
23 in response to those incentive programs.

24 VICE CHAIR BERG: Well, and I do appreciate that
25 comment. I would think that several of those 10

1 communities on 617 also might not know the nuances between
2 off-road and ag, and are concerned with ag equipment as
3 much as they're concerned rightfully about the off-road
4 rule.

5 Thank you, Chair Randolph. I, again -- oh, I
6 would like to make one other comment. My -- I -- I so
7 respect my esteemed colleague, Hector De La Torre, but I
8 think that when we live in this policy world versus being
9 in the business world of medium and small businesses,
10 these are not companies that read the Mobile Source Plan.
11 And also, they're used to be, in my 18 years of
12 experience, a public process where staff would have this
13 18 months, but businesses weren't to presume that that
14 meant we would give them 12 months notice.

15 So if we truly are going to -- this is the new
16 day of acceleration, then you're right, we need to let
17 businesses know that this is the new day of acceleration.
18 We need these. I agree we need Tier 0s, 1s, and 2s off --
19 out of the inventory. I couldn't agree more. I know how
20 dirty they are. They're also expensive to maintain. And
21 so fleets wouldn't keep them in their fleets if they
22 weren't hard to replace.

23 And so I just again feel that the 12 months is
24 not enough time on any regulation that is of this
25 magnitude, and so it is very important. I get it for the

1 SIP, and that's why I'm so conflicted between the two
2 sources. And I really appreciate Board Member Hurt for
3 summarizing much more eloquently -- I will say that I'll
4 blame it on my head cold that I wasn't very articulate.
5 And I really thank you for being articulate on the concern
6 about construction, specifically on very important social
7 concerns, and quite frankly our transitions that we're
8 going to really count on our construction industry to help
9 us make all of our transitions successful.

10 Thank you, Chair.

11 CHAIR RANDOLPH: All right. Thank you.

12 Board Member Takvorian.

13 BOARD MEMBER TAKVORIAN: Thank you, Chair. I
14 don't have much to say. As I just said to my colleague
15 here, everyone has really answered -- asked the questions
16 and I really appreciate staff's good work on this -- on
17 this -- on these amendments and on your responses to us
18 today.

19 I'm compelled by the feasibility of this rule and
20 the availability of the equipment, the health benefits to
21 both the public and workers, and the near-term benefits as
22 well as the enormous difference between the Tier 4s and
23 the Tier 0s and 1s. I mean 80 times is so, so dramatic.
24 I don't think we see that very often. And to have the
25 number of -- the amount of benefits in the first five

1 years as others have pointed out I think is really
2 compelling.

3 I do appreciate the inclusion of the 617
4 communities, as I know that that was included in many
5 CERPs. And folks are struggling with how to make that
6 come to life in their local communities and they really
7 need CARB's leadership I believe in order to make that
8 happen.

9 So I'm ready to move approval of the proposed
10 amendments, if we're ready for that Chair.

11 CHAIR RANDOLPH: Okay.

12 BOARD MEMBER FLOREZ: I will second that. Dean
13 Florez.

14 CHAIR RANDOLPH: Who -- where is that voice
15 coming from?

16 (Laughter).

17 BOARD MEMBER BALMES: Senator Florez.

18 CHAIR RANDOLPH: Senator Florez, thank you so
19 much. I couldn't see you on my screen here.

20 BOARD MEMBER FLOREZ: No worries. And I'm saving
21 a comment as well, because Diane pretty much summarized
22 it, so I just -- I'll second the motion.

23 CHAIR RANDOLPH: Okay. Great. Yeah, I don't
24 have much to add. I think the only thing I would add
25 briefly before we vote is I do share Dr. Sperling's

1 concern just about the work involved in the exemptions.
2 And I would encourage staff, and I'm sure you will do this
3 anyway, to sort of think about the ways to simplify the RD
4 exemption process. If you, you know, have some sort of
5 regional exemptions or something, whatever makes the most
6 sense from an implementation step, I think having everyone
7 come in specifically for exemptions might be challenging,
8 but if there's a way you can batch different issues, that
9 might be helpful.

10 Okay. I think that's it. We have a motion and a
11 second. And I will -- is there any further discussion?

12 I will ask Clerk to please call the roll.

13 BOARD CLERK GARCIA: Dr. Balmes?

14 BOARD MEMBER BALMES: Yes.

15 BOARD CLERK GARCIA: Mr. De La Torre?

16 BOARD MEMBER DE LA TORRE: Yes.

17 BOARD CLERK GARCIA: Mr. Eisenhut?

18 BOARD MEMBER EISENHUT: Yes

19 BOARD CLERK GARCIA: Senator Florez?

20 BOARD MEMBER FLOREZ: Florez, aye.

21 BOARD CLERK GARCIA: Ms. Hurt?

22 BOARD MEMBER HURT: Aye.

23 BOARD CLERK GARCIA: Mr. Kracov?

24 BOARD MEMBER KRACOV: Yes.

25 BOARD CLERK GARCIA: Dr. Pacheco-Werner?

1 BOARD MEMBER PACHECO-WERNER: Yes.

2 BOARD CLERK GARCIA: Mrs. Riordan?

3 BOARD MEMBER RIORDAN: Aye.

4 BOARD CLERK GARCIA: Supervisor Serna?

5 BOARD MEMBER SERNA: Aye.

6 BOARD CLERK GARCIA: Professor Sperling?

7 BOARD MEMBER SPERLING: Aye.

8 BOARD CLERK GARCIA: Ms. Takvorian?

9 BOARD MEMBER TAKVORIAN: Aye.

10 BOARD CLERK GARCIA: Supervisor Vargas?

11 Vice Chair Berg?

12 VICE CHAIR BERG: Berg abstains.

13 BOARD CLERK GARCIA: Chair Randolph?

14 CHAIR RANDOLPH: Yes.

15 BOARD CLERK GARCIA: Madam Chair, the motion
16 passes.

17 CHAIR RANDOLPH: All right. Thank you.

18 Okay. The last item on today's agenda is Item
19 number 22-15-5, Proposed Fiscal Year 2022-23 Funding Plan
20 for Clean Transportation Incentives accompanied by
21 proposed Carl Moyer Program changes. If you are here with
22 us in the room and wish to speak on this item, please fill
23 out a request-to-speak card as soon as possible and submit
24 it to a Board assistant. If you are joining us remotely
25 and wish to comment on the item, please click the raise

1 hand button or dial star nine now. We call on in-person
2 and remote commenters when we get to the public comment
3 portion of this item.

4 The Clean Transportation Incentives Funding Plan
5 is a critical part of CARB's portfolio of incentives that
6 complement our planning and regulatory program to reduce
7 emissions and increase access to clean transportation.
8 And in addition to the clean transportation incentives,
9 this item also includes a specific change to the Carl
10 Moyer Program.

11 Our clean transportation incentives continue to
12 support an equitable transition to zero-emission cars as
13 well as to accelerate the commercialization of
14 zero-emission technologies for trucks and buses. They
15 support small owner-operator truck fleets and they improve
16 access to clean mobility options in communities hardest
17 hit by pollution.

18 This year's investments present -- represent an
19 unprecedented level of funding from the Legislature to
20 support electrification and transformation of the
21 transportation sector. They will drive accelerated
22 deployment of ZEVs and help support and equitable
23 transition to a clean transportation future. The funding
24 plan builds on the investments the State has made over the
25 past decade to support wide-scale employment of ZEVs to

1 meet the targets set forth in Governor Newsom's Executive
2 Order.

3 With zero-emission technologies now widely
4 available, this is the opportune time for California to
5 double down on supporting equitable access to
6 zero-emission options for priority populations. Building
7 on last year's investments staff proposes to commit at
8 least 60 percent of low carbon transportation investments
9 to benefit priority populations, significantly higher than
10 the 35 percent set by the Legislature.

11 Given my focus on promoting equity in all aspects
12 of CARB's work, I'm pleased that significant funding is
13 allocated to transportation equity projects that partner
14 with communities to provide a broader range of
15 transportation choices, help people get around without
16 relying on cars, and reducing vehicle miles traveled.

17 We know we need a system level change of the
18 transportation sector to clean the air, protect public
19 health, and combat climate change. And this plan supports
20 those goals by reinforcing the positive steps that local
21 transit agencies are taking to promote more walkable,
22 bikeable, and transit rich communities.

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

24 EXECUTIVE OFFICER CLIFF: Thank you, Chair
25 Randolph. As you just heard, incentive programs are a

1 critical part of CARBs comprehensive strategy to
2 accelerate the introduction of the cleanest technologies,
3 complementing our regulatory programs. These incentives
4 provide important steps to accelerate the transformation
5 of the transportation sector to zero tailpipe emissions
6 powered by the lowest carbon energy sources.

7 This year, the funding plan includes almost \$3
8 billion in incentives, our largest plan yet. These
9 investments are designed to scale the ZEV market towards
10 sustainability in the key vehicle segments ready for
11 significant ramp up in commercial development. They
12 continue to expand the focus on equity by increasing
13 access to ZEVs for priority populations and providing
14 emission reductions in the communities most impacted by
15 harmful air pollution. They also provide critical support
16 for communities to redesign and strengthen transportation
17 planning to give people more and better choices not just
18 private cars.

19 The proposed investments continue to build on
20 commitments from previous budget cycles, while taking
21 steps to shift from Broad purchase incentives to more
22 targeted strategies to support lower income consumers and
23 small fleets facing the greatest challenges. This comes
24 at a great time, with our Advanced Clean Fleets rulemaking
25 underway, this funding will provide critical aid for those

1 smaller fleets and their transition to zero and it further
2 supports significant investments in small off-road engines
3 and commercial harbor craft, also affected by recent
4 regulatory actions.

5 We have coordinated closely with the California
6 Energy Commission, California State Transportation Agency,
7 and the Governor's Office of Business and Economic
8 Development on the development of this plan. And I want
9 thank Hannon Rasool of the Energy Commission, and Tyson
10 Eckerle of the Governor's Office of Business and Economic
11 Development for joining us today to support the proposed
12 funding plan.

13 Finally, the funding plan is a key portion of
14 CARB's broader incentive portfolio. And today, we propose
15 changes to one of the other incentive programs within that
16 portfolio, specifically targeted changes to the Carl Moyer
17 Program to address cost effectiveness limits for inflation
18 and increase its off-road zero-emission cost effectiveness
19 limit to mere off-road zero emission cost effectiveness
20 limits.

21 I will now ask Graciela Garcia of the Mobile
22 Source Control Division to begin the staff presentation.

23 Graciela.

24 (Thereupon a slide presentation).

25 MSCD AIR POLLUTION SPECIALIST GARCIA: Thank you,

1 Dr. Cliff.

2 Good morning, Chair Randolph and members of the
3 Board. Today, we will be presenting the proposed fiscal
4 year 2022-23 funding plan for clean transportation
5 incentives, accompanied by proposed Carl Moyer Program
6 changes.

7 --o0o--

8 MSCD AIR POLLUTION SPECIALIST GARCIA:

9 Specifically, today's presentation will cover two
10 topics. After some short background, we will review
11 staff's recommendations for the funding plan for clean
12 transportation incentives our primary topic. Then we will
13 discuss proposed revisions to the Carl Moyer Program.
14 Both of these incentive programs are related and help
15 achieve common air quality, climate change, and equity
16 goals, and they're being presented together today, so that
17 we can make the critical changes needed to quickly target
18 these funds in communities that need them the most.

19 --o0o--

20 MSCD AIR POLLUTION SPECIALIST GARCIA: To achieve
21 its numerous climate change, air quality, ZEV deployment,
22 and petroleum reduction goals, the State has adopted an
23 aggressive multi-pronged strategy that uses incentives to
24 complement regulatory approaches.

25 Additionally, incentives will play a pivotal role

1 in accelerating the transition of fleets to zero-emission
2 in line with Governor Newsom's most recent Executive
3 Order. We have also given increasing attention to the
4 role our investments play in promoting equity and racial
5 justice.

6 Our incentives also act as a stimulus and support
7 economic recovery. They have helped draw manufacturers of
8 clean technology to California to open or expand
9 operations promoting economic growth and job creation
10 within the State and making zero-emission vehicles and
11 their components the state's largest export.

12 We have constantly reevaluated our projects and
13 incorporated strategic changes to build on the successes
14 of past investments and incorporate the lessons we have
15 learned. This year, we are continuing to streamline and
16 enhance our data collection, transparency, and evaluation
17 strategies.

18 Next, I will discuss the focus of today's
19 presentation and how it fits within CARB's broader
20 incentives portfolio.

21 --o0o--

22 MSCD AIR POLLUTION SPECIALIST GARCIA: Today's
23 presentation is centered around the Low Carbon
24 Transportation Program, the Air Quality Improvement
25 Program, and the Carl Moyer Program. The incentive

1 programs we are discussing today are a part of the broader
2 portfolio of funding that CARB administers to improve air
3 quality, enhance community protection, and reduce
4 greenhouse gas emissions.

5 CARB strives to maintain a balanced portfolio of
6 available investments to meet the State's air quality and
7 climate goals. While the Community Air Protection
8 Program, FARMER, and the VW Mitigation Trust are not
9 directly tied to today's presentation, we will continue to
10 closely coordinate with these programs to make sure the
11 investments are complementary.

12 And outside of CARB, other federal, State, and
13 local agencies have complementary funding sources as well.
14 We also coordinate regularly with our sister agencies on
15 these investment programs.

16 --o0o--

17 MSCD AIR POLLUTION SPECIALIST GARCIA: And with
18 that, I will move into our first and largest topic, the
19 funding plan for clean transportation incentives.

20 --o0o--

21 MSCD AIR POLLUTION SPECIALIST GARCIA: The
22 development of the fiscal year 2022 -- 2022-23 funding
23 plan for clean transportation incentives was a
24 collaboration among staff across the California Air
25 Resources Board with further feedback and enhancements

1 provided by multiple key external partners and
2 stakeholders, including those listed on this slide and
3 more.

4 Staff, at the California Air Resources Board,
5 would like to acknowledge and thank each of these entities
6 for their valuable contribution and continued feedback
7 that shape this year's funding plan. CARB staff is
8 grateful for everyone who has participated during our
9 public process and beyond.

10 --o0o--

11 MSCD AIR POLLUTION SPECIALIST GARCIA: To develop
12 this plan, staff held a robust public process beginning
13 earlier this year that included: three public funding plan
14 development workshops; 12 public work group meetings;
15 several targeted meetings with African American community
16 leaders, a tribal government representative, and labor
17 unions; one community listening session; and numerous
18 one-on-one discussions with interested stakeholders and
19 community advocates.

20 Additionally, three public work group meetings
21 were held as a part of the recently concluded Incentives
22 Program Advisory Group, or IPAG, the group focused on
23 providing greater support for small fleets and small
24 businesses statewide and further promote program
25 participation by increasing equitable access to

1 zero-emission technologies for heavy-duty vehicles.

2 While these meetings focused on the Carl Moyer
3 Program, the stakeholder feedback and concepts discussed
4 were also incorporated into the funding plan. We would
5 like to thank Chair Randolph, Vice Chair Berg, and Board
6 members Hurt and Kracov, and the Carl Moyer Program staff
7 for their leadership and participation in this process.

8 --o0o--

9 MSCD AIR POLLUTION SPECIALIST GARCIA: The
10 proposals we'll present today continue our increased focus
11 on outreach and community engagement and introduce many
12 new policies and efforts to further center incentives on
13 communities that need them the most, including priority
14 populations, and small fleets, and owner-operators. These
15 are complemented by dedicated funds for outreach and we
16 will continue to strengthen our community outreach and
17 capacity building efforts in the coming years.

18 These proposals also address both short-term and
19 long-term needs by focusing limited State dollars in ways
20 that drives ZEV technology development and deployment, but
21 also give local air districts greater flexibility to act
22 on immediate and tailored issues, such as meeting federal
23 air quality goals and addressing local community air
24 protection concerns.

25 The proposal also takes a step back looking

1 In addition to the money covered in this year's
2 funding plan, CARB will receive another 1.5 billion over
3 the next three years as a part of the ZEV package subject
4 to further appropriation, which will also allow CARB to
5 expand upon our key efforts in future funding plans and
6 continue to focus funding in areas of the state that need
7 them the most.

8 --o0o--

9 MSCD AIR POLLUTION SPECIALIST GARCIA: This slide
10 demonstrates how priorities have evolved over the last
11 decade and has increasingly focused on priority
12 populations. Early on, many of the programs funded under
13 low carbon transportation were focused on seeding and
14 growing the ZEV market across both the light- and
15 heavy-duty sectors.

16 In fiscal year 2023-14, there were no funds
17 allocated to CARB to specifically benefit priority
18 populations. And just a few years later in fiscal year
19 2017-18, approximately 50 percent of funding was allocated
20 to benefit priority populations and our projects began to
21 shift in design to address the needs of these populations
22 better.

23 In the current fiscal year, staff estimates over
24 70 percent of the 2.6 billion appropriated is expected to
25 benefit priority populations. And as you'll see in the

1 coming slides, many changes are proposed to help
2 underscore how important an equity focus for these
3 projects has become.

4 --o0o--

5 MSCD AIR POLLUTION SPECIALIST GARCIA: It is also
6 important to note that throughout this year's public
7 process, community members have asked staff to share
8 demographic data for individuals that have participated in
9 CARB's clean transportation incentive programs,
10 particularly from the light-duty purchase incentive and
11 mobility projects. Currently, not every project collects
12 demographic data. And those that have, there is no
13 consistency across the methods in which the data is
14 collected.

15 Where data is available, staff has included it in
16 the funding plan and staff are also working to expand and
17 standardize data collection for all clean transportation
18 investments within the next year. In addition, staff is
19 exploring ways to ensure the data remains publicly
20 available and accessible.

21 --o0o--

22 MSCD AIR POLLUTION SPECIALIST GARCIA: Before
23 jumping into to key proposals outlined in today's
24 presentation, I'd like to provide an overview of project
25 category allocations for both light- and heavy-duty and

1 off-road equipment. This slide slows the proposed
2 allocations by project category and funding source based
3 on what the Legislature has appropriated for fiscal year
4 2022-23. It is important to note that much of this
5 funding was appropriated in the State budget specifically
6 to several projects within these categories. Staff will
7 present the detailed proposed project-specific allocations
8 and proposals in the next section of today's presentation.

9 --o0o--

10 MSCD AIR POLLUTION SPECIALIST GARCIA: And now
11 for our clean transportation and light-duty equity
12 investments. The overarching goals of this category
13 projects include: supporting the Governor's Executive
14 Order N-79-20 that calls on the State to accelerate the
15 transformation of California's fleet to zero-emission;
16 supporting the Advanced Clean Cars II regulation;
17 providing zero-emission and clean mobility options
18 tailored to priority population needs; and expanding
19 transportation choices and reducing vehicle miles
20 traveled.

21 With these goals in mind, I will highlight some
22 key areas where CARB's light-duty vehicle purchase
23 incentive programs have been successful in supporting
24 healthy communities, clean air goals, and growing the
25 green economy in California.

1 statewide expansion. Next, staff recommends allocating 66
2 million to financing assistance, one million to Access
3 Clean California, and three million to the electric
4 bicycles incentive project.

5 In addition, staff are proposing to allocate one
6 million to support the California Integrated Travel
7 Project, a newer effort to develop a streamlined payment
8 strategy for transit and electric vehicle charging.

9 And lastly, 10 million was appropriated for the
10 Zero-Emission Assurance Project established by AB 193 to
11 provide battery replacements or warranties to low-income
12 electric vehicle buyers. Staff are also recommending
13 several changes across all the vehicle purchase incentive
14 programs, which I'll discuss next.

15 --o0o--

16 MSCD AIR POLLUTION SPECIALIST GARCIA: Staff's
17 proposal takes a step towards continued alignment across
18 all three vehicle purchase incentive programs, the Clean
19 Vehicle Rebate Project, or CVRP, Clean Cars 4 All, and
20 financing assistance. After considering feedback from
21 community groups and the public, that incentives are not
22 enough to support low-income car buyers in the current
23 market, staff proposes a significant increase across new
24 and used light-duty purchase incentives.

25 To illustrate, eligible car buyers can currently

1 83,000 a year for a family of four.

2 In an effort to minimize overlap, this year's
3 proposal also allows air district run Clean Cars 4 All
4 programs to expand coverage to all areas of their
5 respective jurisdictions, which positions the statewide
6 Clean Cars 4 All Program to support all non-air district
7 run territories. The proposal also includes of charging
8 incentives for low-income CVRP applicants and an increase
9 in charging incentive amounts for financing assistance.

10 These changes will support at least a year of
11 charging for a low-income car buyer charging exclusively
12 at public charging stations. Eligible applicants would be
13 able to stack these charging incentives, which would boost
14 support to about two years of public charger use for a
15 low-income car buyer.

16 Next, I will cover air district allocations for
17 Clean Cars 4 All.

18 --o0o--

19 MSCD AIR POLLUTION SPECIALIST GARCIA: Per
20 legislative direction, staff will allocate 125 million to
21 the statewide program and 80 million to the District
22 programs. Staff is also proposing an additional 40
23 million to the District run programs for a total
24 allocation of 120 million. This record investment in the
25 district programs will enable the districts to expand

1 their programs to all low income residents of their
2 respective jurisdictions.

3 In addition, staff determined district
4 allocations by developing an allocation formula that is
5 intended to ensure consistent predictable funding and use
6 of database metrics to determine program demand and future
7 growth. Using the formula, the proposed district
8 allocations are listed on the slide. This covers our
9 light-duty vehicle purchase incentives. And I will now
10 provide an overview of our clean mobility metrics and
11 proposed allocations.

12 --o0o--

13 MSCD AIR POLLUTION SPECIALIST GARCIA: CARB has
14 been focused on developing metrics for success across
15 mobility investments as a critical element of program
16 evaluation measuring equity outcomes, increasing
17 transparency through data reporting, and sharing lessons
18 learned across programs.

19 Similar to our vehicle purchase incentives, these
20 metrics include supporting healthy communities, State air
21 quality goals, and increasing access to affordable
22 transportation and mobility options and growing the green
23 economy. To date, CARB's clean mobility investments have
24 reduced over 2.7 million in net fossil fuel use, saved
25 over 37 million in travel costs, and supported over 1,100

1 This funding proposal supports clean mobility
2 investments in the most impacted communities, which expand
3 options available and meet their unique needs while
4 providing needed vehicle miles traveled reductions to
5 promote more sustainable transportation systems.

6 That concludes the clean transportation and
7 light-duty equity investments portion of the presentation.
8 I will now move into our largest funding category,
9 heavy-duty and off-road equipment investments.

10 --o0o--

11 MSCD AIR POLLUTION SPECIALIST GARCIA: Overall,
12 our heavy-duty and off-road equipment investments strive
13 to continue and expand support for small fleets and
14 disadvantaged communities, expand support for financial
15 assistance and non-financial incentives for ZEVs per SB
16 372, ramp up efforts to transition heavy-duty and off-road
17 equipment to zero emission, and continue to support
18 multiple regulatory efforts.

19 --o0o--

20 MSCD AIR POLLUTION SPECIALIST GARCIA: Our
21 heavy-duty investments also play an important role in
22 supporting healthy communities, supporting technology
23 evolution, and growing the green economy. These programs
24 have helped fuel demand for zero-emission technologies and
25 have spurred substantial growth in the number and types of

1 legislative direction to increase benefits for small
2 fleets, small businesses, and disadvantaged communities,
3 strengthen our focus on equity, and expand the market for
4 zero-emission vehicles.

5 To support early adoption of zero-emission
6 vehicles, this proposal would allow all fleets to continue
7 to access HVIP incentives in 2023, and would introduce
8 several new provisions to support small fleets including
9 tiered voucher amounts, a substantial reserve of funding
10 to ensure small fleets and public agencies have continuous
11 access to incentive funding, and a new bulk purchase
12 requirement for large fleets that is designed to leverage
13 more private capital and encourage manufacturers to grow
14 assembly lines and reach economies of scale.

15 These provisions delay the introduction of the
16 fleets size limits until 2024, aligning with the proposed
17 Advanced Clean Fleets requirements. Additionally, this
18 year staff is proposing to continued set-asides for
19 drayage trucks, transit bases, and school buses within
20 HVIP that were introduced last year. Staff also plans to
21 add additional funding to the Innovate Small e-Fleets
22 Pilot, which supports our SB 372 goals. With this
23 additional funding, staff will expand support for the
24 smallest fleets in the state while incorporating lessons
25 learned from its launch this year.

1 --o0o--

2 MSCD AIR POLLUTION SPECIALIST GARCIA: This
3 year's funding plans to take significant steps to refocus
4 HVIP on small fleets, while still providing large fleets
5 with incentives to transition to zero-emission prior to
6 regulatory deadlines. Staff expects that the proposal
7 would allow the program to meet demand over the next year
8 and deploy over 400 additional zero-emission trucks or
9 buses. This, combined with requirements for the largest
10 fleets in the state to deploy vehicles in disadvantaged
11 communities, will help reduce harmful emissions in those
12 communities.

13 Finally, this proposal takes additional steps to
14 help support the smallest fleets in the State by raising
15 the incentive amounts for fleets with 10 or fewer vehicles
16 and ensuring that public agencies and small fleets have
17 continuous access to HVIP incentives, so that they can be
18 confident that when they're ready to purchase a
19 zero-emission vehicle funding will be available for them.

20 Next, I will cover our off-road equipment
21 investments.

22 --o0o--

23 MSCD AIR POLLUTION SPECIALIST GARCIA: The Clean
24 Off-Road Equipment Voucher Incentive Project, or CORE, has
25 seen incredible growth over the past few years. On the

1 freight side, CORE has more than doubled the number of
2 participating manufacturers and dealers and has tripled
3 the number of eligible pieces of equipment. Last year,
4 CORE expanded to include additional equipment types such
5 as agricultural equipment, commercial harbor craft,
6 switcher locomotives, and professional landscaping
7 equipment.

8 Many categories of off-road equipment have seen
9 high demand. The construction equipment category,
10 terminal tractors, and transportation refrigeration units
11 were all quickly fully subscribed. And after extensive
12 outreach efforts, the CORE zero-emission professional
13 landscaping category opened for voucher requests on
14 November 7th of this year.

15 Following stakeholder feedback, staff is
16 proposing to increase the maximum voucher amount for
17 several types of equipment that face higher incremental
18 costs and are new to the market. Staff continues to
19 develop strategies to support small businesses and
20 prioritize the deployment of zero-emission off-road
21 equipment in disadvantaged communities.

22 And lastly, this year, staff proposes to launch a
23 new category of projects within our portfolio of
24 demonstration and pilot projects, which I will discuss
25 next.

1 MSCD AIR POLLUTION SPECIALIST GARCIA: Consistent
2 with previous years, we are proposing several contingency
3 measures to help keep projects running smoothly and
4 without interruptions. These contingencies are comparable
5 to what we have included in past funding plans.
6 Specifically, staff is requesting that the Board grant the
7 Executive Officer authority to allocate a portion of
8 future year's funds to first-come first-served projects
9 and to allocate funds from next year's budget once
10 approved to the current fiscal year in the event that
11 funding runs out.

12 We will still come back to the Board next year
13 after a full public process to allocate the majority of
14 any future funding. Additionally, staff will utilize the
15 transparent public work group process to help guide any
16 adding or scaling back of funding levels and making
17 technical or administrative changes.

18 That covers the highlights of the funding plan.
19 Next, I will cover the targeted changes proposed to the
20 Carl Moyer Program guidelines.

21 --o0o--

22 MSCD AIR POLLUTION SPECIALIST GARCIA: As you may
23 know, the Moyer Program is a statewide, air district
24 implemented, emission reduction program which funds
25 cleaner than required heavy-duty vehicles and equipment in

1 multiple vehicle and equipment categories. Moyer projects
2 can include on-road heavy-duty vehicles, locomotives,
3 marine vessels, and off-road agricultural and construction
4 equipment. Participating air districts must meet CARB's
5 guideline requirements at a minimum, but retain the
6 authority to consider additional criteria in order to
7 address local concerns and air quality objectives. In
8 today's proposal, staff proposes revisions to raise its
9 cost effectiveness for optional zero-emission technology
10 in off-road vehicle categories.

11 --o0o--

12 MSCD AIR POLLUTION SPECIALIST GARCIA: Last year,
13 the Board approved similar changes for on-road vehicles as
14 a part of our effort to better support zero-emission
15 vehicles. Consistent with that approach, staff are
16 proposing to increase the cost effectiveness limit for
17 off-road zero-emission technologies to an equivalent level
18 when adjusted for inflation. The proposed increase will
19 support deployment of zero-emission technologies,
20 regulatory efforts, and give the air districts the option
21 to help build a stronger market for zero-emission
22 technology in the off-road sector including CORE.

23 Staff also proposes to update the existing cost
24 effectiveness limits for other categories to account for
25 increases due to inflation. And lastly, CARB staff plan

1 to continue to work with stakeholders and air districts to
2 develop a broader set of amendments to the off-road
3 chapters of the Carl Moyer Program to address recent
4 regulatory updates for marine, locomotive, and off-road
5 equipment.

6 --o0o--

7 MSCD AIR POLLUTION SPECIALIST GARCIA: And with
8 that, I will move into our conclusion and recommendation.

9 --o0o--

10 MSCD AIR POLLUTION SPECIALIST GARCIA: The
11 proposals presented today support the State's air quality,
12 climate, and equity goals, and also help to build
13 significant momentum to expand the market for clean
14 vehicles and clean transportation options in an equitable
15 manner. In conclusion, staff recommend approving the
16 proposed funding plan and Carl Moyer Program changes.

17 --o0o--

18 MSCD AIR POLLUTION SPECIALIST GARCIA: Thank you
19 for your attention today. Next, I would like to introduce
20 Tyson Eckerle from the Governor's Office of Business and
21 Economic Development to say a few remarks.

22 TYSON ECKERLE: Great. No, thank you very much.
23 Thanks for having me. Thanks Graciela. Thank you, Chair
24 Randolph and members of the Board. I'm Tyson Eckerle.
25 I'm the Senior Advisor for Clean Infrastructure and

1 Mobility at GO-Biz. And I'm here to offer strong support
2 for the plan adoption.

3 I think the plan -- we all know the plan is key
4 to our collective ZEV market development strategy. And,
5 you know, taking a step back to the \$10 billion commitment
6 is a huge commitment the Governor and Legislature. And
7 the 2.6 billion that we're talking about today is really a
8 key pivotal piece, especially as it couples with CEC's
9 infrastructure funding plan. And you'll hear from Hannon
10 in just a moment about that.

11 And we always ask a lot of these funding plans,
12 but the scale of this one is a huge opportunity. And I
13 think we know these investments will be meaningful,
14 because CARB, and CEC staff, and leadership have been
15 incredibly thoughtful in the details, as you saw in
16 Graciela's presentation. And the details really do
17 matter. Investing and benefiting priority populations
18 matters, and that's in the plan. Investing in fleet
19 transitions, both big and small, matters. That's in the
20 plan. Increasing access to clean mobility matters. I'm
21 particular excited about the Cal-ITP program. We're
22 learning a lot about that going forward. And, you know,
23 demonstrating new technologies and ZEV technology's new
24 sectors matters. And I think this plan does all of that
25 in a meaningful way.

1 It also puts us in a strong position to attract
2 federal investment, in both direct, like the federal
3 hydrogen hubs, and, you know, manufacturing incentives,
4 but -- and also indirect through the tax credits through
5 the IRA.

6 And, you know, as I hand it over to Hannon, I
7 want to also just take a step back and commend the -- you
8 know, CARB, CEC, and CalSTA for close coordination of
9 funding investment plans. You can really see the work
10 that's paying off as far as how these things are playing
11 out.

12 And I just wanted to thank you for the
13 opportunity to come here to support CARB's continued great
14 work and very excited about this plan and hopefully move
15 it forward.

16 So with that, maybe I'll hand it over to Hannon,
17 who is actually online.

18 HANNON RASOOL: Great. Thanks so much, Tyson.

19 Good afternoon. My name is Hannon Rasool. I'm
20 the director of the Fuels and Transportation Division at
21 the California Energy Commission. And thank you for the
22 opportunity to be here today for the opportunity to
23 express support for CARB's 2022-23 funding plan for clean
24 transportation.

25 As has already been mentioned, this represents

1 another really important step in California's significant
2 investments and leadership in decarbonizing the most
3 polluting sector of our industry. California continues to
4 implement important regulations to improve local health,
5 and combat the climate crisis, and also to make key
6 investments to support individual households and
7 businesses.

8 As you may be aware, the Energy Commission is
9 taking our Clean Transportation Program Investment Plan to
10 a Commission business meeting next month. And our two
11 agencies continue to show strong collaboration and a
12 unified focus on supporting zero-emission vehicles and
13 infrastructure, and equitable outcomes.

14 I'd like to commend CARB staff and the CARB Board
15 for putting to work the significant investments from the
16 State budget and from the general fund. This investment
17 plan provides a thoughtful approach, the balances they
18 need to make a rapid transition away from combustion
19 vehicles and also have a strong and intentional focus on
20 equity.

21 This is an exciting and pivotal time to advance
22 zero-emission transportation throughout California,
23 especially in our most impacted communities. And you can
24 see this investment plan shows a strong and thoughtful
25 focus on equity across the board in all vehicle segments.

1 And finally, I'd like to commend both the CARB
2 and Energy Commission team for strong collaboration and
3 coordination in the investments, and vehicles, and
4 infrastructure. These investments go a really long way to
5 support State regulations and goals. This is true in all
6 segments, including the long-standing work to support the
7 passenger vehicle segment.

8 However, I'd like to take a moment to emphasize,
9 by way of example, the strong coordination in the
10 medium-duty and heavy-duty truck and bus sectors. Those
11 agencies propose significant and meaningful investments in
12 the medium-duty/heavy-duty sector and coordinate our
13 flagship program such as HVIP and EnergIIZE. There is a
14 strong and intentional focus on making sure we support
15 California's businesses and fleets with an expanding focus
16 on the unique needs of small fleets and small businesses.
17 And this will help eliminate harmful diesel pollution in
18 all of our communities.

19 In conclusion, CARB's 22-23 funding plan for
20 clean transportation is another meaningful and impressive
21 step in meeting our goals. Thank you very much for the
22 opportunity to present and express our support.

23 Thank you.

24 MSCD AIR POLLUTION SPECIALIST GARCIA: Thank you,
25 Tyson and Hannon. So that concludes staff's presentation.

1 I'd like to hand it back to Chair Randolph.

2 CHAIR RANDOLPH: All right. Thank you very much.

3 And thank you to Hannon and Tyson for sharing
4 your thoughts as well. Okay. So here's the plan, we are
5 going to be taking a lunch break before we begin public
6 testimony on this item. But first, we have a short video
7 that highlights a few examples of projects from previous
8 funding plans that are providing benefits in some of our
9 most impacted communities today.

10 So following the video, I will invite Board
11 members and the public to head outside and visit the
12 zero-emission vehicle and equipment display located right
13 outside the building on 11th street. So take a moment to
14 see up close the variety of vehicles and equipment that
15 this funding helps bring to communities.

16 So after the video, we will take a one hour lunch
17 break to give folks plenty of time to have lunch and go
18 see the vehicles and equipment.

19 So Clerk, will you please play the video.

20 (Thereupon a video was played.)

21 CHAIR RANDOLPH: All right. Thank you very much.
22 And we will see you all again at 1:30 and go outside and
23 check out the equipment.

24 (Off record: Ever 12:33 p.m.)

25 (Thereupon a lunch recess was taken.)

1 AFTERNOON SESSION

2 (On record: 1:32 p.m.)

3 CHAIR RANDOLPH: Okay. We are back from our
4 lunch break and we will now hear from the members of the
5 public who signed up to speak on this item either by
6 submitting a request to speak card or raising their hand
7 in Zoom.

8 So I will ask the Board clerk to begin to call
9 the public commenters.

10 BOARD CLERK HARRINGTON: Thank you. The -- we
11 have 15 commenters. And the first is Madison Vander Clay.

12 CHAIR RANDOLPH: Okay. I think we can go ahead.

13 MADISON VANDER CLAY: Good morning. My name is
14 Madison Vander Clay with the Silicon Valley Leadership
15 Group. Thank you for the opportunity to comment today.
16 The Leadership Group represents over 400 of silicon
17 valley's most respected employees.

18 CHAIR RANDOLPH: You might want to pull the
19 microphone down a little bit, so we can hear you more
20 clearly.

21 MADISON VANDER CLAY: Better?

22 CHAIR RANDOLPH: Yeah.

23 MADISON VANDER CLAY: Okay. Thank you.

24 The Silicon Valley Leadership Group represents
25 400 of Silicon Valley's most respected employers, many of

1 whom are key players in decarbonizing fleets including
2 businesses with fleets to decarbonize as well as those
3 producing ZEVs.

4 SVLG is very concerned that limiting the ability
5 of large fleets to access HVIP funding at this time is
6 harmful to the nascent market for electric trucks. In
7 particular, excluding or greatly limiting Larger fleets in
8 HVIP will ZE product availability for small fleets.

9 Large fleets play a pivotal role in proving out
10 new technologies and driving scale, while small fleets
11 rely on purchasing used trucks from large fleets.
12 Currently, larger fleets represent over half of voucher
13 requests in 2021 and 2022 to date. Assuming an
14 eligibility cutoff of more than 100 vehicles, changes to
15 HVIP must be grounded in data and recognize the central
16 role that larger fleets play in driving near-term demand
17 and scale.

18 Further with an increasing number of states
19 following California's lead and adopting ACT type
20 regulations and in support of incentive programs, there is
21 going to be increased competition between states for the
22 limited supply of MHD ZEVs. No other states that offer
23 HVIP style incentives have proposed restrictions like
24 those being proposed here to effectively limit the ability
25 of larger fleets to participate. Such restrictions that

1 appear likely to greatly limit the role of large fleets
2 may result in the market shifting to a state that provide
3 the most support curbing California's growing ZEV market
4 into overall business competitiveness.

5 As a result, we are here today along with our
6 partners to ask that CARB modify the funding plan to
7 remove those conditions that we think will function too
8 largely, if not entirely exclude larger fleets from
9 participating in the program.

10 We would also ask that the bulk purchase
11 requirement be eliminated. The bulk purchase requirement
12 for large fleets with more than 500 vehicles, which would
13 require them to make very large unsupported commitments to
14 battery electric vehicles before subsequent vehicles can
15 receive HVIP funding is unreasonable and should be
16 eliminated. Given the very nascent state of BEV adoption
17 in the MD/HD space, it is simply not realistic to expect
18 even large fleets to make such a sizable commitment to
19 BEVs without any funding support.

20 Second, given experience with the program to
21 date, where demand for vouchers is unambiguously driven
22 primarily by larger fleets, we ask that the small fleet
23 set-aside be moderated, so that rather than setting aside
24 70 percent of funding, the program sets aside 50 percent
25 of funding for small fleets. This is consistent with

1 recent experience in the program, but still allocates a
2 material greater share of funding to smaller fleets than
3 program data would suggest that they have sought over the
4 past two years.

5 Thank you so much.

6 BOARD CLERK HARRINGTON: Thank you. Next up, we
7 have Greg Reading.

8 GREG READING: Okay. Good afternoon. I'm Greg
9 Reading with U.S. Hybrid. Thank you for the opportunity
10 to be here, provide our thoughts on CARB's investment
11 plan. I also want to give our appreciation to the staff
12 for all the work and process that's gone into developing
13 this plan. Who I represent and work for U.S. Hybrid.
14 We're a California-based company with over 60 employees
15 based in our headquarters and manufacturing facilities in
16 Southern California. We specialize in designing,
17 manufacturing zero-emission powertrain components for
18 electric, hybrid, and fuel cell medium-, heavy-duty
19 municipality vehicles, commercial trucks, buses, and
20 specialty vehicles worldwide.

21 We recently received nearly two million in grants
22 from federal agencies and local air districts to fund the
23 construction of three parallel hybrid Class 8 trucks.
24 These trucks run on both renewable compressed --
25 compressed natural gas and electricity utilizing near --

1 near-zero-emission engines in parallel with our batter
2 electric zero-emission propulsion system. This unique
3 combination of powertrains provides vehicles with combined
4 range of 750 miles, including 55 miles of all electric
5 zero emission.

6 A number of the CARB rulemakings and planning
7 efforts including the Scoping Plan released yesterday and
8 the Advanced Clean Fleets discussions going on cite the
9 ongoing challenge of reaching existing vehicle fleets to
10 address the issues with air pollutants, greenhouse gas
11 emissions, and other combustion related Pollutants. The
12 fact is that we, at U.S. Hybrid, feel like we can reach
13 these existing fleets and convert these existing vehicles
14 to zero-emission.

15 U.S. Hybrid technology includes geofencing
16 capabilities, so that we can ensure that our vehicles do
17 operate in zero-emission and some of the communities that
18 are more burdened by diesel pollution. CARB's incentive
19 programs have been absolutely critical in advancing the
20 early market for zero-emission vehicles, especially
21 heavy-duty. We think we can create a whole new industry
22 around converting existing internal combustion vehicles to
23 zero emission, and also do this at a more economical cost
24 for business owners.

25 The ultimate goal of our work is to accelerate

1 the transition to ZEVs and the conversion of existing
2 vehicles to zero emission while still allowing them to run
3 out their useful life. We hope that you will consider
4 this in supporting us and what we are doing with vehicle
5 conversions for the H -- HVIP Program.

6 Thank you very much.

7 BOARD CLERK GARCIA: Thank you. And just a quick
8 announcement before we move on to the next speaker. We
9 will be closing speaker sign-ups for item at 2 p.m. And
10 that applies to in-person and remote commenters this Zoom.
11 So 2 p.m. Sign up before 2 p.m. Thank you.

12 BOARD CLERK HARRINGTON: Thank you. And the next
13 speaker is Brent Coffey.

14 BRENT COFFEY: Hi. First off, I want to say on
15 behalf of Sunbelt, we want to thank you for the
16 opportunity to display some examples of our zero-emission
17 equipment from our fleet during our lunch break. So
18 hopefully you enjoyed that and we're appreciative of the
19 opportunity.

20 Sunbelt operates nearly 1,200 locations
21 throughout North America, with over a hundred of those
22 locations right here in California. With over 15 billion
23 of fleet owned globally, we're one of the largest single
24 owners of combustion engines in the world. However, we're
25 also one of the most active investors in and Market

1 leaders in the purchasing of zero-emissions equipment to
2 serve all things construction and non-construction. We
3 take zero-emissions very seriously.

4 We've aligned ourselves along our -- with our OEM
5 partners to develop zero-emission products to ensure that
6 they meet the stringent demands of our customers and
7 there's no better example of that than the Bobcat T7X all
8 electric compact track loader that you saw. Sunbelt and
9 Bobcat spent close to three years co-developing this
10 product on customer job sites and in the harshest of
11 environments.

12 One of those job sites is the Edward and Sanborn
13 Solar and Energy Storage Project located in the Mojave.
14 Not only is it one of the largest of the projects in the
15 world of its kind, it's also one of the most harshest
16 environments to operate equipment in. In fact, the unit
17 that you saw out front was validated there and that is
18 actually the first unit to ever been produced.

19 The T7X was one of the few products that was
20 qualified for the CORE Program on the construction side.
21 Because of it's advanced technologies, costs have always
22 been one of the concerns when it comes to gaining traction
23 in the marketplace. The CORE Program has closed the cost
24 gap to a point that end users can now rent these products
25 at a price point comparable to the diesel alternative in

1 California. In doing so, we're already seeing demand grow
2 and expect this trend to continue for the foreseeable
3 future.

4 Another produce that CORE is helping drive
5 penetration into the market is through portable energy
6 storage solutions. These products allow for companies
7 like Sunbelt to provide a noise-free, emission-free power
8 solution to job sites advanced in other applications.
9 They're used to charge EVs, power electric equipment as
10 well as supplement combustion gener -- power generation.

11 Sunbelt's investments in energy storage are
12 large. And one of those investments is with a one company
13 called Moxion, a company located just two hours from here
14 in Richmond, California. Our customers range from Fortune
15 500 companies to the local homeowners and they all have
16 great interest in zero-emission products. However,
17 oftentimes, they find them risky, including reliability,
18 availability, practicality, and cost. It's the rental
19 channel that eliminates those risks, as well as the -- it
20 provides the infrastructure to support the power and
21 charging.

22 Looking forward, Sunbelt continues to lead the
23 construction industry in advancement and investments in
24 zero-emission products. Our relationship with CARB and
25 the CORE Program has been instrumental in the expansion of

1 zero-emission products in the state of California and
2 we're already working together jointly on what's coming
3 next.

4 Sunbelt and our customers are thankful for the
5 investments made by the State and we'll continue to be a
6 partner with CARB in the future to bring technology to the
7 market that reduces greenhouse gases on improving
8 productivity and safety.

9 Thank you for the opportunity.

10 BOARD CLERK HARRINGTON: Thank you.

11 Next is Michael Caprio. Make' cap row.

12 MICHAEL CAPRIO: Good afternoon, Chair Randolph,
13 members of the Board, staff. Michael Caprio, Director of
14 Government Relations for Republic Services, a waste and
15 recycling services provider throughout California.

16 Appreciate the opportunity to address you today
17 and our comments are geared towards two elements of the
18 funding plan relative to heavy-duty vehicles. But first
19 off, we'd like to thank staff for their inclusion of the
20 25 percent enhancement to the incentives specifically for
21 refuse trucks. And our comments today are geared towards
22 actually having access to those funds for large fleets,
23 because we think the rule, as it's written today, makes
24 that difficult. So I'm going to focus on two areas.

25 The first is fleet balance allocation, having

1 equal weight as a primary operating location for the
2 fleet, and the second is the bulk purchasing requirement
3 for large fleets and the threshold that is there today.

4 As you may know, the industry -- our industry
5 serves priority communities throughout the state through
6 mostly extended term franchise agreements with the
7 communities that we are under contract with. It's a mixed
8 bag of whether or not the trucks that serve these
9 communities are actually domiciled in priority
10 communities. We have many operations that are located not
11 in priority communities, but service multiple priority
12 communities in that particular location where the trucks
13 are domiciled.

14 The vast majority of the daily operating hours
15 for the vehicles are on the streets in the communities we
16 serve. The time that is spent at the domiciled location
17 of the corporation yard is negligible. The drivers come
18 in in the morning, they do their pre-trip. The truck is
19 turned on for five minutes before they leave the yard,
20 same thing in the evenings. And the truck may get moved
21 back and forth to the maintenance shop, but it's a very,
22 very, very small part of their day where the truck is
23 actually operating in the location where it's housed.

24 Our simple ask is that our fleets serving
25 disadvantaged communities be given equal access to funding

1 whether or not they are domiciled in the priority
2 community. We have some ideas that we can work with staff
3 on that we think will be easy in terms delineating how to
4 state -- determine whether a piece of equipment or a fleet
5 is operating within a disadvantaged community. And one
6 potential means of doing that is getting the idea of where
7 our franchise agreements are, and if they are in a
8 disadvantaged community, that that would allow us to have a
9 pretty straightforward test of whether or not the trucks
10 are operating in these communities that are a priority
11 under this ruling and many other actions that the CARB
12 Board is undertaking.

13 The second topic here is bulk purchasing
14 thresholds for large fleets. Small fleets already have a
15 priority in terms of preference in amount of allocated
16 funds as appropriate. The funding plan requires large
17 fleets to meet a 30 truck purchasing threshold. And
18 numerous priority communities are serviced by large
19 fleets.

20 The ACF Rule will have an effect upon rates for
21 our service agreements. And the priority communities
22 might be less likely to embrace ZEV trucks if rates
23 impacted. And these communities will take a later on
24 approach in terms of jumping into this space.

25 Simply put, the bulk purchase threshold is a

1 second layer of coverage for small fleets that may run
2 counter to the intent of the funding plan, which is put --
3 placing electric vehicles in disadvantaged communities.

4 Appreciate your time. Thank you.

5 BOARD CLERK HARRINGTON: Thank you.

6 Next is Sara Fitzsimon.

7 SARA FITZSIMON: You said my name correctly.

8 Thank you.

9 Good afternoon, Chair Randolph and members. My
10 name is Sara Fitzsimon and I'm the Policy Director at the
11 California Hydrogen Business Council.

12 I'd like to start by thanking staff for your work
13 on this really promising proposal. It's a really exciting
14 time to be in the ZEV industry with your work paired with
15 our members' work and the technology advancements and
16 deployment. So very excited to be reading this proposal
17 and we just have a couple things that we'd like to offer
18 support on and then a potential amendment as well.

19 So first, I'll start with the hydrogen
20 technology, just as a background. Hydrogen fuel cell
21 electric vehicles are an ideal replacement for traditional
22 gas and diesel powered vehicles, because they enjoy long
23 range, high payload, and short refueling times across all
24 on- and off-road vehicle classes. So that being said,
25 CHBC does support all proposed vehicle purchase incentives

1 that were listed, clean mobility investments, and we
2 encourage when the allocation of funds happens, that there
3 is a technology-neutral approach to allocations that allow
4 the purchaser to choose the zero-emission option that best
5 serves their needs and their duty cycles.

6 Additionally, CHBC supports amending the HVIP
7 staff proposal to allow for all fleet sizes the
8 opportunity to receive HVIP funding to ensure the highest
9 number of ZEVs can be purchased in the shortest amount of
10 time to transition the highly polluting and GHG emitting
11 medium- and heavy-duty transportation sector to zero
12 emission.

13 And finally, CHBC supports investment in the CORE
14 program, demos and pilots, including locomotive, cargo
15 handling, and commercial harbor crafts along with ZEV
16 truck loan pilots. And I was really excited to see two of
17 our CHBC member companies Sunline and Hyzon being
18 represented in your presentation. So great to have our
19 technology out there and great to be partnered with all of
20 you, and looking forward to working on this further.
21 Thanks for your time.

22 BOARD CLERK HARRINGTON: Thank you. Next is
23 Orville Thomas.

24 ORVILLE THOMAS: Thank you, Chair Randolph and
25 Board members for the opportunity to speak today. Also

1 thank you to CARB staff for the work that you put into the
2 proposed funding plan. My name is Orville Thomas and I
3 serve as CALSTART's State Policy Director in California.
4 I'm here to offer strong support for FY 22-23 funding
5 plan. CALSTART is a California based non-profit
6 organization with over 30 years of vehicle technology
7 development, validation, market transformation, and
8 advocacy experience with over 300 members in the clean
9 transportation technology marketplace. And as the
10 administrator of several CARB-funded programs, CALSTART
11 has a firsthand understanding of the environmental
12 benefits and acceleration of clean transportation
13 technology that previous funding plans have allowed for.

14 We note that our comments are based on our
15 organizational expertise in this space and do not
16 necessarily represent the consensus of our members.

17 The Clean Mobility Options Program is a
18 first-in-the-nations program that empowers underresourced
19 communities across California to overcome their mobility
20 obstacles. With past funding, the program allowed for 24
21 community transportation needs assessments, and many of
22 those awardees are now pursuing funding to implement a
23 local shared mobility service. These projects, such as
24 zero-emissions shuttle service for seniors and eBike
25 rental for low-income residents increase community members

1 access to transit, health care, education, and other
2 essential services.

3 We support CARB staff's proposal to add funding
4 to CMO, as well as the Sustainable Transportation Equity
5 Project, or STEP, and Clean Mobility in Schools. The
6 Hybrid and Zero-Emission Truck and Bus Voucher Incentive
7 Program, known as HVIP, is the country's most renowned
8 program for funding zero-emission medium- and heavy-duty
9 vehicles. HVIP is seen as a model by other states as they
10 think through their zero-emission vehicle scoping plans.

11 Over the past year with the funding the
12 Legislature allocated and staff has programmed, HVIP has
13 distributed more than \$400 million in voucher requests for
14 zero-emission trucks and buses. The HVIP team is working
15 closely with CEC's EnergIIZE Commercial Vehicles
16 Infrastructure Incentives Project, also administered by
17 CALSTART, to streamline the funding process and articulate
18 the full incentive journey to end users.

19 The Clean Off-Road Vehicle Voucher Incentive
20 Program known as CORE has built on the knowledge learned
21 from HVIP. In the past legislative session, CORE was
22 allocated 27 million to provide incentives for
23 professional landscape services in California operated by
24 small businesses. The professional landscape service
25 equipment category launched November 7th with 13

1 manufacturers and over 300 pieces of equipment, and to
2 date, over 2.5 million worth of vouchers has been
3 requested.

4 And finally, I want to highlight the importance
5 of CARB's clear zero-emission strategy. Today, at COP27
6 in Egypt, the United States government officially signed
7 on to the global MOU. This is a gigantic milestone and it
8 was managed by CALSTART's Global Commercial Vehicle Drive,
9 which emerged from CARB's beachhead strategy.

10 Thank you.

11 BOARD CLERK HARRINGTON: Next is Ed Manning.

12 ED MANNING: Good afternoon, Chair Randolph and
13 members. Ed Manning with KP Public Affairs here on behalf
14 Catalina Channel Express and we're here in support of this
15 item.

16 First of all, a little background on Catalina
17 Channel Express. We're the ferry system that operates
18 each day to and from Catalina Island, eight high-speed
19 ocean-going passenger ferries. And even though we're a
20 private company, we're a common carrier that's regulated
21 by the Public Utilities Commission. About a year ago, we
22 worked very, very hard with your staff and the Board --
23 Board members here to come up with a solution and a
24 pathway for ferries that made sense to get us ultimately
25 to zero emissions, but try to make path -- create a

1 pathway -- viable pathway for Tier 4 in the interim.

2 Thank -- we'd like to thank staff -- regulatory
3 staff who aren't here today, but they set in motion --
4 Heather Arias and her team and effort which we launched to
5 get funding in the -- in this legislative session in the
6 budget for harbor craft and in particular money for
7 ferries and private ferries to be able to access to help
8 them get early emission reductions and start to implement
9 the program successfully. And candidly, that would not
10 have been successful without the work of Chair Randolph
11 and in particular Board Members De La Torre and Kracov,
12 who were so critical in this effort.

13 Today, we stand here waiting to work with you to
14 implement this. We see a pathway to get -- if we can get
15 adequate funding, to replace one of our ocean-going
16 vessels with a new Tier 4 compliant vessel and take out of
17 operation three vessels in its place. That would get both
18 criteria emission reductions and greenhouse gas benefits
19 that would be tremendous for the local community and set a
20 path, and then allow us adequate time as we explore the
21 path which may be a decade away still to try to get to
22 zero emissions, whether it's through electric, hybrid
23 electric, hydrogen, or green hydrogen ultimately down the
24 road.

25 But we would -- we would like to thank all of you

1 for your efforts. We're here to support and work with
2 you, and look forward to working with your staff in
3 implementing the program.

4 BOARD CLERK HARRINGTON: Thank you.

5 Bill Magavern.

6 BILL MAGAVERN: Bill Magavern with the Coalition
7 for Clean Air here in support of this funding plan. We've
8 worked on the annual funding plan for many years and I
9 think every year it gets a little better. And this year's
10 I think is especially something to be proud of. It, of
11 course, helps a lot when there's a budget surplus. So,
12 you know, having ample funding is a big part of it, but I
13 also think there are some really sound policy choices that
14 are embedded in this plan and it does come out of an
15 extensive public process that your staff conduct.

16 So you'll be hearing later through the magic of
17 Zoom from my colleague Chris Chavez on the light-duty
18 components and I'll make a few comments on heavy-duty,
19 off-road, and Carl Moyer.

20 We all know that for purposes of community air
21 protection, it's crucial to reduce diesel exhaust. And
22 that is, you know, mostly coming from these heavy-duty and
23 off-road engines. You, of course, have been in the
24 process of adopting some very significant regulations to
25 reduce that exhaust. And I see the funding incentives

1 here as an important complement to support those rules
2 like Advanced Clean Trucks, Advanced Clean Fleets,
3 Innovate Clean Transit, and Commercial Harbor Craft.

4 In the HVIP Program - and I'm impressed that
5 Oroville gave the full name. I'm just going to say HVIP -
6 we support the way that the plan would leverage private
7 capital and bring this in a fleet limit in 2024 to align
8 with the Advanced Clean Fleets Rule, which you're headed
9 towards adopting next year and would really prioritize
10 incentives for the smaller fleets, which are mostly not
11 included in Advanced Clean Fleets, and which need the most
12 help in order to make this transition.

13 When it comes to off-road engines, the funding
14 would support the Small Off-Road Engine Rule, the Off-Road
15 Diesel Rule that you approved this morning - thank you -
16 and there's some really exciting developments in off-road
17 technology, which we just saw outside. I was really happy
18 to see some that I hadn't seen before.

19 When it comes to demonstration projects, I think
20 that it does make sense as the plan proposes to invest in
21 some of the hard-to-electrify sectors like aviation, and
22 rail, and marine vessels, and really try to advance those
23 technologies. And then finally, when it comes to Carl
24 Moyer, we do support the increases in the cost
25 effectiveness limits.

1 Thank you.

2 BOARD CLERK HARRINGTON: Thank you.

3 Kristian Corby.

4 KRISTIAN CORBY: Good afternoon, Chair Randolph
5 and Board members. My name is Kristian Corby and I'm the
6 Deputy Executive Director at the California Electric
7 Transportation Coalition, or CalETC. We'd like to thank
8 the CARB Board and staff for their hard work on this
9 funding plan. My comments today will focus on the
10 proposed changes to HVIP.

11 CalETC worked with a broad coalition, including
12 labor, fleet operators, OEMs, utilities, charging
13 developers, and the cleantech industry on these
14 recommendations. And I'd like to say I support the
15 comments earlier by the Silicon Valley Leadership Group.

16 It's important to highlight that the ZEV truck
17 market is still a nascent market. Today, California has
18 less than 600 ZEV trucks and vans on the road. Therefore,
19 it is far too early to restrict fleets from the market
20 today. Additionally, with the Advanced Clean Fleet Rule
21 presumably coming into effect in 2024, fleets subject to
22 ACF will not be able to access HVIP for compliance
23 purposes, so it's worrisome to see many changes to the
24 program that will significantly impact the market for only
25 one year, but a pivotal year, a year in which we should be

1 encouraging all fleets to take early action in advance of
2 the ACF and ACT going into effect.

3 If we do not continue to accelerate the medium-
4 and heavy-duty ZEV market in the next couple of years, we
5 worry that the market could languish and delay the much
6 needed air quality improvements that we get from
7 converting diesel engines to ZEVs.

8 Specifically, for fleets of 500 or more, we
9 request that CARB remove the 30 tuck -- the 30 truck
10 minimum purchase requirement and clarify the requirement
11 that trucks need to be deployed in a disadvantaged
12 community. We also recommend reducing the voucher amount
13 for fleets of 500 or more by only 30 percent instead of 50
14 percent. In accordance with CARB's data on voucher
15 demand, we recommend reserving 50 percent of the standard
16 voucher funds for fleets of 100 vehicles or less.

17 Given the vital role that larger fleets play in
18 proving out new technologies and driving scale coupled
19 with the substantial share of medium- and heavy-duty
20 vehicles that these fleets represent across the state, we
21 are deeply concerned that the practical exclusion of
22 larger fleets from HVIP will jeopardize the State's
23 efforts to effectively and quickly transition medium- and
24 heavy-duty vehicles to zero-emission alternatives.

25 Finally, CalETC will continue to advocate in the

1 Legislature for adequate and sustainable funding for
2 medium- and heavy-duty ZEV trucks. We are your ally and
3 we will continue to fight for these trucks.

4 Thank you very much for your consideration.

5 BOARD CLERK HARRINGTON: Denee Evans.

6 DENEЕ EVANS: Good afternoon. I'm Denee Evans
7 with the City of Richmond Transportation Services Project
8 Manager. And I'm very happy to be here today to speak on
9 behalf of the City of Richmond and other municipalities
10 that haven't had the opportunity to be here. The City of
11 Richmond has benefited from many of the programs that you
12 are considering funding. And we are supportive of
13 providing additional funding for each.

14 Specifically, I'd like to speak towards clean
15 transportation initiatives. On that end, the City of
16 Richmond would not have been able to build its EV
17 infrastructure. It would not have been able to create on
18 demand Richmond shuttle service, which you were -- had the
19 opportunity to see the van outside today. You'll have an
20 opportunity to receive the written testimony from some of
21 our community members of how it has impacted their life.

22 From a municipal standard, the City of Richmond
23 doesn't have the capacity to have a large grant team to
24 apply for grant fundings, and many times we have missed
25 out on many opportunities because of that. But with the

1 CMO program in particular, it was non-competitive, and it
2 opened the doorway for changing lives in our community.

3 The reason why we created that program was
4 because we received feedback from seniors that their --
5 the options for transportation were being operated in
6 silos. The seniors in general, they have limited funding.
7 And trying to fund transfers from BART, bus, and other
8 transportation options were a challenge. So we are very
9 happy to partner with Via Transportation and be amongst
10 the first of the Clean Mobility Options awardees to
11 implement our program. And the first response we received
12 is this is a great program. Why isn't it being expanded
13 throughout the city?

14 Just to give you the context, I know you're
15 considering 20 million to expand for the first round
16 awardees, and I want to just tell you where a million
17 goes. For the City of Richmond, we used a million dollars
18 to implement three on-demand electric shuttles and it
19 covers a 5.6 square mile area. With additional million
20 dollars, maybe we can extend it another 10 miles. But we
21 have a population of 116,000 and we have a city
22 jurisdiction of 52.2 square miles. So if you're
23 considering giving additional money for first round as
24 well as second round CMO awardees, please consider
25 increasing the amount, because without these funds, we

1 would not be able to provide these services that are
2 changing lives.

3 Thank you.

4 BOARD CLERK HARRINGTON: Thank you. And just a
5 note that speaker sign-ups are now closed.

6 Our next speaker is Rey León.

7 REY LEÓN: Buenas tardes. Good afternoon. My
8 friend said I should lower this down. Low rider.

9 (Laughter).

10 REY LEÓN: Oh, you're the back up for that or --

11 (Laughter).

12 REY LEÓN: Well, and I'd like to just thank
13 everybody. It's good to see a lot of familiar faces that
14 I've been seeing for quite a while now, right, originally,
15 as an environmental justice advocate and organizer early
16 in the 2000s, but we continue the good work. And I'd like
17 to say that, you know, I'm fighting less the bad and
18 building more the good. And that wouldn't have been
19 possible without the previous battles and fighting the
20 bad, right?

21 And I really appreciate the leadership of the
22 Board and helping unfold this vision that I think we had
23 from early on, you know. And, you know, being in the
24 capital back in the days was Dean Florez, the Senator,
25 and, you know, just doing some good policy work there and

1 just going off of that.

2 But I have some words prepared that I want to
3 share and also talk a little bit about Green Raiteros and
4 what we're doing and how big of an impact it is that CARB
5 is able to invest.

6 Some general statements in terms of low-income
7 communities are the first and worst hit from
8 emission-producing operations. Farmworker communities are
9 the most vulnerable to remedy consequences for bad air,
10 heat waves, and the climate crisis. Historically,
11 infrastructure and mitigation investments have been
12 absent. It is of utmost importance to not just have
13 equitable investments, but to go beyond that for
14 communities that have been disproportionately impacted by
15 pollution, lack of infrastructure, and irresponsible
16 industries that have contributed to undermining quality of
17 life for the lifeblood of our economy and champions of the
18 nations food chain.

19 I'm a descendant of farmworkers, my father a
20 bracero farmworker, may be rest in peace, and our folks
21 work too hard to not have the best. Communities like
22 Huron need attention from the State's resources to address
23 a decade's worth of negligence. Our Fresno County
24 achieved for a second year in a row, the highest
25 agricultural revenue in the state. California, the fifth

1 strongest economy on the planet -- or is it the fourth? I
2 think it changed, right? We beat out Italy. Sorry,
3 guys -- or Germany, somebody. Yet, Huron and five other
4 agriculturally based cities are simultaneously identified
5 as the poorest cities in the state, in the county that has
6 the highest ag revenue. This only highlights the deep
7 roots of inequity in our area, the situation and being
8 overlooked, underinvested, and even undermined.

9 But again, I congratulate your leadership for
10 being bold to create change to improve lives in the San
11 Joaquin Valley, and Huron proper, and other parts of
12 California. CARB and other agencies cognizant of the
13 economic, environmental, and climate justice needs in our
14 community are in the best position as champions for all
15 the right reasons. The programs that have been unfolding
16 are exemplary and they're also evolving to become greater
17 resources for the communities in most need. Bridging the
18 most vulnerable to their essential appointments, including
19 medical appointments, while not polluting the air is an
20 amazing thing. No contradiction -- no contradiction in
21 the public health work.

22 The opportunity even goes further to be able to
23 train a workforce, provide employment, careers, and
24 stimulate the local economy, all of this, while advancing
25 amenities, infrastructure, and the better quality of life.

1 As I conclude, continue the good work, but
2 emphasize on those communities that have historically been
3 left out and that currently are bound by industries that
4 do not provide them high road opportunities. The LEAP
5 Institute and myself are more than happy to innovate,
6 plan, and proceed with progress punches for economic,
7 transportation, health, climate, and environmental
8 justice. All of it together is -- I call it the Clean
9 Power Punch. Si Se Puede.

10 And I want to also remind you that in Huron, we
11 have a rail, the only city in the county that has -- is
12 connected to the cross-valley rail. And the whole idea is
13 the light passenger rail that will connect our community
14 and 13 others to the HSR and Amtrak.

15 CHAIR RANDOLPH: Rey, you've got to -- you've got
16 to wrap up.

17 REY LEÓN: But that's my concluding remarks.

18 CHAIR RANDOLPH: Okay.

19 REY LEÓN: And come over to Huron. We've got the
20 best tacos west of the Mississippi. And I'll give you a
21 tour so you can see what beautiful things that are
22 happening for our farmworker families.

23 Thank you.

24 CHAIR RANDOLPH: Thank you.

25 BOARD CLERK HARRINGTON: Thank you.

1 Next is Adam Harper.

2 ADAM HARPER: Chair Randolph, member of the
3 Board. Adam Harper, California Construction Industrial
4 Materials Association. I just wanted to say a few words
5 thanking the Board, the State of California quite frankly,
6 the air districts and community that have supported this
7 funding coming forward over the -- over the years. Our
8 members operate across multiple of these different
9 programs that are all absolutely critical to helping
10 support this evolutionary change in technology that we are
11 accomplishing in our State and targeting in our State, and
12 quite frankly which we have been engaging in for many
13 years.

14 Obviously, the -- the pollution reduction impacts
15 are important. The cost impacts are obviously important
16 as well. So as you use this technology, we would
17 encourage you to listen to the words about technology
18 neutrality. The producers on the ground really do know
19 the work they need to accomplish to fill their role in the
20 economy meet our society's needs and making sure they can
21 find the right technologies for their niche in the economy
22 really is important as we work through this process. So
23 thank you and thank you for the funding, and we appreciate
24 it.

25 BOARD CLERK HARRINGTON: Thank you.

1 Keshia Thomas.

2 KESHIA THOMAS: Keshia Thomas. Thank you.

3 I would first like to say that I appreciate,
4 number one, for you all listening to us and supporting the
5 hard work that many of us are doing in our communities.

6 I am in complete support of the resolution 22-20.
7 Thank you for creating a clean transportation funding,
8 because without it, Fresno would not have been able to do
9 the clean transportation work in the lower socioeconomic
10 areas in which we have been doing.

11 We, the Clean shared Mobility Network, are
12 honored to assist in the continuing -- in continuing the
13 focus on disadvantaged communities, equity, and
14 environmental justice. In Fresno, we are working very
15 hard to ensure our underserved communities are a part of
16 the transition to clean transportation. We are doing this
17 by working with partners to deploy electric cars and
18 bicycles into the community and creating a space for our
19 community to own the transition and embrace the project,
20 which I call Uber on steroids.

21 Many of our community members are excited about
22 the program and lastly thank you for coming out to look at
23 what we are offering outside. And thank you, Supervisor
24 Serna, for taking the time to visit us and taking a ride
25 on our electric bicycle. I can't wait to see how we all

1 improve cutting climate pollution and improving public
2 health. Thank you.

3 BOARD CLERK HARRINGTON: Andy Schwartz.

4 CHAIR RANDOLPH: Supervisor Serna was having way
5 too much fun with -- on that electric bike.

6 ANDY SCHWARTZ: Hello. Good afternoon. Chair
7 Randolph, members of the Board thank you so much for the
8 opportunity to speak today. My name is Andy Schwartz here
9 on behalf of Tesla.

10 I want to thank you for your leadership in the
11 clean energy space. Absolutely fundamental as we all seek
12 to advance sustainable energy in California and globally.
13 I want to thank you for all the work you've done on the
14 funding plan. And I also want to thank staff for all the
15 hard work you guys have put in the funding plan, even
16 though, as you know I'll relate in moment, we do have some
17 concerns with a few aspects of the plan.

18 I'm here to ask the Board to specifically modify
19 those provisions related to HVIP that will de facto
20 exclude fleets with more than 500 vehicles from
21 participating in the program. Under the funding plan,
22 larger fleets interested in battery electric vehicles
23 would be required to purchase 30 of those vehicles without
24 any incentives and only would be able to access HVIP
25 incentives for subsequent purchases. This condition is

1 counterproductive and will serve to inhibit near-term ZEV
2 deployments by these large fleets at the very time we need
3 them to start taking action. There is no evidence to
4 suggest that any fleet operator would be willing to make
5 such a substantial commitment to ZEVs without any
6 assistance or that the promise of HVIP incentives will
7 motivate them to do so.

8 Notably, this bulk purchase requirement only
9 applies to battery electric vehicles. Fuel cell vehicles
10 are exempt from this requirement. Just to give you a
11 sense for the impacts on the incentives that these large
12 fleets would receive, the bulk purchase requirement does
13 dramatically reduce the per vehicle incentive that would
14 effectively apply to these vehicles.

15 You know, for example, a large fleet buying Class
16 8 battery electric sleeper cabs is ostensibly eligible for
17 a per vehicle incentive of \$60,000. But when one factors
18 in the 30 vehicles they would need to buy without funding
19 to get -- to access that incentive, the per vehicle
20 insensitive drops to \$2,000 per vehicle. This is not much
21 of an inducement to make that investment, considering that
22 CARB's own estimates suggest that a Class 8 sleeper cab
23 would cost over \$300,000 in a battery electric format.

24 The pur -- even for a fleet that purchases 60
25 vehicles, the per vehicle incentive that that fleet would

1 be eligible for would drop to something that's around
2 75 -- that's 75 percent below the base level incentive.
3 Again, you know, the bulk purchase requirement really
4 dramatically impacts the efficacy of HVIP in motivating
5 large fleets to pursue those vehicles.

6 The purpose of HVIP is to offset the higher
7 up-front cost of ZEVs, as well as overcome the technology
8 risks that limit the willingness of fleets to deploy them
9 in advance of the compliance obligation. Even for larger
10 fleets, these re -- these concerns remain a significant
11 barrier. We note the medium- and heavy-duty ZEV
12 deployment remains practically non-existent today, with
13 data from the CEC suggesting that only 306 battery
14 electric trucks are on the roads today in California. In
15 light of the ACF Regulation, the next year is a critical
16 period to prime the market by supporting early action by
17 those large fleets that have a central part to play in
18 proving out the business case these vehicles.

19 I would note that CARB is already taking steps to
20 ensure that smaller fleets have priority access to funds
21 via the proposed 70 percent set-aside. Given this, it's
22 hard to understand why this limitation on large fleets
23 that participate in the program is needed and we would ask
24 that that condition be removed.

25 Thank you so much.

1 BOARD CLERK HARRINGTON: Thank you.

2 Raef Porter.

3 RAEF PORTER: Good afternoon, Chair and members
4 of the -- of the Board. I first want to thank staff for
5 all the hard work they put into this funding plan and
6 we're very supportive of many of the elements in it.
7 We're really happy that the plan continues to implement
8 local, State, and federal goals related to air quality and
9 climate change. And we also want to highlight the focus
10 on small and medium fleets in disadvantaged communities.

11 This emphasis help the adoption and use of
12 zero-emission technologies and makes it more of a reality
13 for certain portions of our State's population that
14 typically can't afford this technology.

15 We're also supportive of the cost effectiveness
16 changes made to the Moyer Program and feel that this
17 greatly improves the program's ability to deliver
18 impactful projects. The increase of funds to existing and
19 statewide Clean Cars 4 All Program is an example of the
20 State's commitment to reducing transportation related
21 emissions and providing opportunities for lower income
22 residents to have clean, safe, and reliable
23 transportation. Sac Metro Air District staff looks
24 forward to increasing the reach of our current Clean Cars
25 4 All Program and working with CARB staff to make this

1 program efficient and effective.

2 One area, however, that we feel the proposed plan
3 falls short is the shift of funds out of equity-focused
4 projects. It's our understanding based on conversations
5 with CARB staff that \$60 million was shifted out of a
6 specific equity-focused program area into another sector.
7 While we understand that all sectors need to reduce
8 emissions, shifting funds from equity projects, projects
9 that provide mobility solutions and emission exposure
10 reductions for communities that are most vulnerable to
11 poor air quality and climate impacts, communities that
12 can't afford their own vehicle even with incentives, and
13 communities that live in areas with little or no transit
14 service, this is not only sending the wrong message, it
15 perpetuates a broken system that underfunds and
16 underresources these communities.

17 Sac Metro Air District has been working with
18 community-based organizations over the past four years to
19 provide safe, reliable, and clean transportation
20 opportunities in these communities. Our community car
21 share program is in 11 different communities with plans to
22 expand the services to more and more residents that need
23 ways to get to work, to school and to basic services.
24 However, while we have made strides to find resources to
25 make this program and others like it more sustainable and

1 not reliant on State funds, the simple truth is that
2 providing services in these communities, communities that
3 our system has neglected takes both time and money.

4 Again, we have been told that there will be no --
5 there will no longer be funds for this in similar
6 projects, which means that we have to face the real
7 possibility of removing these services from the
8 communities in which we have made a real positive impact.

9 We support the expansion of many of these
10 programs as well as the guidelines to the changes to the
11 Moyer Program. We hope to continue to work with CARB
12 staff on many projects. We hope that you consider finding
13 ways to keep funds within these equity-focused programs.
14 We do understand that this is largely driven by a
15 legislative change, but we do think that you have some
16 flexibility in these funds.

17 Thank you for your time.

18 BOARD CLERK HARRINGTON: Thank you. This
19 concludes all the in-person commenters and now we will
20 hear from the remote.

21 BOARD CLERK GARCIA: Thank you. And currently we
22 have 21 remote commenters for this item. And just another
23 reminder, the speaker sign-ups are closed for this item.

24 So first, we will hear from Terry Manies,
25 Loma[SIC] Avila, Christopher Chavez, and Colin Wilhelm.

1 So Terry, I have activated your microphone.
2 Please unmute and begin.

3 TERRY MANIES: Hi. Thank you. Thank you for
4 giving me the opportunity to comment. I'm Terry Manies
5 from Orange EV. We're the OEM of America's most deployed
6 pure electric terminal truck.

7 Orange EV appreciates CARB's prioritization of
8 projects benefiting residents in overburdened communities,
9 where terminal trucks often operate in distribution
10 centers, ports, intermodals, and other goods movement
11 operations. OEV trucks have been commercial -- excuse me.
12 OEV trucks have been in commercial operation since 2015,
13 and as of this month have driven more than 7.2 million
14 miles and logged over 2.1 million key-on hours.

15 Through the breadth and duration of these
16 employments, we've received a great deal of input,
17 comments, and opinions from terminal tractor operators,
18 many of who have said we could do even more to reduce
19 emissions if CARB were to prioritize point-of-sale funding
20 programs and voucher programs like CORE.

21 While customers appreciate the savings -- excuse
22 me. While customers appreciate the savings reimbursement
23 programs, like Carl Moyer, they often point out that they
24 would convert even more equipment to zero emission if
25 incentives did not require them to destroy assets like

1 older equipment and/or bear the full cost for replacement
2 technologies at the time of purchase.

3 Towards this end, we are glad to see that CARB
4 staff recommendations have made recommendations to
5 increase CORE's budget for fiscal year 22-23. And Orange
6 EV hopes CARB will consider following this trend over time
7 by continuing to increase funding for point-of-sale
8 vouchers like CORE, as you set future funding priorities
9 with a heightened view towards benefiting small businesses
10 and residents in overburdened communities.

11 Thank you for all you do.

12 BOARD CLERK GARCIA: Thank you.

13 Loma[SIC], I have activated your microphone.
14 Please unmute and begin.

15 LORNA AVILA: Hello, everyone. First, I want to
16 say thank you for taking the -- for the speaking
17 opportunity and for CARB's work on the funding plan. My
18 name is Lorna Avila and I'm the Environmental Justice
19 Planner at T.R.U.S.T. South LA and I am also specialist
20 for BlueeLA.

21 BlueLA is one of the founding investments from
22 CARB in clean mobility and pulled together partners that
23 include the Los Angeles Department of Transportation,
24 Blink Mobility, the LA Department of Water and Power,
25 Mobility Development Partners and six community based

1 organizations like ours that make up the program steering
2 committee.

3 BlueLA has a fleet of 100 electric vehicles
4 stationed in the public right of way in the disadvantaged
5 communities throughout central Los Angeles. Over the next
6 two years, this program will grow to 300 cars with major
7 expansion in South LA, Boyle Heights, and East Hollywood.
8 The program serves some of the most disadvantaged and
9 pollution-burdened communities in California providing
10 much needed clean transportation for access to health,
11 education, and employment opportunities.

12 The steering committee, the City of Los Angeles,
13 and Blink Mobility work together in a unique partnership
14 that ensures that the voices of neighborhood residents are
15 built into the DNA of the program and that these voices
16 stay relevant as the program expands. Steering committee
17 members have shifted focus over the years as we continue
18 to support the program from program advocacy and
19 negotiation to building a awareness for and guiding
20 expansion of the program. What has stayed consistent is
21 the need for continued public advancement in not only the
22 program itself, but als in capacity building for partner
23 community organizations like ours to support BlueLA's
24 goal.

25 T.R.U.S.T. South LA is equipped to deliver cost

1 effective results for LA's disadvantaged communities, so
2 steering committee specialist works with the program team
3 including Mobility Development Partners to spread the word
4 about the program and solicit feedback back about station
5 expansion. Our work is led by community organizers and we
6 outreach to be a long-term commitment for our organization
7 and for our community, so invested in capacity building
8 it's critical at this point in BlueLA's evolution.

9 We are in urgent need of support to expand the
10 program through other regions in California. We're
11 encouraged to see a boost to the capacity building
12 allocation this year and ask CARB to consider advancing
13 these funds quickly, so that we can support CARB's
14 continued deployment of this program.

15 Thank you again for the opportunity to provide
16 comments and CARB's ongoing support.

17 BOARD CLERK GARCIA: Thank you.

18 Christopher, I have activated your microphone.
19 Please unmute and begin.

20 CHRISTOPHER CHAVEZ: Yes. Good afternoon, Board
21 members. My name is Chris Chavez, Deputy Policy Director
22 at Coalition for Clean Air.

23 I'll be speaking about the light-duty programs as
24 well as a couple other issues related to the funding plan.
25 We appreciate CARB working with stakeholders to develop an

1 expansion plan for the Clean Cars 4 All Program that will
2 expand services throughout the state, while continuing to
3 prioritize disadvantaged communities.

4 Key to this is increasing the Clean Cars 4 All
5 incentive amount for residents of disadvantaged
6 communities. This way the program can expand while still
7 keeping centered on communities that need the most amount
8 of assistance transitioning to cleaner transportation.

9 CARB's vision for implementing a needs-based
10 application process is certainly laudable. And we -- but
11 in our conversations with staff, we've mentioned, you
12 know, we want to see this application process develop in
13 the public transparent process. I know that CARB is
14 moving forward with its joint solicitation, but as that
15 moves forward making sure that the program is -- or the
16 application is designed in a way that addresses community
17 needs and is compatible to current Clean Cars 4 All
18 Program is going to be important.

19 Also, in terms of looking towards expanding both
20 Clean Cars 4 All and financing assistance statewide, we
21 urge CARB to consider include and find opportunities to
22 work alongside existing community partnerships that will
23 preserve the built community capacity and knowledge.

24 I also want to agree with comments from the
25 Sacramento Air Quality Management District that we do need

1 to make sure that our mobility programs do not languish.
2 That was unfortunately, you know, a choice between two
3 very worthy programs. But going forward, we need to make
4 sure that these programs -- mobility programs do not
5 languish.

6 Lastly, you know, I think it needs to be pointed
7 out that next year's budget is starting to look rather
8 grim. We can't forget that the states often mention \$10
9 billion investment in clean transportation is a multi-year
10 funding arrangement, something that can fail to fully
11 materialize. Meanwhile, the defeat of Proposition 30,
12 spurred on by the Governor's opposition, further
13 complicates matters. And the State has chosen to forego a
14 hundred billion dollars in climate investments over the
15 next 20 years, half of which would have benefited
16 disadvantaged communities.

17 Given all of this, we urge California not to
18 renege on the promised funding in the State's prior budget
19 commitments when the going inevitably gets tough. We also
20 urge the State to continue to center its efforts on the --
21 on where the barriers to clean transportation are highest
22 in low income and disadvantaged communities.

23 Thank you for your time.

24 BOARD CLERK GARCIA: Thank you.

25 And after Colin, we will Ashley Gerrity, Chris

1 Shimoda, Tom Van Heeke, Parth Ruparel, Greg Hurner, and
2 Sasan Saadat.

3 So Colin, I have activated your microphone.
4 Please unmute and begin.

5 COLIN WILHELM: Thank you. Thank you, Board
6 members. Thank you, CARB staff, for allowing me to be
7 here. My name is Colin Wilhelm, Policy Manager of
8 Lightning eMotors, a zero-emission vehicle OEM that
9 produces Class 3 through 8 commercial electric vehicles,
10 including cargo vans, trucks -- passenger vans and trucks,
11 school buses, ambulances, and more.

12 I'm here today to join CalETC and others in
13 requesting that the Board modify the proposed funding plan
14 of the HVIP Program. First, I join in asking the Board to
15 reserve 50 percent of the funds for small fleets to
16 provide them ample opportunities to take advantage of HVIP
17 without being blocked by larger fleets.

18 Next, I join in asking the Board members to
19 remove the restrictions on fleets of 500 or more vehicles,
20 because this amounts to a practical exclusion of those
21 fleets from the HVIP Program. Although we agree that
22 large fleets might enjoy economic advantages compared to
23 small fleets, we do not agree larger fleets will purchase
24 battery electric trucks regardless of whether they receive
25 incentive support.

1 Staff assumes battery electric -- electricians have
2 achieved some level of mainstream acceptance amongst
3 larger fleets. This is simply not true. The California
4 New Car Dealer Association has released information
5 showing that when removing public agencies from the
6 equation, there are only about 600 medium- and heavy-duty
7 battery electric vehicles deployed in California. That
8 number is far from mainstream acceptance.

9 At Lightning, we see firsthand that our larger
10 fleet customers, when properly incentivized, are heavily
11 investing in the very necessary charging and grid
12 infrastructure advancements. At Lightning, we could scale
13 up to manufacturing over 2,500 -- 25,000 medium- and
14 heavy-duty vehicles a year, but that would be meaningless
15 without these needed upgraded charging and grid
16 infrastructure advancements and investments from the
17 larger fleets.

18 It's not hyperbolic to declare that reducing or
19 onerously restricting incentives available to large fleets
20 will directly lead to less investment in the needed
21 infrastructure, thereby putting the entire program's
22 mission in jeopardy. So I urge the Board to adopt the
23 CalETC's recommendations and the proposed funding plan.

24 Thank you.

25 BOARD CLERK GARCIA: Thank you.

1 Ashley I have activated your microphone. Please
2 unmute and begin.

3 ASHLEY GERRITY: Thank you. Madam Chair, Board
4 members, my name is Ashley Gerrity. And on behalf of The
5 Greenlining Institute I'm calling in to voice our support
6 for CARB's fiscal year 22-23 funding plan. Low-income
7 communities continue to bear the brunt of poverty and
8 pollution. The continued increase in gas prices are
9 impacting family budgets and this is why we ask CARB to
10 prioritize investments and incentive programs that empower
11 working families in low-income communities of color to
12 switch to electric cars, trucks, and buses that are
13 pollution free and cheaper to own and operate.

14 We appreciate CARB's commitment to invest at
15 least 70 percent of their funds to priority populations,
16 these populations being disadvantaged and low-income
17 communities. We ask CARB to go a step further and target
18 their incentive programs to the hardest to reach
19 communities, those who have seen a limited participation
20 in their programs, low-income households in disadvantaged
21 communities.

22 Currently, several of CARB's incentive programs
23 continue to only have an income require -- requirement,
24 but not a disadvantaged community requirement, reducing
25 the air quality impacts such incentives have on our most

1 polluted communities. We ask CARB to reevaluate their
2 approach and adjust and pivot them to be more intentional
3 about who is receiving those incentives and how are
4 they -- how they are providing direct and meaningful
5 benefits to the state's most impacted communities.

6 We cannot continue down this path of first-come
7 first-served incentive programs, as they are inherently
8 inequitable. We ask CARB to pivot its programs to a
9 need-based approach that targets incentives and projects
10 to those who have limited participation and access to
11 State funding and programs. With the most recent budget
12 allocations, the Governor has made it clear that we need
13 to prioritize equitable vehicle incentive programs.

14 With no new funding for CVRP, we urge CARB to
15 develop a comprehensive plan to sunset the program. This
16 plan should be developed by summer 2023 and the funds that
17 once went to CVRP should be redistributed to equity
18 focused programs that deliver equity outcomes.

19 We deeply support the development and
20 implementation of clean mobility projects. Creating
21 additional mobility options is critical to ensure that we
22 meet the needs of our communities. The clean mobility
23 programs received limited funding this year. We ask CARB
24 to prioritize these projects moving forward, including
25 advocating for more funding in future years.

1 We also support CARB's proposal to prioritize
2 small trucking fleets for incentives funds. These smaller
3 fleets are those least likely to be able to afford the
4 higher sticker prices for zero-emission trucks, so
5 incentives will help them realize the savings that
6 zero-emission vehicles offer through sharply lower fuel
7 and maintenance costs.

8 Lastly, with the significant funding available,
9 we encourage all agencies implementing clean
10 transportation and equity programs, CARB, CEC, CPUC, to
11 coordinate to help streamline the application process and
12 help deploy those technologies faster.

13 We thank you for your time and consideration.

14 BOARD CLERK GARCIA: Thank you.

15 Chris, I have activated your microphone. Please
16 unmute and begin.

17 CHRIS SHIMODA: Good afternoon, Chair Randolph
18 and Board members. Chris Shimoda with the California
19 Trucking Association. Thank you for the opportunity to
20 participate today.

21 Here to support comments submitted by a broad
22 coalition of EV manufacturers, charging providers, labor,
23 and trucking regarding HVIP. The coalition continues to
24 urge CARB not to place unreasonable restrictions on HVIP
25 vouchers for larger fleets. We submitted three

1 recommended changes in this letter.

2 First, remove the 30-truck minimum bulk purchase
3 requirement. Second, provide at least 70 percent of the
4 standard HVIP voucher rather than the 50 percent called
5 for in the funding plan. Third, given that fleets will
6 electrify first at locations with enough circuit
7 integration capacity, clarify requirements to deploy in
8 DACs. For instance, deployments in DACs could be provided
9 enhanced incentives rather than have strict requirements
10 for operation in those communities.

11 Finally, CTA continues to urge CARB to reconsider
12 implementation of strict fleet size caps in 2024. With
13 fewer than 500 of the 1.8 million trucks on the road today
14 being zero emissions, it is premature to exclude fleets of
15 any size from participating in these incentives.

16 Thank you.

17 BOARD CLERK GARCIA: Thank you.

18 Tom, I have activated your microphone. Please
19 unmute and begin.

20 TOM VAN HEEKE: Thank you. Good afternoon.
21 Thank you Chair and members of the Board for the
22 opportunity to speak today. My name is Tom Van Heeke,
23 Senior Policy Advisory at Rivian. Rivian is a
24 California-based company focused on the design,
25 development, manufacture, and distribution of all electric

1 adventure vehicles. Today, this includes our R1T pickup,
2 R1S SUV and a commercial delivery van.

3 Rivian applauds the State's preparedness to
4 invest billions of dollars in accelerating the ZEV
5 transition. We also recognize that even with this
6 commitment, in developing the funding plan, staff has
7 balanced many competing priorities and work within a
8 limited budget. It's no easy task. We appreciate the
9 hard work that went into developing the plan and we thank
10 both staff and members of the Board for your engagement
11 with stakeholders.

12 We submitted more extensive written comments
13 including on the positive changes to CVRP proposed in the
14 plan, so I'll focus here on a summary of our top line
15 concerns regarding proposed restrictions to large fleet
16 participation in HVIP. And in this, we support the
17 comments submitted earlier by CalETC.

18 The transition medium- and heavy-duty ZEVs is
19 only just beginning to take hold. We're concerned that
20 the proposed restrictions and limits that would govern
21 large fleet participation in HVIP would work against
22 CARB's goals. Cutting the voucher amount by half and
23 requiring those same entities to meet bulk purchase and
24 disadvantaged community deployment requirements introduces
25 significant barriers participation. At risk is the

1 near-term pace of ZEV uptake among larger operators, the
2 availability of used ZEV inventory a few years hence, and
3 climate and air quality benefits.

4 We respectfully urge the Board to reconsider
5 these proposed conditions. Rivian recommends applying a
6 more reasonable discount of 30 percent to vouchers for
7 large fleets and removing the bulk purchase requirement.
8 More information and analysis are also needed to support
9 the requirement that vehicles be deployed in disadvantaged
10 communities.

11 At present, it is unclear to what extent this
12 requirement would deliver superior air quality benefits
13 versus a no requirement alternative, more indeed how CARB
14 will assess compliance. We believe direct regulatory
15 approaches, including zero-emission zones and initiatives
16 like South Coast's Warehouse Indirect Source Rule are
17 likely to be far more effective in tackling the pressing
18 challenge of local air pollution and its disproportionate
19 harm to certain communities. Alternatively plusing up
20 funding for deployments in those communities would also be
21 an alternative that would make sense.

22 Thank you again for this opportunity and your
23 continued leadership in funding the ZEV transition. We
24 look forward to the plan's finalization and continued
25 discussions.

1 Thanks.

2 BOARD CLERK GARCIA: Thank you.

3 Parth, I have activated your microphone. Please
4 unmute and begin.

5 PARTH RUPAREL: I'm Parth Ruparel with ConMet
6 eMobility, part of Amsted Industries, working towards
7 electrifying trailers and trailer TRUs that are currently
8 deployed and doing food deliveries in California.

9 Firstly, thank you, Madam Chair and the members
10 of CARB for giving ConMet a chance to comment on the
11 current and wise proposals for incentive programs,
12 targeting the electrification of trailer TRUs. We really
13 appreciate the steps being taken towards adopting a
14 hundred percent zero-emission trailer TRUs so far, and the
15 fantastic amount of work required in drafting the complex
16 proposals that CARB has so far.

17 With this being said, and after speaking with
18 fleets and presenting our technology and significant
19 advantages to CARB's Carl Moyer and CORE members over the
20 past two years, we feel that the current proposals and
21 incentives program can serve a wider audience by diving
22 deeper into real-life data when it comes to goods
23 deliveries that utilize trailer TRUs and providing
24 incentives to our customers and use cases.

25 The nuances of refrigerated food and goods

1 delivery play a significant role in understanding how
2 difficult it can become to introduce 100 percent
3 zero-emission TRU technology in the trailer space. By
4 this, I mean, 100 percent electric, on-road, non-axle
5 drag, usage technology that also uses a small enough
6 battery for fleets to be able to afford in light of bigger
7 battery costs and keeping the overall gross weight lower.

8 All this, while incentives asking the fleet to
9 scrap already purchased diesel TRU units when there are
10 retrofits such as the eHub technology that is available
11 and that utilizes the diesel units without using the
12 diesel engine itself.

13 We all know that California's current
14 infrastructure cannot support battery chargers and shore
15 power installations at all the heavy-duty fleets that want
16 to utilizes zero-emissions or near-zero-emissions
17 technology, and hence incentivizing transitional
18 technologies that can utilizes an insignificant amount of
19 drag to generate on-road power is very important.

20 And so smaller fleets and disadvantaged
21 communities can afford zero-emissions and
22 near-zero-emissions tech, while making sure they're
23 participating in a healthier California and planet.

24 While understanding that opening up gates to
25 incentivize transitional tech can flood the space with

1 lots of clean technologies, having measures such as diesel
2 usage limit per year for transitional technologies can be
3 one of the great ways to ensure that everyone is involved
4 in this collective effort in sustainable fashion.

5 Having said that, we would like to request CARB
6 to work with companies such as ConMet and use the data
7 generated from real life fleet deliveries that we're
8 collecting as we speak to offer incentives that can help
9 the greatest number of fleet purchases. Fleets purchase
10 our technology as opposed to a zero percent or a hundred
11 percent ZE Trailer TRU -- TRU scrappage focused zero drag
12 incentive program that can hinder the adoption of eTRU
13 tech, that can also hinder the reduction of GHG emissions
14 in California.

15 Again, I would like to thank all the Board
16 members and implore that we can collective work on
17 real-life delivery data to offer incentives to a wider
18 spectrum of ZE near-ZE technologies and avoid future
19 revision of the regulations as much as possible.

20 Thank you.

21 BOARD CLERK GARCIA: Thank you.

22 Greg, I have activated your microphone. Please
23 unmute and begin.

24 GREG HURNER: Good afternoon, Madam Chair and
25 members. Greg Hurner on behalf ha the Sportfishing

1 Association of California and the Golden Gate Fishing --
2 Fishermen's Association.

3 As you know, commercial passenger fishing vessels
4 were making up 80 percent of the marine projects under the
5 Carl Moyer Program, but now will become ineligible for
6 that funding with the adoption of the Commercial Harbor
7 Craft Rule. However, we have worked extensively with the
8 Legislature to gain funding to Carl Moyer funding, so that
9 we can continue those emission reduct -- reduction
10 projects.

11 Staff have been working closely with us and we've
12 discussed ways where we think that we can continue those
13 emission reduction projects with the limited funding the
14 Legislature provided, but also worked with the Legislature
15 the amount of need in the commercial harbor craft area,
16 and we will continue to work on staff -- with staff in
17 those areas.

18 We also support the cost effectiveness changes
19 under the CORE Program for commercial harbor craft and
20 believe that there's some other changes that might be
21 beneficial under the CORE Program and the \$60 million for
22 harbor craft to be able to continue to do emissions
23 reductions on more vessels than were estimated. So we
24 want to continue and we hope the Board would grant
25 flexibility with -- for the staff to continue to work on

1 those types of changes.

2 Lastly, we just want -- staff have been
3 extraordinarily cooperative throughout this process and
4 very supportive in how to make sure that we utilize the
5 funding to the maximum ability possible. And we look
6 forward and thank the Board for everything that's -- that
7 we've worked with you on this past year.

8 Thank you.

9 BOARD CLERK GARCIA: Thank you.

10 After Sasan, we will hear from Natalie Nax,
11 Alexia Melendez Martineau, David Avina, Nick Russo, and
12 Graham Balch.

13 So Sasan, I have activated your microphone.
14 Please unmute and begin.

15 SASAN SAADAT: Thank you. Yeah, Sasan Saadat on
16 behalf of Earthjustice. Thank you, Chair and members of
17 the Board. I'm excited to celebrate this investment plan,
18 because it's a record down payment on getting to some of
19 the most urgent zero-emission goals and we really
20 appreciate all the ways staff have attentively
21 incorporated diverse feedback and I think they've come up
22 with a plan that manages to be inclusive, progressive, and
23 Ambitious all at once. I'll focus my comments on two
24 points related to heavy-duty funding, one in support and
25 one recommended change.

1 So first, we strongly support the proposed
2 reforms to HVIP, which function to make the program much
3 more equitable and we believe much more effective.
4 Boosting voucher amounts for the smallest fleets and the
5 set-asides for transit fleets and drayage are vital to
6 enable the vulnerable fleets to benefit the most from this
7 transition. And at the same time, staff have generously
8 extended the ability of the largest fleets to participate,
9 which we think is a good move in the year before ACF kicks
10 in.

11 But to continue receiving additional funding,
12 they have to adhere to the bulk purchase concept, which we
13 think appropriately graduates these mega fleets of 500 or
14 more trucks to pitch in some of their own private capital
15 to access HVIP funds. Large fleets will be able to access
16 the handsome 30 percent federal commercial EV tax credits,
17 which they're very well capitalize and positioned to
18 fetch. And according to Tesla's written comments, a mega
19 fleet buying 40 trucks would Get an effective per voucher
20 of -- per truck voucher of 15K. So if you stack that on
21 top of the 30 K from the IRA that's not a bad bargain for
22 a FedEx or an Amazon facing looming ACF requirements.

23 This is a good way to leverage both private and
24 public funds maximally to start moving large actors away
25 from one-off subsidized purchases towards larger

1 simultaneous orders, which is really the next step in this
2 market transition, and it will help achieve larger earlier
3 pollution reductions in disadvantaged communities that are
4 overdue for relief. So we support these very equitable
5 and strategic updates.

6 One concern we do have is that these requirements
7 are not applied in a technology agnostic manner. So large
8 fleets actually evade the purchase requirement by buying
9 hydrogen fuel cell trucks, which would be
10 counterproductive from a fleet transition standpoint,
11 since that -- that requires distinct fueling
12 infrastructure. It's a whole different, you know,
13 infrastructure they'd need to install just to continue
14 getting HVIP. Plus, fuel cells get a hundred percent
15 voucher enhancement. By contrast, placing a vehicle in a
16 disadvantaged community gets you a 15 percent voucher
17 enhancement. So even though fuel cells are really
18 expensive, we can't think of any climate or environmental
19 justice justification for offering them five times as
20 large a voucher enhancement as a vehicle gets for being
21 place in a DAC.

22 So we'd urge staff to even out those requirements
23 for fuel cells and electric trucks in the large fleets and
24 moderate that huge voucher incentive.

25 Overall though, we're really appreciative of the

1 staff for working with communities and stakeholders to
2 maximize the climate and EJ impacts of what we think is
3 really a landmark investment in cleaning up our
4 transportation system.

5 So thank you so much.

6 BOARD CLERK GARCIA: Thank you.

7 Natalie, I have activated your microphone.

8 Please unmute and begin.

9 NATALIE NAX: Hi. Good afternoon. Natalie Nax
10 on behalf the California Vanpool Authority, also known as
11 CalVans. CalVans is joint powers public transportation
12 agency that provides safe and affordable commuter and
13 farmworker vanpool services for counties across the state.
14 We pay for the cost of gas, insurance, maintenance, and
15 repairs and riders only have to pay a small fee for their
16 ride.

17 Clean mobility investments are integral in moving
18 towards a clean California. The Governor's May revise
19 recognized this need and proposed 126 million for Clean
20 Mobility Options Pilot Program. However, the Budget Act
21 of 2022 allocated 381 million for both light-duty vehicle
22 incentives and clean transportation equity incentives,
23 which left only 20 million total for CMO.

24 It was discouraging to see such a significant
25 reduction in funding for a program which would have called

1 for CalVans to transition its 800 plus fleet to zero
2 emission. This program is essential for underserved
3 communities, who have historically lacked the resources to
4 fund community needs assessments in clean shared
5 zero-emission transportation projects. We respectfully
6 urge the Board to reconsider increasing the proposed
7 allocations for CMO.

8 Thank you.

9 BOARD CLERK GARCIA: Thank you.

10 Alexia, I have activated your microphone. Please
11 unmute and begin.

12 ALEXIA MELENDEZ MARTINEAU: Good afternoon, Chair
13 Randolph, members of the Board, and staff. Thank you for
14 the opportunity to speak today and all of the hard work
15 that has gone into the development of this plan. My name
16 is Alexia Melendez Martineau, and I'm speaking on behalf
17 of Plug In America, a non-profit that represents the voice
18 of the EV consumer.

19 I'm here today to comment in support of staff's
20 recommendations in the plan on the equity and light-duty
21 investments. We support staff recommend -- staff's
22 recommendations to increase vehicle purchase incentive
23 amounts for lower income car buyers, including for prepaid
24 charging card incentives. These new changes are essential
25 to provide access for lower income consumers to purchase

1 and reliably use clean vehicles as well as experience the
2 significant benefits of these vehicles.

3 Additionally, though we expect the cost of EVs to
4 fall over time, a variety of factors has driven costs
5 higher over the past year. In June 2022, Kelley Blue Book
6 estimated that the average EV was over \$65,000, and that
7 the average EV price rose 13.7 percent from June 2021 to
8 June 2022. This made EVs cost almost \$19,000 more than
9 internal combustion engine vehicles on average.

10 Furthermore, the federal EV tax credits were
11 significantly altered. Treasury and the IRS are currently
12 working on implementing the credit, but it's current --
13 it's likely that no vehicles will qualify for the full
14 \$7,500 federal credit, which is often a significant or
15 critical factor in a consumer's decision to purchase a
16 clean vehicle. For context, robust EV incentives are
17 necessary to accelerate EV adoption, which we clearly know
18 all here today. Every \$1,000 offered as a rebate or tax
19 credit increases average sales of electric vehicles by 2.6
20 percent.

21 The changes staff proposed will help provide a
22 path to electrification for low income Californians, while
23 federal support remains uncertain. I'd also ensure that
24 communities that have been historically burdened with
25 negative climate and environmental impacts can receive the

1 significant benefits of clean transportation.

2 Additionally, given the factors noted above, Plug
3 In America supports staff's proposal on CVRP to defer
4 implementation of a second decrease to the income cap for
5 standard rebate eligibility and decrease in rebates
6 amounts initially planned for February 2023. Overall, as
7 consumer education, clarity, and certainty continue to
8 pose challenges to EV adoption, we support staff
9 recommendation to align incentives programs to make the
10 incentives easier to understand and access.

11 Thank you very much for your time and
12 consideration of our comments.

13 BOARD CLERK GARCIA: Thank you.

14 David, I have activated your microphone. Please
15 unmute and begin.

16 DAVID AVINA: Thank you. My name is David Avina.
17 I am a Pilots Manager at LACI. I'm addressing the Board
18 on behalf of the Los Angeles Cleantech Incubator. And
19 thank you for the opportunity to provide comment on the
20 fiscal year 2022-23 funding plan for clean transportation
21 incentives accompanied by the proposed Carl Moyer Program
22 changes.

23 We strongly support the proposed continued
24 investment for community identified clean mobility options
25 and urge you to approve additional funding for insurance

1 premiums. The Clean Mobility Options Projects are an
2 essential tool and equitable -- in equitably transforming
3 California's transportation system to zero emissions and
4 in order to achieve the State's air pollution and climate
5 goals.

6 LACI is working to ensure that the Los Angeles
7 region meets aggressive goals for the transition to
8 transportation electrification by 2028. Specifically, we
9 are aiming for 30 percent of all light-duty passenger
10 vehicles in the region to be zero emission and shifting
11 over 20 percent of all trips in single occupancy vehicles
12 to zero-emission public and active transit by 2028.

13 Increasing the funding for the Clean Mobility
14 Options Projects will allow each voucher awardee to focus
15 on low-income, vulnerable, and disadvantaged communities.
16 The CARB -- the CARB-required insurance coverage is
17 negatively impacting the ability to serve the most
18 vulnerable to climate change. It has been LACI's
19 experience that the insurance premium costs dramatically
20 cut into the provided voucher amount. The CARB CMO Rancho
21 San Pedro eBike Library annual insurance premium is
22 \$60,000 for a fleet of 20 eBikes. This is over 75 percent
23 of the operating budget for a two-year program.
24 Ultimately, insurance cost is a barrier to implementing a
25 sustainable and scalable solution.

1 We strongly urge you to support the funding plan
2 for the clean transportation incentives, with the proposed
3 amendments addition for additional funding to cover the
4 costly insurance premium. And we stand ready to work with
5 you to ensure that success of the Clean Mobility Options
6 Projects and a zero-emissions future.

7 Thank you.

8 BOARD CLERK GARCIA: Thank you.

9 Nick, I have activated your microphone. Please
10 unmute and begin.

11 NICK RUSSO: Hi there. My name is Nick Russo and
12 I am addressing the Board on behalf of Pedal Movement,
13 where I serve as President of operations. I get to work
14 closely with David, who you just heard from. So I thank
15 you for the opportunity to provide comment on this funding
16 plan and for all of the work that goes into making these
17 programs successful.

18 Pedal Movement is a small business headquartered
19 in Long Beach, California within and in close proximity to
20 some of the most negatively impacted communities in the
21 region, when it comes to air quality. We provide an eBike
22 share and eCargo Bike Share Program called Good To Go
23 Bikes with funding from a CMO grant in San Pedro,
24 California in collaboration with LACI, the Los Angeles
25 Cleantech incubator, as well as the staff and residents of

1 the Housing Authority of the City of Los Angeles in the
2 Rancho San Pedro development. In addition, we also
3 operate the City of Long Beach's Bike Share Program and
4 provide educational resources to our communities around
5 bicycling and transportation.

6 We aim as a private business to provide career
7 opportunities in the green economy while transforming the
8 way that people move about their communities by enabling
9 more people to access alternatives to internal combustion
10 engine vehicles and single occupancy vehicles.

11 Similarly, we strongly support the continued
12 investment in community identified Clean Mobility Options
13 Projects and urge you to approve additional funding again
14 specifically to cover insurance premiums. As David
15 mentioned, Clean Mobility Options Projects are key to
16 transforming and improving both California's Air quality
17 as well as California's innovation in the ways to get to
18 improving air quality and environmental impacts.

19 So increasing the funding for Clean Mobility
20 Options Projects will allow each voucher awardee to focus
21 on low-income, vulnerable, and disadvantaged communities.
22 Unfortunately, we've discovered that the insurance
23 coverage required by CARB is negatively impacting the
24 ability to serve the most vulnerable to climate change.
25 Because the shared micro-mobility industry is so new and

1 so innovative, insurance carriers who are willing to
2 provide the required coverage are severely limited in
3 their number, and therefore able to charge much higher
4 premiums as David mentioned previously.

5 So we strongly urge you to support the funding
6 plan for Clean Transportation Initiatives with the
7 proposed amendments for funding to cover the costly
8 insurance premiums and we stand ready to work with you to
9 ensure the success of the CMO projects and a
10 zero-emissions future.

11 Thanks for your consideration and we look forward
12 to working with CARB.

13 BOARD CLERK GARCIA: Thank you.

14 And after Graham, we will hear from Matt Schrap,
15 LaDonna Williams, Ivana Munguia, Omar Gonzales, and
16 Michael Sigala.

17 So Graham, I have activated your microphone.
18 Please unmute and begin.

19 GRAHAM BALCH: Hi. Green Yachts converts marine
20 vessels from diesel to zero-emission electric platforms
21 and applauds the efforts of the California Air Resources
22 Board to fund clean transportation initiatives. CARB has
23 historic -- has a historic opportunity to create a new
24 funding paradigm for marine zero-emission projects with
25 the \$60 million dedicated to marine zero-emission

1 projects.

2 To date, CARB efforts to adapt funding programs
3 designed for diesel to diesel repowers, such as Moyer, and
4 land-based clean equipment programs, such as CORE, hasn't
5 worked the way CARB wants them to when applied to marine
6 zero-emission projects.

7 The five keys to effective funding marine
8 zero-emission repowers are: due to the 10X cost difference
9 of a zero-emission versus diesel repower, understand that
10 for a vessel operator who has 50 percent of a
11 diesel-to-diesel repower funded by Moyer, 94 percent
12 funding of a zero-emission project is needed for the
13 out-of-pocket costs to be the same for the vessel
14 operator.

15 Two, a funding formula for marine zero-emission
16 projects based on the size and scope of the conversion, as
17 well as the distance traveled, should replace Moyer's
18 surplus emission funding. Funding based on surplus
19 emissions, eliminates funding for vessels with
20 zero-emission requirements, such as the short-run ferries.

21 Three, eliminate the use of the word "hybrid" and
22 the outdated thinking behind it. Instead, differentiate
23 between internal combustion engine platforms and
24 zero-emission platforms. This is a paradigm shift from
25 today, in which CARB uses the word hybrid for both

1 internal combustion engines with an electric assist and
2 zero-emission platforms with an auxiliary generator.
3 Zero-emission platforms allow renewable energy technology
4 to easily be swapped in as it evolves. Internal
5 combustion engine platforms with an electric assist do
6 not.

7 Four, provide milestone base funding instead of
8 end-of-project lump sum funding. Lump sum awards work for
9 a three-month, \$300,000 diesel conversion, but not for a
10 four-year had \$4 million zero-emission conversion.

11 Five, create equitable access for vessel
12 operators in disadvantaged communities, minority and women
13 led operations, and SBA classified microbusinesses by
14 funding the required U.S. Coast Guard design review and
15 approval of a zero-emission conversation for these
16 operators. The U.S. Coast Guard design review takes two
17 years on average and costs \$400,000 before equipment can
18 be ordered and a zero-emission project can begin.
19 Disadvantaged and small operators cannot complete the U.S.
20 Coast Guard design review and have equitable access to
21 zero-emission repowers without financial assistance.

22 We want marine zero-emission projects to succeed
23 in California and set an example for how it should be
24 effectively and equitably done in the other 49 states and
25 countries around the world. To do this, CARB needs new

1 approaches to marine zero-emission project funding. We
2 stand ready to help CARB think about this any time in
3 order to help California decarbonize the marine sector.

4 Thank you.

5 BOARD CLERK GARCIA: Thank you.

6 Matt, I have activated your microphone. Please
7 unmute and begin.

8 MATT SCHRAP: Thank you, Madam Chair and Board
9 Members for the opportunity to comment here today. My
10 name is Matt Schrap. I am the CEO of the Harbor Trucking
11 Association. We are a non-profit association representing
12 motor carriers who move most of the containerized cargo
13 coming to and going from maritime ports in California.
14 Our memberships includes some of the largest truck fleets
15 in North America, as well as many small fleet operators,
16 all of whom are critical to the efficient movement of
17 goods within the international supply chain.

18 I am here before you today to continue to request
19 increased funding for truck procurement and infrastructure
20 deployment for drayage operators of all sizes in order to
21 help drive adoption of zero-emission technology within
22 this sector, especially since the first requirements of
23 the Advanced Clean Fleets Rule beginning in just over 13
24 months from now are targeted at drayage operators, which
25 includes, small, medium, and large fleets operating at

1 cargo facilities in California.

2 We are also here to express support for the
3 comments of a diverse coalition of stakeholders, some of
4 which you have heard from today, made of truck OEMs,
5 charging providers, labor, industry, and business groups,
6 including the International Brotherhood of Teamsters,
7 California Trucking Association, and Harbor Trucking
8 Association. As included in the written comments
9 submitted to the Board, the coalition is imploring CARB to
10 move away from the unreasonable restrictions on HVIP
11 vouchers for fleets of 500 or more, especially since these
12 fleets are critical in populating a secondary marketplace
13 for used vehicles within the drayage sector.

14 Any funding restrictions for fleets of this size
15 should be limited to no more than 30 percent of voucher
16 amounts and be coupled with the removal of the 30-vehicle
17 minimum bulk purchase requirement for battery electric
18 drivetrains. These modest changes will undoubtedly result
19 in increased deployment of commercially available ZE
20 technology, since contrary to staff's assertion fleets of
21 this size will not likely be motivated to adopt advanced
22 technology ahead of regulatory requirements without
23 meaningful incentive support. The up-front costs are
24 still too prohibitive regardless of fleet size.

25 Furthermore, as consistent with CARB's data on

1 voucher demand, the coalition is also recommending that
2 the funding plan reserve no more than 50 percent of
3 standard voucher funds for fleets with a hundred vehicles
4 or less. While it's important to provide enhanced --
5 enhanced access to smaller fleet operators, a 50 percent
6 set-aside will provide ample opportunity for small fleets
7 to take advantage of HVIP as it exceeds the overall share
8 of vouchers that small fleets had requested in 2021 and
9 2022.

10 HTA and our coalition partners feel that these
11 reasonable change requests will result in increased
12 deployment opportunities for fleets of all sizes and it
13 will assist in moving us closer to the State's goal of 100
14 percent drayage operations in 2035. With less than 50
15 zero-emission vehicles operating out of over 200,000 who
16 are registered to do business in ports and intermodal
17 railyards here in California, there is clearly a massive
18 need for increased incentives, as ZEV vehicles can cost in
19 excess of \$500,000 and infrastructure for the 75 percent
20 of drayage users who rely on public facing infrastructure
21 is non-existent.

22 We appreciate the opportunity to comment here
23 today and look forward to further engagement.

24 Thank you.

25 BOARD CLERK GARCIA: Thank you.

1 LaDonna, I have activated your microphone.
2 Please unmute and begin.

3 LaDONNA WILLIAMS: Good afternoon. LaDonna
4 Williams All Positives Possible.

5 First, I want to say thank you to CARB for your
6 blood-curdling alarm and thank you to TikTok, because it
7 has forced us to learn how to get to the point, because we
8 all got the attention span of a gnat these days.
9 Everything is quick, quick, quick, rapid-fire talking, and
10 I wonder how much do you guys listen.

11 And I'm glad to say the response from CARB staff
12 I do want to appreciate that. I really almost didn't give
13 a comment today because I was pissed about the last minute
14 notification to be able to go through so much material in
15 so little time, but I do want to commend them that they
16 have listened to us, particularly when it has come to
17 Black communities, African American communities that has
18 continued to be the least funded and least supported.
19 They've heard us. I see it in the documents. You're
20 listing it, but the angel is in the details. And I
21 haven't yet been able to grab a clear understanding of
22 what it is, but it looks like you're making an honest
23 attempt, so that I commend you.

24 But when I'm looking at the price increases -- or
25 the voucher incentive increases, I just want to be sure

1 that you're also recognizing there needs to be some
2 restriction in place that these dealerships, once they get
3 the cars, because we've been looking in so far, they don't
4 have them, but they're not able to increase their price
5 that will offset any benefit that our low-income
6 communities would get out of this.

7 And also, I want to caution the City of Richmond,
8 because we're in Richmond and any of these other large
9 entities who claim to speak on our behalfs about the
10 changes that our lives are receiving through programs that
11 they're just now admitting they're engaging in, I say talk
12 directly to the impacted residents, because these services
13 are still not available in the lowest, poorest, most
14 vulnerable areas, which is what you are committing to
15 outreach to and including, but will yet -- we have yet to
16 see how this is going to actually be executed.

17 And especially when it comes to eBikes, that so
18 many could have benefit of, they're yet not seeing the
19 benefits or the availability of these types of
20 opportunities and services in their areas. And we will
21 commit to working with CARB and stay invested in this
22 process. But in the end, we want to see some real
23 benefits to our communities that have been left out for
24 all these years -- these last 12 years and now you're
25 trying to catch up to speed, we want to be sure that the

1 intermediaries and these other folks that are now using
2 environmental justice to put themselves in the forefront
3 gobbling up these funds don't happen, that it actually
4 comes to our communities and our groups that need this
5 support the most.

6 Thank you.

7 BOARD CLERK GARCIA: Thank you.

8 Ivana, I have activated your microphone. Please
9 unmute and begin.

10 IVANA MUNGUIA: Hello, everyone. My name is
11 Ivana Munguia, the Thai Community Development Center's
12 Outreach Specialist. Thai CDC is part of BlueLA's
13 steering committee. The steering committee's outreach
14 specialists work with the program team including mobility
15 development partners to spread the word about BlueLA and
16 gather feedback from the community about station
17 expansion.

18 As part of Thai CDC, my outreach work focuses on
19 the disadvantaged communities -- community members living
20 in East Hollywood, which includes Thai, Latinx and
21 Armenian residents. Thai CDC is a community-based
22 organization that has been serving low-income communities
23 for almost 30 years addressing the need for housing, food,
24 health care, education, legal, and social services,
25 advocacy, and economic opportunities. We were also behind

1 the successful campaign to designate East Hollywood as
2 Thai Town.

3 Our outreach in East Hollywood -- in the East
4 Hollywood area for BlueLA has included tabling at our
5 COVID vaccination clinic and our East Hollywood certified
6 farmers market, both of which are located at the Hollywood
7 and Western Metro Portal Plaza, reaching disadvantaged
8 residents in the area who come to our clinic and/or shop
9 at our farmers market.

10 We also perform outreach at other community
11 events hosted by different council offices at colleges and
12 universities and to other non-profit community-based
13 organizations, while also canvassing at affordable housing
14 units. All of these outreach efforts has generated more
15 engagement between BlueLA and the communities that Thai
16 CDC serves, as well as the community serves by other
17 institutions and organizations in Los Angeles.

18 The excitement and interest shown by the -- by
19 many of the individuals that I have engaged with -- engaged
20 with has demonstrated how a program like BlueLA has the
21 ability and potential to help community members who simple
22 do not have access to a vehicle with mobility.

23 We are in urgent need of support to expand the
24 program throughout our region and California. We're
25 encouraged to see a boost to the of capacity building

1 allocation this year and ask CARB to consider advancing
2 these funds quickly, so that we can support CARB's
3 continued deployment of these programs.

4 In order to increase this kind of mobility
5 throughout Los Angeles, there must be investments in
6 capacity building for BlueLA.

7 Thank you for providing us with the opportunity
8 to submit comments and for CARB's ongoing support.

9 BOARD CLERK GARCIA: Thank you.

10 Omar, I have activated your microphone. Please
11 unmute and begin.

12 OMAR GONZALES: Good afternoon Chair Randolph and
13 members of the board. My name is Omar Gonzales calling on
14 behalf the Nikola Corporation. Nikola is a technology and
15 compliance solution provider manufacturing heavy-duty
16 battery electric vehicles, fuel cell electric vehicles,
17 and developing the entire hydrogen ecosystem.

18 We're currently in production of our battery
19 electric Class 8 day cab, the Tre BEV, which is listed on
20 the HVIP catalogue and has a range of up to 350 miles.
21 And we will begin production of our Class 8 fuel cell
22 electric day cab truck in 2023 which will provide a range
23 of up 500 miles.

24 First, we'd like to echo comments from other
25 stakeholders calling for the removal of the fleet size

1 limits, bulk purchase requirements, and voucher reductions
2 for large fleets. In short, Class 8 ZEVs are dependent
3 upon incentives to achieve diesel TCO parity. Small- and
4 medium-sized fleets are often dependent upon large fleet's
5 adoption of ZEVs to support TCO competitiveness and large
6 fleets can make a bigger impact in reducing emissions.

7 Next, we encourage the Board to consider
8 bolstering fuel cell investments. Forty-eight BEV Class 8
9 buses -- 48 Class 8 buses and trucks are currently
10 available on the HVIP eligibility list. Manufacturers
11 such as Hyzon and New Flyer already have fuel cells that
12 are HVIP eligible. And Hyundai and Nikola plan to have
13 fuel cell day cabs HVIP eligible by 2023.

14 Given the current availability of Class 8 BEV
15 vehicle models, but nascent availability of fuel cell
16 modes in the HVIP program that would meet various fleets
17 operational requirements, Nikola encourages the continued
18 incentivization, including both the hundred percent
19 modifier and fleet size exemptions of fuel cell Class 8
20 vehicles through HVIP for an equivalent amount of time or
21 for an equivalent amount of vehicles incentivized as BEV
22 Class 8 vehicles have been able to secure through HVIP
23 program to date.

24 California has led the way in ZEV purchase
25 programs and now is the time to create fuel cell

1 carve-outs in HVIP and Carl Moyer Program and to ensure
2 equitable funding availability for the market maturation
3 of fuel cells as economic alternatives to BEV vehicles,
4 particularly for fleets that have operations that make
5 adoption for BEVs impractical or uncompetitive.

6 This program so popular that with 430 million
7 available in March 2022, it was almost immediately
8 oversubscribed in the area needed most, drayage trucks.
9 However, various fleets in the medium- and heavy-duty
10 trucking industry will struggle to adopt BEVs into their
11 operations. Similar to other set-asides, a fuel cell
12 set-aside for trucks and buses would ensure funding
13 availability for these hard-to-decarbonize fleets and
14 would send the right market signals to manufacturers for
15 further technology development, especially to address long
16 haul trucking.

17 Additionally, the set-aside could be leveraged
18 for California's public-private partnership effort ARCHES
19 being coordinated by GO-Biz to secure match funding for
20 the U.S. Department of Energy for the development of
21 California's hydrogen economy, thus contributing
22 additional funding to CARB's efforts to phase out
23 emissions from medium- and heavy-duty transportation.

24 Thank you to CARB staff for their work on the
25 funding plan and for the Board's leadership on this issue

1 and consideration of our comments.

2 BOARD CLERK GARCIA: Thank you.

3 Lastly, we will hear from Michael Sigala.

4 Michael, I have activated your microphone. Please unmute
5 and begin.

6 MICHAEL SIGALA: Hello. Thank you. Thank you,
7 Board. Michael Sigala here, Board President of the San
8 Joaquin Valley community shared mobility non-profit doing
9 business as Miocar. Miocar is one of the founding
10 investments from CARB and includes partners such as the
11 Air District, MPOs, UC Davis, and many others. The
12 program provides car sharing to low-income rural
13 communities and we have a fleet of electric vehicles
14 stationed at affordable housing developments throughout
15 the San Joaquin Valley.

16 Post-COVID, we are experience an -- experiencing
17 an uptick in demand. Implementing this transformational
18 pilot program as a purpose built non-profit has been
19 rewarding as it has proven to be difficult. For example,
20 finding capital to purchase electric vehicles, then
21 waiting sometimes over nine months to be reimbursed from
22 CARB is very challenging.

23 Miocar is well equipped to deliver cost-effective
24 results for disadvantaged communities, both through
25 multiple STEP and CMO voucher rewards and through support

1 of partner agencies like CEC, but investment and capacity
2 building is critical at this time.

3 As you noted in the lessons learned, we support
4 ongoing targeted and dedicated resources to rural
5 disadvantaged communities, particularly in non-attainment
6 areas like the San Joaquin Valley. We are in urgent need
7 of support to expand the program throughout our region and
8 California. We are encouraged to see funding for capacity
9 building this year and ask CARB to consider advancing
10 these funds quickly.

11 Another way CARB can help non-profits like ours
12 and like Green Raiteros, for example, is by assisting us
13 in establishing strategic partners in the automobile and
14 EV industries. This would also help us achieve
15 self-sufficiency and better serve disadvantaged
16 communities throughout California. Thank you for your --
17 thank you for the opportunity to provide comments and for
18 your ongoing support.

19 BOARD CLERK GARCIA: Thank you.

20 And that concludes the commenters for this item.

21 CHAIR RANDOLPH: All right. Thank you.

22 Staff, are there any issues raised in the
23 comments that you want to address before I close the
24 record?

25 MSCD DIVISION CHIEF VERGIS: Yes. Thanks you,

1 Chair and members. Sydney Vergis again, Division Chief.

2 So two factual corrections I would like to make.

3 So we heard a lot of numbers about the number of
4 zero-emission medium- and heavy-duty vehicles that are on
5 the road today. Just for your reference, there are 1,923
6 zero-emission trucks and buses on the road. There are, of
7 course, a lot of ways to cut that data, so this is as good
8 a time as any to mention that today CARB unveiled a
9 first-of-its-kind medium- and heavy-duty zero-emission
10 dashboard that combines data from all of our incentive
11 programs into one place, so VW, Carl Moyer, CAPP, HVIP,
12 all in one place, so a fun dashboard for you to play with.

13 The other thing is we heard some confusion from
14 stakeholders about Board flexibility for moving funds. To
15 be clear, the Board does not have discretion to move funds
16 between the heavy-duty pot of funding and the light-duty
17 pot of funding. That was established by the Legislature.

18 Slide 12 in the staff presentation has a lot of
19 great detail on that, if you'd like a visual reference.

20 Thank you.

21 CHAIR RANDOLPH: All right. Thank you. I will
22 now close the record on this agenda item.

23 And Dr. Sperling.

24 BOARD MEMBER SPERLING: Thank you very much.

25 So, you know, it's really impressive how much

1 funding is now available. You know, having been on the
2 Board for a while, we didn't used to have money -- much
3 money to be spending and allocating. So it's a -- it's a
4 great opportunity, but it's also a great responsibility.

5 So I just wanted to -- okay. So the last -- this
6 morning, I came up with ideas of how to make work easier
7 for Dr. Vergis and her team. Now, I have an idea for how
8 to make more work for them. So this is a question of we
9 as a Board member, it's almost impossible to really make
10 any judgments about this spending plan, I think. You
11 know, there's -- you know, we're not -- you, the staff, is
12 the expert on this, is talking to others. The Board is
13 just, you know, at a high level. But then we come in and
14 we know a lot of the funds are already allocated, you
15 know, by the Legislature, directed by the Legislature to
16 particular programs, and there's various other
17 constraints.

18 But having said all that, given that this is so
19 much funding, and given -- you know, I think we have a
20 real responsibility here to be a little more rigorous in
21 evaluating them, even though I appreciate, one, you know,
22 there's a lot of constraints in how the money is spent,
23 and two, there's -- its -- it is difficult to do real
24 evaluations. But I think the money has gotten so large
25 and we pride ourselves on being a science-based, databased

1 organization.

2 So I think I'd like to encourage going forward
3 more of an effort at evaluating these different programs
4 and funding. And I know it's hard. You know, I just --
5 just this minute, I was sitting down, okay, what are the
6 challenges? Okay. You know -- you know, there's cases
7 where these are pilot projects, and so, you know, how do
8 you evaluate the benefit -- you know, the cost
9 effectiveness of a pilot project? Some of the projects
10 are infrastructure, so there's essentially no emission
11 benefits.

12 So there's a lot of reasons why it's difficult,
13 but yet, you know, I look -- the staff did -- you know,
14 when I mentioned to this -- this to the staff, they say,
15 well, we do evaluate it and pointed me to appendix H
16 buried in the report. And you look at that and the
17 numbers are -- so these are cost effectiveness analyses.
18 The numbers are all over the place. You know, they range
19 from -- I'm just looking at it now for criteria
20 pollutants, you know, everywhere from 29,000 up to -- up
21 to four mill -- you know, \$5 million per ton. And on GHG,
22 it ranges all the way from \$350 up to, you know, \$67,000
23 per ton.

24 And these numbers are all, you know, way above
25 what you would normally think is the threshold. So even

1 in the -- this morning, when we had in the staff report,
2 the estimate was that the ben -- the -- in terms of
3 benefit -- the cost effectiveness was \$22,000 per ton for
4 criteria pollutants. So that seems to be these days about
5 where the threshold is about where you want to invest in
6 pollution reduction.

7 So these numbers are way higher, every one of
8 them. And so I guess I'm saying I know, there's
9 explanations as I was just noting a moment ago. But if
10 we're going to -- and I know there's constraints, but we,
11 the staff, and now the staff actually is proposing that
12 the Executive Officer will be making more decisions on
13 funding as well, it seems like we should be putting more
14 effort into doing some kind of cost effectiveness analysis
15 in evaluation of these programs. And a lot of these we
16 haven't done much before. And so I know we don't have a
17 lot of experience in it, but I just make that suggestion
18 going forward, putting more resources, more effort into
19 making it a little more science based.

20 And again, I know there's different goals.
21 There's CO2 benefits. There -- you know, there's
22 co-benefits. There's CO2 benefits. There's criteria
23 benefits. There's EJ benefits. So I'm not discounting
24 it, but I just think that's an important -- important for
25 this agency to be doing more of in the future, and

1 especially in this case with the incentives where -- where
2 there is a lot of money and we do have some amount of
3 discretion in how to spend it.

4 And now, I have a course to teach and my TAs are
5 all on strike, so I've really got to get there, 175
6 students. So I appreciate, you know, unions and striking,
7 but in my particular case --

8 BOARD MEMBER BALMES: He actually has to work
9 now.

10 (Laughter).

11 BOARD MEMBER SPERLING: So they're worth -- I
12 have come to appreciate they're worth the money they're
13 paid --

14 BOARD MEMBER TAKVORIAN: And more.

15 BOARD MEMBER SPERLING: -- and more.

16 CHAIR RANDOLPH: Thank you, Dr. Sperling. Are
17 you -- so you're done?

18 BOARD MEMBER SPERLING: Yes.

19 CHAIR RANDOLPH: Okay. All right. Thanks.

20 I just wanted to clarify one thing about cost
21 effectiveness. Based on that presentation, that \$22,000
22 was like a strikingly low cost effectiveness amount and it
23 was -- and in the Moyer changes, we were actually
24 increasing the cost effective for zero-emission, because
25 we recognized that that cost more and that is a value that

1 we have to get those reductions in zero-emission
2 equipment, and we want to ensure a higher cost
3 effectiveness amount.

4 So I guess I would just sort of emphasize the
5 latter part of what you said, which is there's a lot of
6 different values we're trying to solve for, and no one
7 single cost effectiveness number is the right number.
8 More analysis is always good, but we do need to recognize
9 that we are -- we are solving for several different
10 problems with these programs.

11 Okay. That was my editorial comment as you head
12 off to class.

13 BOARD MEMBER SPERLING: To be my -- to
14 proselytize to my students. But, yes, you know, you're
15 exactly right. And that's why I say, it is hard to do,
16 but yet, how do we make decisions? And having somewhat
17 more quantitative framework has to be helpful.

18 CHAIR RANDOLPH: All right. Okay. Thank you.
19 All right. Board Member Riordan.

20 BOARD MEMBER RIORDAN: Yes. Thank you, Madam
21 Chair. To the staff, it's never easy to make
22 recommendations on the disbursal of money, so understand
23 that.

24 Going beyond that though, I need a bit of a
25 clarification. One of the early speakers was speaking

1 representing, I believe, the waste management type of
2 trucks that we have in and around our communities. And he
3 talked about the ability to distinguish -- you may be
4 domiciled where else, but you're serving many of the
5 impacted, overburdened, low-income communities as you pick
6 up the trash weekly. And I wanted to be sure that if what
7 he was saying was accurate or if there was a way to
8 recognize that, yes, they're kept in a yard that probably
9 isn't in that community necessarily. In fact, you
10 wouldn't want them in some of the residential communities,
11 but they serve the community. Could you help me with that
12 distinguish that for me?

13 MSCD INNOVATIVE STRATEGIES BRANCH CHIEF

14 CHRISTENSEN: Yes. Thank you. And I'd like to get
15 started with that. Peter Christensen MSCD.

16 The -- I believe that the speaker was referencing
17 the disadvantaged community requirements for the very
18 large fleets --

19 BOARD MEMBER RIORDAN: Right.

20 MSCD INNOVATIVE STRATEGIES BRANCH CHIEF

21 CHRISTENSEN: -- those of over 500 vehicles in California.

22 BOARD MEMBER RIORDAN: Um-hmm.

23 MSCD INNOVATIVE STRATEGIES BRANCH CHIEF

24 CHRISTENSEN: And that is a provision that only applies to
25 those very large fleets. And the intent there is that

1 we're focusing our limited dollars, especially in the
2 communities that need those reductions the most, in the
3 disadvantaged communities. So for a very large fleet --
4 remember this is at least 500 vehicles, and for a fleet
5 that has multiple locations in California, the intent
6 there is to say, okay, let's focus on the fleets that are
7 in this disadvantaged community and provide that funding
8 there so we're maximizing the benefits in disadvantaged
9 communities.

10 HVIP as a whole has been very successful. About
11 two-thirds of the funding in the program has benefited
12 disadvantaged communities. But this is a unique provision
13 that only applies to the very large fleets, partly because
14 they tend to have multiple locations, and again we want to
15 focus those benefits in the disadvantaged communities.

16 BOARD MEMBER RIORDAN: Well, is there something
17 that though -- would that qualify -- would that be a
18 qualifier for that advantage to the large fleets to say,
19 okay, we're not necessarily housed there, but we service
20 the whole -- you know, we service that area, so we are
21 essentially providing better air quality in those areas by
22 utilizing electrified trucks.

23 MSCD INNOVATIVE STRATEGIES BRANCH CHIEF
24 CHRISTENSEN: Yeah, and I think that gets to part of the
25 implementation challenge. Part of the -- one of the

1 guiding principles of HVIP is that it's a simple program.
2 It's simple to access, simple to understand, simple for
3 fleets and dealerships to -- you know, to understand what
4 funding is available.

5 BOARD MEMBER RIORDAN: Um-hmm.

6 MSCD INNOVATIVE STRATEGIES BRANCH CHIEF

7 CHRISTENSEN: In terms of looking at a particular truck
8 and the particular route that that truck would be serving,
9 it's pretty challenging to figure out a mechanism that
10 tracks that truck throughout its useful life and
11 determines where it's moving. The technology is there,
12 but connecting that to the funding is a challenge.

13 What tends to happen, especially in larger
14 fleets, is that a particular truck or a particular bus is
15 going to serve multiple routes throughout its lifetime.

16 BOARD MEMBER RIORDAN: Right.

17 MSCD INNOVATIVE STRATEGIES BRANCH CHIEF

18 CHRISTENSEN: It's not always going to be operating in a
19 disadvantaged community. It's going to operate in one in
20 one day, and then on another day, it's going to -- it's
21 going to move to a different route. So in terms of kind
22 of sticking to that guiding principle of keeping it simple
23 in HVIP, we do think that it's important to identify if
24 the truck is based in a disadvantaged community, we know
25 that it's going to be starting and finishing its day in

1 that disadvantage community.

2 BOARD MEMBER RIORDAN: Okay. I think there's an
3 issue there. I mean, I -- I'm going to let you all figure
4 that out, but, you know, let's it's domiciled there in the
5 disadvantaged community, leaves that community and spends
6 the entire day outside, and never really -- short of let's
7 say two or three miles in the disadvantaged community
8 where the trash truck every -- you know, they would have
9 to calculate it and you'd have to verify it, but I will
10 leave that to you. That's going to be for you to
11 implement.

12 CHAIR RANDOLPH: Can I ask a follow-up question
13 about that same topic. So can you just clarify exactly
14 what domiciled means in the context of a company that may
15 have a headquarters and then several different places
16 where they have their trucks.

17 MSCD INNOVATIVE STRATEGIES BRANCH CHIEF
18 CHRISTENSEN: Yeah, domiciled refers to where the truck is
19 based. Usually, if it's returning to a base every night,
20 it's the location, it's the yard where that truck parks
21 overnight.

22 CHAIR RANDOLPH: Right. So if you are -- if the
23 truck is domiciled in the disadvantaged community, it may
24 be coming and leaving from that community. So you know if
25 it's domiciled in that community, that there is a truck

1 operating in a disadvantaged community. And it's that
2 next level of information that would be more challenging
3 to obtain, which is it leaves the yard and where exactly
4 is it going.

5 MSCD INNOVATIVE STRATEGIES BRANCH CHIEF

6 CHRISTENSEN: Exactly.

7 CHAIR RANDOLPH: Okay. All right. That's
8 helpful.

9 Supervisor Serna.

10 BOARD MEMBER SERNA: Thank you, Chair.

11 I was hoping that staff -- I'm not sure who's
12 most appropriate to respond here, but hopeful that staff
13 can help me understand the issue that was raised by Sac
14 Metro Air Quality Management relative to what they were
15 referring to as equity-focused projects, and kind of
16 the -- a mysterious accounting according to them of \$60
17 million that is now unavailable, I guess, for those
18 projects. And I think they prefaced it with this is
19 some -- you know, a decision that was largely or perhaps
20 entirely made at the Legislature. But maybe someone could
21 help me understand how that shift occurred or why.

22 MSCD INNOVATIVE LIGHT-DUTY STRATEGIES INCENTIVES

23 SECTION MANAGER MACUMBER: Yes. Hi. Lisa Macumber with
24 MSCD.

25 The -- what they're referencing is the difference

1 between the Governor's proposed budget and what ultimately
2 happens at the Legislature with the final State budget.
3 So the original Governor's proposed budget did have a
4 larger allocation in the mobility pot of about \$60
5 million. And the final budget was about \$60 million less.
6 And that \$60 million really affected a whole suite of
7 project. It affects our Financing Assistance Program,
8 eBikes, the Clean Mobility Options Program, our STEP
9 Program, pretty much everything outside of Clean Cars 4
10 All.

11 So what we did was we took the allocation that
12 they provided us and we divided that amongst the programs
13 in a way that we felt could meet the need over the next
14 year recognizing that it wasn't as much as we had expected
15 and what we had been planning for with the stakeholders.

16 BOARD MEMBER SERNA: So in terms of again
17 referring specifically to the local air district here in
18 Sacramento, and having been very involved in some of the
19 community clean car rental programs that are occurring in
20 places like South Sacramento, is there an opportunity this
21 fiscal year to look at other resources to make sure that
22 they are at least on life support until the next budget?

23 MSCD INNOVATIVE LIGHT-DUTY STRATEGIES INCENTIVES
24 SECTION MANAGER MACUMBER: Absolutely. The funding that
25 we've allocated or that we're proposing to allocate within

1 this plan does include \$20 million towards the Clean
2 Mobility Options Program, of which about half of that or
3 so will be to support the existing projects on the ground.
4 And the remainder will be for another window of
5 opportunity for the districts and other entities to
6 compete for their -- for their projects. So there will be
7 funding available for this year.

8 BOARD MEMBER SERNA: Okay. Great. Thank you.

9 CHAIR RANDOLPH: All right. Dr. Pacheco-Werner.

10 BOARD MEMBER PACHECO-WERNER: Thank you so much
11 to the staff. I mean this is -- this is so incredible in
12 terms of the historic investment we'll make today in
13 California, and that I hope, you know, will make it to
14 those disadvantaged communities and provide that change in
15 their daily lives.

16 I wanted to echo Dr. Sperling's comments around,
17 you know, how we can get or invest through other ways,
18 getting data back about some of the programs and some of
19 what we're seeing and really understanding more the gaps
20 that we continue to see.

21 And I really wanted to emphasize that one of the
22 things that I feel like we want to understand -- I would
23 like to understand more is as we begin to change the way
24 that we have the funds between the State and the district
25 on the -- on the incentives that we -- that we understand

1 how the Clean Cars 4 All allocations -- you know, kind of
2 like how that program is going and how the -- how we're
3 being able to distribute, and also if there are any gaps
4 in the priority populations, which we want to target with
5 some of these funds.

6 And so I would like to see that, especially as we
7 embark on this new way of doing this. And also, I -- you
8 know, I really thank you for thinking through so thorough
9 around how to embed in each and every one of these
10 programs that prioritization of these disadvantaged
11 communities. One of the things that's out of our control,
12 but that I hope maybe we can talk about and elevate to
13 part of the State discussion is really my concern with the
14 phasing out of the plug-in hybrids in the CVRP program.

15 And the reason that I say that is that because
16 large families still need those options that aren't really
17 available in other types of vehicles yet and -- or to the
18 degree that they can afford them. And so I'm -- I'm
19 talking specifically about large vehicles, you know,
20 seven-passenger vehicles that families here in the San
21 Joaquin Valley regularly need to move around, that
22 farmworkers use to move themselves, and their -- and their
23 neighbors around to work. And so some of that I'm still
24 not seeing being available as much in the market, and yet
25 the phasing out of that incentive is going to -- going to

1 leave those folks out. And so I just -- I know that's a
2 legislative deal, but I would want us to think about
3 elevating that issue. Thank you.

4 MSCD INNOVATIVE LIGHT-DUTY STRATEGIES INCENTIVES

5 SECTION MANAGER MACUMBER: Great. Thank you. Lisa
6 Macumber. I can comment on both of those points that
7 you've made. With regard to the data and making sure that
8 the data is available, you know, a lot of these projects
9 have been - I think, you guys have heard - pilots, a lot
10 of them have been -- they've changed a lot over the last
11 several years. And so the way that we've collected data
12 has also changed and it hasn't been consistent necessarily
13 across each of the programs. And so this year, we have
14 already begun and will be continuing to embark on finding
15 ways to have a more streamlined approach to how we are
16 collecting data for the programs and being able to report
17 that data back out, for example, demographic data within
18 Clean Cars 4 All and how what we're collecting from each
19 of the districts and what we're able to actually provide
20 has been very sporadic across each of the different
21 districts.

22 And so we'll be implementing a universal survey
23 across each of the programs, so there's one survey. We're
24 collecting similar data across it. And we're going to
25 work to make that available within online dashboards and

1 things like that, so that you can see that data more
2 routinely as the projects move forward.

3 And then to your second point about the phaseout
4 of plug-in hybrids in the Clean Vehicle Rebate Project,
5 thought that was legislatively prescribed and so we will
6 have to phase them out in that program, I'd hope that it's
7 encouraging to know that we will still be able to fund
8 those vehicles within the other equity programs within the
9 Clean Cars 4 All Program and within the financing
10 assistance programs. While they won't get the additional
11 incentive necessarily for new in the outer years, right
12 now, they can get that coupled. And then in the future
13 years we'll be able to at least continue to support them
14 in the used space.

15 BOARD MEMBER PACHECO-WERNER: Great. And so I
16 hope that we can think about, you know, in those future
17 years, how we have that parity in terms of being able to
18 help people that still can't afford them, you know, still
19 be able to make up for what's not available in other
20 funding as well.

21 Thank you so much.

22 CHAIR RANDOLPH: Board Member De La Torre.

23 BOARD MEMBER DE LA TORRE: Hello. Thank you.

24 I've got a few comments here. On harbor craft, I want to
25 emphasize that we stick with staff's recommendation on the

1 funding for that. When we did the Harbor Craft Rule,
2 there were a lot of commitments that were made and -- not
3 commitments, expectations that were raised, and I think we
4 need to follow through on those expectations, particularly
5 with -- I'll say this again with Catalina. It's the only
6 off-shore scheduled service that goes to a populated
7 island in the state of California. It's very important to
8 the population of Catalina, because it's the only way they
9 could get to the mainland from there.

10 On the fleets, you know, so many people spoke
11 about this large fleet issue. We are already making an
12 adjustment. They were supposed to -- the large fleets
13 were supposed to -- up over a hundred were supposed to be
14 removed completely by 2023. That's not going to happen.
15 They are going to be eligible in 2023. And in terms of
16 those large fleet/small fleet issue, if they are right,
17 and not all of the small fleet money gets spent, guess
18 what, we can redirect it. So it's going to be in the pot
19 and it's not going to go away. It will be there. And so,
20 you though, we're all going to see whether that's true or
21 not.

22 But to gripe now and say we need to make
23 adjustments right now is just not -- it's premature.
24 There is a market transformation taking place here. And
25 we need to support -- in the heavy-duty sector and we need

1 to support across the Board. And that's what we're doing
2 with this plan. Also, I'll say it again, I've said it
3 last month, ACF and ACT, the Advanced Clean Fleet Rule and
4 the Advance Clean Transit Rule -- Transportation Rule, I'm
5 sorry, are going to be working hand in hand to create this
6 market transformation. We are going to revisit ACT next
7 year after we complete ACF, so that those two are very
8 much in sync. The finished product of the Advanced Clean
9 Fleet Rule and we'll revisit the Advanced Clean
10 Transportation Rule, so that those two are completely in
11 sync going forward, and really guide and push the market
12 transformation in the heavy-duty sector.

13 I also want to support the Clean Cars 4 All
14 Program. This -- the funding that we have here is again
15 record amounts. Also goes to the secondary car market,
16 which the study is going to be done that we supported
17 earlier. It's also setting us up to maximize the benefit
18 of the Federal IRA legislation, which was signed by the
19 President a few -- a couple months ago.

20 And then finally, I just found it interesting
21 that Tesla is here griping to us about heavy-duty trucks
22 and HVIP when they have not even applied to be in HVIP.
23 So maybe when you're part of the program, then we can have
24 conversations about how you -- how things can work or not
25 work according to your perspective.

1 Thank you.

2 CHAIR RANDOLPH: All right. Vice Chair Berg.

3 VICE CHAIR BERG: Thank you, Chair, and great
4 job, staff. I want to echo my fellow Board members, this
5 is just amazing time in my tenure. I can remember when we
6 were very excited about 125 million, and here we are today
7 with transformational aspects along with transformational
8 funding, so that is very exciting.

9 I wasn't going to make a -- comments, but I
10 really did want to jump in and backup Board Member
11 Riordan. I do think that staff needs to consider that
12 there are heavy-duty vehicles that service neighborhoods
13 day in and day out. These are the trucks that if they go
14 up and down their streets providing those services, that
15 those neighbors are going to see. Very few neighbors are
16 going to see a lot where a truck leaves and goes and gets
17 on the freeway and comes back, because they're domiciled
18 there.

19 There is technology available. Put it on the --
20 on the fleet to come back to you to say how they're going
21 to prove to you that they're in that community, because
22 there's hardware -- I mean, software. They're tracking
23 their trucks all the time. I track my trucks. I know
24 where they go every minute of every day. And so put it
25 back on the fleets. If they truly want to participate and

1 show you, come up with something that's going to work, but
2 I do want to echo what Board Member Riordan said.

3 The other thing I would like to bring up, and I
4 know it's in the weeds, but it was in the presentation,
5 and that's really what is our policy, Board members -- my
6 fellow Board members, on when we look at giving the
7 Executive Officer the ability to carry-over wait list to
8 the following year? I found this so fascinating, as we
9 looked at the earlier years and we would sell out, and all
10 of a sudden we'd have 25 percent wait lists that was
11 taking money the following year, and now we have what two
12 point plus billion dollars and we're still wait listing --
13 thinking about wait listing and carrying over for the
14 following year. So maybe staff can give us a little bit
15 more information, how deep are you going to get into next
16 year, what's our policy thinking on that wait listing?
17 Not the wait listing itself, but carrying over a
18 commitment to the following year and starting out in the
19 hole in your next funding year.

20 Thank you so much.

21 MSCD INNOVATIVE LIGHT-DUTY STRATEGIES INCENTIVES
22 SECTION MANAGER MACUMBER: Great. Thanks. This is Lisa
23 Macumber. So that's a great question. Our contingency
24 plans that are in the funding plan are pretty consistent
25 from year to year. And what we -- what we expect with

1 this amount of money is not really to be in a wait list
2 situation, but should we be, we always evaluate what it
3 looks like. And we've always been very careful to not
4 overcommit the State or put us in a position where
5 we're --we are initiating a wait list and funding has not
6 been approved by the Legislature, or we don't foresee
7 funding coming.

8 So the key things that we would look at at the
9 staff level and that we would advise the Executive Officer
10 on is whether or not there is funding coming to us to be
11 able to support and ensure those wait lists that are in
12 place -- or to be established. We also have had
13 situations where we have cut off wait lists at points,
14 where we recognized that it will exceed dollars that we
15 expect to come. But again, this year's infusion of funds
16 is so significant that we do anticipate the program to
17 just stay open year round at this point. We've built in
18 those contingencies, because we don't know exactly what
19 will happen. And we've built in the alternative where we
20 have programs that don't have demand and we do have
21 funding flexibility to potentially move from programs that
22 are flush with funds to those that could use the funding
23 should the authority within the State budget be there.

24 VICE CHAIR BERG: So I'm just wondering, Lisa,
25 though -- and I appreciate that explanation. That was

1 fabulous. But, you know, how much -- there is such a
2 great need. And so are we going to set up our funding
3 programs where in one year, because of the need in the
4 transformation, we spend 125 percent and carry 25 percent
5 over? How much are we -- you know, from a policy
6 perspective, how much are we willing to dig in -- even
7 though we know we have the money, but how much are we
8 willing to dig in and do we have any carry-over from last
9 year to this year?

10 MSCD INNOVATIVE LIGHT-DUTY STRATEGIES INCENTIVES

11 SECTION MANAGER MACUMBER: That's a great question again.
12 You know, we don't have a policy of a specific amount,
13 because it really varies project by project. When we're
14 looking at what we have traditionally called first-come
15 first-served projects, which now we're really moving
16 towards more of a needs-based project, again, we've
17 just -- we've evaluated the program project itself and
18 what we think the needs would be to carry us just until we
19 could get to the Board. I don't -- without going back and
20 looking at numbers, I don't think we've ever committed
21 more than -- or over 25 percent even. It's always been a
22 relatively small amount.

23 That said however, now that we really moving
24 towards needs-based, at least in the light-duty section,
25 our plans are to kind of be able to cutoff the general

1 Applicants and make sure that the funding really does last
2 for those consumers, those participants that need the
3 money the most, so that we aren't ending up in wait list
4 situations, that the dollars are really staying there and
5 they're really prioritized for the consumers that need
6 them. And we're finding ways to bring that across as many
7 of the projects that we can. And so again, we don't have
8 a policy on the number specifically, but we -- we look at
9 a lot of different factors to figure that out and how we
10 would move forward for each project.

11 VICE CHAIR BERG: Well, I do really appreciate
12 the fact that you mentioned, and you're so correct, that
13 we are in a little bit of a new paradigm going from first
14 serve -- first-come first-served to needs based and it
15 will be really interesting for this year and we'll look
16 forward to your feedback next year on what angst did that
17 create for those that weren't in the needs category, but
18 got their application in, but they got bumped by the needs
19 category, and what's fair. So I'll be really interested
20 in your thoughts and your team's thoughts on how this is
21 going to work this year -- how it does work this year and
22 what you see that we really do need for next year.

23 I would just want to be cautious that we have a
24 full funding cycle for each year, and, you know, what you
25 have for one funding cycle doesn't majorly spill over to

1 another.

2 Thanks for listening.

3 CHAIR RANDOLPH: All right. Board Member Kracov.

4 BOARD MEMBER KRACOV: Thank you, Chair. I want
5 to thank staff for all the work that's been put into this.
6 I see Graciela Garcia, Lisa Macumber, I think a little bit
7 of Peter Christensen there today. Also, I want to thank
8 our friends and colleagues from the Energy Commission and
9 GO-Biz, Hannon Rasool, and Tyson Eckerle for coming, and
10 again want to nominate them to have honorary seats up
11 there in our staff table. For all the different things
12 that we're doing, we really need that partnership, need
13 their presence and need that coordination, so really
14 appreciate that.

15 I've got just a couple three substantive type of
16 comments. The first will focus on HVIP, Chair. Board
17 Member De La Torre just asserted this, but I would like to
18 ask a question to staff about it. We have heard about
19 this issue with the percentages for the small fleets
20 versus the big fleets over 500, a concern that seems to
21 emanate from the possibility that the small fleets may
22 not, you know, use all the money and therefore the demand
23 that we need, that the manufacturers need won't be met by
24 just giving the incentives in proportions that we're
25 proposing.

1 Hector seemed to suggest that, well, if that
2 happens, we could just give the money to the bigger fleets
3 that -- it's not like we're going to lose the money or the
4 money goes away. Can staff clarify where we stand on
5 that?

6 MSCD INNOVATIVE STRATEGIES BRANCH CHIEF

7 CHRISTENSEN: Sure. Happy to. So the proposal in the
8 funding plan reserves 70 percent of the HVIP funding for
9 small fleets, fleets of under 100, and for public agency
10 vehicles. That means that there's \$127 million available
11 for larger fleets, for fleets over 100. So \$127 million,
12 that's 30 percent of the HVIP funding. And that was
13 selected because it aligns with the large fleet demand
14 that we saw in the -- in the prior cycle in the prior year
15 in HVIP. So we do expect that we will be able to fully
16 fund the demand across the Board for fleets of all sizes
17 next year.

18 Now, if the small fleet demand doesn't
19 materialize as we think it will, as it has grown over the
20 past couple of years, we have a couple of milestones
21 throughout the year that make that funding available for
22 larger fleets. It starts on July 1st. If there's \$100
23 million left that small sheets haven't used, we start to
24 make that funding available for large fleets. And then
25 ultimately, if we still have funding left in the program

1 in November, all of the funding becomes available for
2 fleets of all sizes.

3 So we -- the bottom line is we expect to meet
4 demand for fleets of all sizes and the plan includes
5 mechanisms to make sure that throughout the year, if
6 there's funding available that we provide that funding
7 where the demand is.

8 BOARD MEMBER KRACOV: Terrific. Thank you for
9 that clarification. The other question I have -- and I
10 see I forget you, Dr. Vergis, there. And this isn't
11 necessarily for you. I'm just acknowledging your work on
12 this as well -- drayage -- coming from the South Coast,
13 drayage is so important. We heard Matt Schrap from the
14 Harbor Trucking Association speak today about drayage.
15 You know, I totally agree that we have to make sure that
16 we get drayage right. I'm going to be interested to see
17 with the turnover of truck and bus at the end of this year
18 how we're doing? I suspect we're going to do okay. And
19 some of the gloom and doom out there actually is not going
20 to come to light, which I'm really hopeful for and proud
21 of for this agency.

22 But we're going to have another transition
23 starting in 2024. It's going to be a small transition at
24 first. It's going to gather steam until we get to 2035
25 and the total phaseout, but we are going to require a lot

1 of zero-emission purchases starting for drayage first in
2 2024. So I think having a focus on drayage, set-aside for
3 drayage, making sure we're really paying attention to
4 getting the first tranche of ACF right makes sense to me.

5 If I can ask another question through the Chair,
6 if we can just spend another minute or so explaining our
7 approach on drayage in the HVIP Program.

8 MSCD INNOVATIVE STRATEGIES BRANCH CHIEF

9 CHRISTENSEN: Yeah, the plan that you have in front of you
10 today continues that strong focus on drayage. A couple of
11 things to point out specifically. First, this is the
12 second year of the drayage set-aside. So this year we
13 have 157 million specifically for drayage trucks in HVIP.
14 And when that 157 million is exhausted, drayage trucks can
15 continue to be funded with the HVIP standard funding.

16 In terms of the outlook for drayage, we are
17 continuing the additional enhancement for drayage trucks,
18 so an additional \$30,000 per truck. So that brings the
19 base drayage voucher to 150,000, and plenty of opportunity
20 for turning over drayage trucks within their useful life
21 throughout the next few years, include -- because we can
22 continue to fund that zero-emission technology since the
23 drayage trucks are able to register in the drayage truck
24 registry through their useful life.

25 So plenty of good opportunities for drayage

1 trucks continuing that strong focus that we started last
2 year and moving forward with the momentum that we started
3 with project 800.

4 BOARD MEMBER KRACOV: And thank you so much, Mr.
5 Christensen for that. Just sign me up whatever efforts I
6 can put in to get the word out and to make those
7 allocations and our proposals for drayage successful
8 working with folks like the harbor truckers, just let me
9 though. But really pleased to hear about those aspects of
10 the proposal.

11 Chair, just the last couple of things. On harbor
12 craft, I also am really excited about seeing the money
13 there. I know a lot of hard work went into that. And
14 it's sort of a culmination. I'm not sure culmination,
15 because that implies an end, but it's certainly an
16 important step among the process for the Harbor Craft Rule
17 that we passed earlier this year. I'm supportive of the
18 staff proposal on this.

19 Noted that there is some public process in the
20 future. Maybe a few of us our a glutton for punishment,
21 but sign me up for that too if there's a way that we can
22 help, and make sure that that process goes well. Again, a
23 lot of these vessels are in the South Coast and certainly
24 the Catalina folks that Hector emphasized are as well. So
25 very pleased to see the harbor craft in there.

1 The last thing, Chair, is on Moyer. I've heard a
2 lot of good things about the proposals that we have made
3 as a Board and then the staff followed through with the
4 on-road changes to Moyer, including the cost
5 effectiveness, but, you know, really a whole bunch of
6 other changes to make sure that the districts are able to
7 spend the Moyer money effectively. The districts seem
8 happy with it, so I'm very pleased with the work that we
9 did on on-road. And appreciate Graciela Garcia also
10 giving a shout-out to the iPad work that Vice Chair Berg,
11 Mayor Hurt and I put together on the VIP part of Moyer,
12 where there's some also some guidance changes aligning
13 with the other parts of Moyer, that the Board is going to
14 see a memo on once those are finalized.

15 And I'm proud of the work that we did, working
16 with staff with Mr. Segall's group, Femi and Sandra also
17 led that. I think that's a good example of Board members
18 being able to lean in and working with stakeholders it
19 affords a good outcome. I note that we're going to sort
20 of try some of this for Moyer off-road now and look
21 forward to that, and hoping that the process goes as well
22 for off-road as I believe it has for on-road.

23 So those are my comments on the funding plan.
24 Thank you, Chair.

25 CHAIR RANDOLPH: All right. Thank you.

1 Board Member Takvorian.

2 BOARD MEMBER TAKVORIAN: Thank you, Chair. Thank
3 you to staff. This is a -- this is not -- this is a
4 really historic day, not just because I think of the
5 resource -- the amount of resource that's on the table in
6 front of us. When I said that to my husband at 4 o'clock
7 this morning when I got up, he's like well, how do you
8 even wrap your -- how many pages is that and how are you
9 wrapping your mind around that. Well, that's why it's 4
10 o'clock in the morning. I'm on my way. So he said I
11 think you're going to need multiple cups of coffee for
12 that.

13 So I know that you all have had many cups of
14 coffee over this long period to make that all work. But
15 the key thing is not the amount of money, although that's
16 awesome, it's really because it pulls together so many of
17 the priorities that CARB has been working so hard for for
18 so long. And it really reflects the plans and the
19 priorities that we -- that we've articulated, that we've
20 put in the policy. So I think it's really putting our
21 money where our mouth is in a lot of ways. And for so
22 long, we didn't have the ability to do that, so I really
23 appreciate this moment, because in every area, the plan
24 really prioritizes zero-emission and equity. I mean, it
25 just screams that from every corner.

1 I also appreciate the innovative and diverse
2 methods that we're using to advance what I think is really
3 a culture shift. Yes, this is a regulation. Yes, there
4 are incentives, but we're really talking about a culture
5 shift that I think is -- it dominated a lot of our
6 conversations in kind of a negative way for a long time,
7 that this just couldn't happen. We wouldn't get there,
8 but we are getting there. We are -- and you're -- and the
9 work that you've done really demonstrates that we can do
10 it. I was thinking about it really compares to voter
11 outreach. And the traditional way you do that is that you
12 reach out to high propensity voters, the voters that vote
13 all the time, and you don't spend money on the voters that
14 don't vote.

15 Well, what happens? Those voters still don't
16 vote and the ones that vote all the time, vote. So what
17 you're doing is trying these innovative methods to get
18 people to vote, to make that culture shift. And some of
19 them will work and some of them won't work.

20 So while I appreciate Dr. Sperling's ideas about
21 evaluation, which I think we need to do, I just want to
22 make sure that we're -- that we're eval -- we're looking
23 at the outcomes that we really want to make sure happen,
24 right? And they're very different, so we have to be broad
25 I think in our evaluation.

1 I want to say that I really appreciate that the
2 plan provides significantly more resources for low-income
3 car buyers for both new and used cars finally -- well, not
4 the first time, but we're increasing it for use cars. The
5 Clean Mobility Options I think are coming up. For bike
6 and transit riders, that equity is really coming to the
7 fore. I've said it before, I'd like to see clean mobility
8 and cars be at an equal level, so some day we'll be there,
9 I hope.

10 And I think the commercial harbor craft has -- as
11 has been noted is really important. That's -- that's
12 really a revolutionary change from where we started on
13 that. So I'm really excited that those are included and
14 there's a lot of those in San Diego and I think the
15 community will really benefit and appreciate that.

16 I want to say with I guess all due respect to my
17 colleagues, Peter I really appreciated your explanation of
18 the domicile requirement. And I had questions about it as
19 well, but I really do think that it's an important element
20 to keep -- to keep in. It's a requirement that I think we
21 need to include, because we have bus yards in our
22 communities, we have ports in our communities. When you
23 have all of these large fleets that are domiciled, located
24 in a particular community, that's a whole lot more traffic
25 right there that I think is what you're trying to get at.

1 And I just want to make clear that that -- that's a whole
2 different impact than the trucks that may be going through
3 communities, which are important as well, but I think
4 we're getting at those with the Port drayage truck rules
5 and the incentives that are available. The Buck and --
6 the Bus and Truck Rule, I think, provides some of that.

7 So we are hitting those fleets that -- and those
8 trucks that are going through communities regularly
9 because we can identify where they're going, like to a
10 port. I think with things like warehouses, if we start to
11 have maybe more ISR rules or statewide ISR, then we could
12 be evaluating those, because we know where they're going
13 and coming from. But I think it would be really
14 difficult, unless I'm missing something, for us to really
15 track where those -- where those vehicles are going. So I
16 would say stick with what you have in the plan at this
17 point.

18 I did have two questions -- three questions
19 actually. So I appreciate the focus on the smaller
20 heavy-duty fleets and what you're talking about in terms
21 of the alignment with the ACF priority fleets. It says in
22 the plan I believe 50. I know that we have a discussion
23 about whether it would stay at 50. So is -- are you
24 saying alignment with the whatever we land on or what?
25 Let me ask you that.

1 MSCD INNOVATIVE STRATEGIES BRANCH CHIEF

2 CHRISTENSEN: Yeah. Thank you. Fifty is the fleet size
3 limit that would take effect in 2024. Before that limit
4 takes effect, we'll be back in front of the Board with the
5 next funding plan.

6 BOARD MEMBER TAKVORIAN: Oh, okay. I see, so
7 that it can be aligned once they -- because ACF will come
8 first. Okay. Thank you.

9 I had a question about the issue that was raised
10 about the 1099s that were being issued by some of the --
11 some of the districts, I believe, to those who were
12 receiving incentives. And I thought that there was a
13 discussion about whether that would need to continue.

14 EXECUTIVE OFFICER CLIFF: Thanks for that.

15 BOARD MEMBER TAKVORIAN: Um-hmm.

16 EXECUTIVE OFFICER CLIFF: We were very much aware
17 of that issue and working on it, and would be happy to
18 brief you about how we're thinking about that.

19 BOARD MEMBER TAKVORIAN: Okay.

20 EXECUTIVE OFFICER CLIFF: We're not quite ready
21 to roll that out here, but happy to do that offline.

22 BOARD MEMBER TAKVORIAN: Okay. Awesome. Thank
23 you. And then lastly, I did receive some communication
24 and I think you did too, about folks who are concerned
25 about the school bus incentive amount being pinned to the

1 amount of the value of the buses. And these folks were
2 suggesting that perhaps if it was not pinned to the value
3 of the bus that the incentives could go farther, if they
4 were on a sliding scale. So I wondered -- I have no
5 information about that. And I just wondered what you all
6 thought about it and whether you would consider a
7 incentive amount that would reduce, because what they were
8 saying was that the amount of the buses was elevated
9 because of the amount of the incentive. And I just wanted
10 your thoughts about that.

11 MSCD DIVISION CHIEF VERGIS: Sure, no problem.
12 Sydney Vergis. Thank you for raising that issue. Yeah,
13 we have heard those concerns.

14 CHAIR RANDOLPH: Into the mic, Syd.

15 MSCD DIVISION CHIEF VERGIS: Should I turn it on
16 also?

17 (Laughter).

18 CHAIR RANDOLPH: There's an idea.

19 (Laughter).

20 MSCD DIVISION CHIEF VERGIS: Well, Sydney Vergis.
21 Thank you so much for the question. We, too, are
22 concerned. We are hearing concerns about basic price
23 inflation happening in the school bus market, because
24 incentives are very generous, so that's something we'll be
25 looking at certainly. The funding that we received is

1 from Proposition 98. So we also need to work within the
2 confines of the proposition. So as we learn more about
3 Prop 98, that's certainly an issue that we'll be looking
4 at as well, but also trying to stay true to our
5 Proposition 98 requirements. So, absolutely.

6 CHAIR RANDOLPH: All right. Thanks.

7 Dr. Balmes.

8 BOARD MEMBER BALMES: Thank you, Chair Randolph.
9 And, you know, I will just add to the litany of thanks to
10 the staff for their hard work on this. And like Dr.
11 Sperling, I've been -- and Ms. Berg, and Ms. Riordan,
12 we've been through a lot of history with regard to our
13 incentive programs. And it's really nice to see how much
14 money is available now and how we're trying to make the
15 programs align better, and to have an equity lens with
16 regard to distribution of the money.

17 So most of my comments that I would have made
18 have been made by other Board members, so I'm not going to
19 make those again. But I do have a question to staff, and
20 I may have missed this. I was going in and out, various
21 Zoom calls that I was scheduled for. We have generous
22 funding now, but we have a \$25 billion State deficit
23 projected for next year. Is that going to impact the
24 amount of money that we're -- that we've been discussing
25 today?

1 MSCD DIVISION CHIEF VERGIS: In short, no. The
2 funding that you are looking at is funding that has been
3 allocated from the legislature already. So that's done.
4 I think the funding projections that you're looking at
5 will make for very interesting conversations in the
6 January budget time frame.

7 BOARD MEMBER BALMES: Yeah, and I -- this next
8 piece will just be a comment, you know -- and this is
9 politically incorrect, but, you know, there was a
10 proposition on the ballot that would have provided a
11 steady stream of funding, even with the crazy budget
12 surpluses and deficits that we go through in California,
13 because we have a tax structure that is totally out of
14 whack with the State's needs, especially during times of
15 economic downturn. That was for Bill.

16 CHAIR RANDOLPH: Okay. All right. So I, too,
17 will echo my thanks to staff. I am comfortable with
18 the -- with the proposal as presented by staff. I did
19 have one question I -- and it's more kind of a practical
20 implementation question, which is in answer to Board
21 Member Kracov's question about if the smaller fleets don't
22 use the funding, then there's point at which more funding
23 will become available.

24 One of the concerns I've heard from large fleets
25 is that presents a challenge in planning, which I

1 understand, but I'm not sure how to fix that. But one way
2 that would be helpful is if it -- if there's not a big lag
3 between the point at which you know the funds are
4 available and the point which you can access the funds.
5 So maybe you guys could walk me through the process for
6 July 1st there's money available. How quickly can that be
7 distributed?

8 MSCD INNOVATIVE STRATEGIES BRANCH CHIEF

9 CHRISTENSEN: Absolutely. So the implementation mechanism
10 is actually pretty straightforward on that. So when July
11 1st -- we'll know what the funding amounts are looking
12 like even as we approach July 1st, so we'll have a pretty
13 good sense of that and we'll be posting that information
14 in real-time on the HVIP website, so that fleets, and
15 manufacturers, and everybody who's interested can track
16 it. As soon as we hit that milestone on the 1st, if
17 the -- if the funding is available, we'll make that
18 available right away. It's -- it happens in -- it happens
19 right there and then on that day. And then the same thing
20 happens in November, if there's additional funding left,
21 we'll make that available to all fleets right away. So
22 there will be transparency as we approach those
23 milestones, and then the implementation will happen right
24 there on that day.

25 CHAIR RANDOLPH: Okay. Thank you. That's

1 helpful.

2 All right. The Board has before them Resolution
3 number 22-20. Do I have a motion and a second?

4 BOARD MEMBER SERNA: I'll move.

5 BOARD MEMBER TAKVORIAN: Second.

6 CHAIR RANDOLPH: Okay. I have a motion and a
7 second. Clerk, would you please call the roll.

8 BOARD CLERK GARCIA: Yes.

9 Dr. Balmes?

10 BOARD MEMBER BALMES: Yes.

11 BOARD CLERK GARCIA: Mr. De La Torre?

12 BOARD MEMBER DE LA TORRE: Yes.

13 BOARD CLERK GARCIA: Mr. Eisenhut?

14 BOARD MEMBER EISENHUT: Yes.

15 BOARD CLERK GARCIA: Senator Florez?

16 BOARD MEMBER FLOREZ: Florez, aye.

17 BOARD CLERK GARCIA: Ms. Hurt?

18 BOARD MEMBER HURT: Aye.

19 BOARD CLERK GARCIA: Mr. Kracov?

20 BOARD MEMBER KRACOV: I'm going to put a tickler
21 on my calendar, Mr. Christensen for July 1st to see how
22 we're doing.

23 Aye.

24 (Laughter).

25 BOARD CLERK GARCIA: Dr. Pacheco-Werner?

1 BOARD MEMBER PACHECO-WERNER: Yes.

2 BOARD CLERK GARCIA: Mrs. Riordan?

3 BOARD MEMBER RIORDAN: Aye.

4 BOARD CLERK GARCIA: Supervisor Serna?

5 BOARD MEMBER SERNA: Aye.

6 BOARD CLERK GARCIA: Professor Sperling?

7 Ms. Takvorian?

8 BOARD MEMBER TAKVORIAN: Aye

9 BOARD CLERK GARCIA: Supervisor Vargas?

10 Vice Chair Berg?

11 VICE CHAIR BERG: Aye.

12 BOARD CLERK GARCIA: Chair Randolph?

13 CHAIR RANDOLPH: Yes.

14 BOARD CLERK GARCIA: Madam Chair, the motion
15 passes.

16 CHAIR RANDOLPH: All right. Okay. So our
17 meeting for today is now adjourned. We will reconvene
18 tomorrow, November 18th at 8:30 a.m. That' 8:30 a.m.

19 (Laughter).

20 CHAIR RANDOLPH: So make sure you are here with
21 bells on for day two of our November Board meeting.

22 Thank you all. See you tomorrow.

23 (Thereupon the Air Resources Board meeting
24 adjourned at 4:07 p.m.)

25

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 4th day of December, 2022.

JAMES F. PETERS, CSR
Certified Shorthand Reporter
License No. 10063