

MEETING
STATE OF CALIFORNIA
AIR RESOURCES BOARD

ZOOM PLATFORM

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

THURSDAY, JUNE 9, 2022

9:04 A.M.

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

APPEARANCES

BOARD MEMBERS:

Liane Randolph, Chair

Sandra Berg, Vice Chair

John Eisenhut

John Balmes, PhD

Hector De La Torre

John Eisenhut

Senator Dean Florez

Davina Hurt

Gideon Kracov

Tania Pacheco-Werner, PhD

Barbara Riordan

Dan Sperling, PhD

Diane Takvorian

STAFF:

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

Chanell Fletcher, Deputy Executive Officer, Environmental
Justice

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

Edna Murphy, Deputy Executive Officer, Internal Operations

Rajinder Sahota, Deputy Executive Officer, Climate Change
and Research

APPEARANCES CONTINUED

STAFF:

Craig Segall, Deputy Executive Officer, Mobile Sources and Incentives

Ellen Peter, Chief Counsel

Pippin Brehler, Senior Attorney, Legal Office

Joshua Cunningham, Branch Chief, Advanced Clean Cars Branch, Sustainable Transportation and Communities Division(STCD)

Jennifer Gress, PhD, Division Chief, STCD

Marko Jeftic, Air Resources Engineer, Low Emission Vehicle Regulations Section, STCD

Michael McCarthy, Vehicle Program Specialist, Emissions Control and Compliance Division (ECCD)

Shobna Sahni, Chief, New Vehicle/Engines Program Branch, ECCD

Marissa Williams, Manager, Light-Duty Vehicle Regulations Section, STCD

Anna Wong, Manager, ZEV Market Advancement Section, STCD

ALSO PRESENT:

Kevin Abernathy, Milk Producers Council

Meredith Alexander, The Climate Group - EV 100

Ruben Aronin, California Business Alliance for a Clean Economy

Sal Ayala, California Hispanic Chamber of Commerce

Daniel Barad, Sierra Club

David Barker, Subaru

APPEARANCES CONTINUED

ALSO PRESENT:

William Barrett, American Lung Association

Kalysta Barrios, Environment California

Thomas Becker

Julie Beer

Anthony Bento, New Car Dealers Association

Kathy Bergren, National Corn Growers Association

Chris Bliley, Growth Energy

Rasto Brezny, PhD, Manufacturers of Emissions Controls Association

Tatanka Chris Bricca, Circle of 100

Scott Brierley, Fermata Energy

Kevin Brown, Manufacturers of Emissions Controls Association

Tom Cackette, Environmental Defense Fund

Julian Canete, California Hispanic Chamber of Commerce

Andrea Cao, California Asian Pacific Chamber of Commerce

Sherry Chavarria, Dinuba Democratic Club

Michael Chiacos, Community Environmental Council

Jo Ann Consigliers, SB 1230, greencal.org, the Romero Institute, Circle of 100

Eileen Conway, Si Se Puede

Teresa Cooke, California Hydrogen Coalition

Kevin Curley, Mazda

APPEARANCES CONTINUED

ALSO PRESENT:

Laura Deehan, Environment California, Environment
California Research and Policy Center

Steven Douglas, Alliance for Automotive Innovation

Jamie Dow

Allis Druffel, California Interfaith Power and Light

Sylvia Duarte, Antelope Valley Hispanic Chamber of
Commerce

Katie Dykes, Commissioner, Connecticut Department of
Energy and Environmental Protection

Tyson Eckerle, Deputy Director, Zero Emission Vehicle
Market Development Go-Biz

James Fahy, Mercedes-Benz North America

Jack Lucero Fleck, 350 East Bay

Kim Floyd

Ysidro Garcia, Latin Business Association

Robert Graham, Strong Plug-In Hybrid Vehicle Coalition

Jenny Gilger, American Honda

Marcus Gomez, California Clothing Recyclers

Jess Gonzalez, Si Se Puede

Stephanie Hagiwara

Peg Hanna, Assistant Director of Air Monitoring and Mobile
Sources, New Jersey Department of Environmental Protection

Heidi Harmon, Let's Green California!

Steven Henderson, Ford Motor Company

Kevin Hamilton, Central California Asthma Collaborative

APPEARANCES CONTINUED

ALSO PRESENT:

Scott Hochberg, Center for Biological Diversity

John Hoffman, Greater Arden Chamber of Commerce

Andrea Isood, Sierra Club

Dylan Jaff, Consumer Reports

Ben Keller, 350 Bay Area

Jim Kennedy, Healthy Air Alliance

Kathy Kerridge, 350 Bay Area

Doug Kessler, Si Se Puede

Estella Kessler, Si Se Puede

Ameen Khan, California Environmental Voters

Christine Kirby, Director, Air and Climate Division,
Massachusetts Department of Environmental Protection

Neil Koehler, Renewable Fuels Association

Christopher LaLone, Director Division of Air Resources,
New York State Department of Environmental Conservation

Amy Lilly, Mercedes-Benz

Katie Little, California Farm Bureau

Carol Loewenstein, Romero Institute, Let's Green
California, Circle of 100

Michael Lord, Toyota Motor North America

Bill Magavern, Coalition for Clean Air

Emily Maravillo, Si Se Puede

Cristina Marquez, International Brotherhood of Electrical
Workers, Local 569

APPEARANCES CONTINUED

ALSO PRESENT:

Timothy Marvillo, Si Se Puede

Emily McCabe, Environment California

James McFadden, GreenCal.org, Romero Institute

Ellen McClure, 350 Bay Area

Laurel Moorhead, Transfer Flow, Inc.

Joseph Mendelson, Tesla

Simon Mui, Natural Resources Defense Council

Jade Northrup, Pixar, Extinction Rebellion

Samantha Ortega, ChargerHelp!

Anne-Marie Otey, Los Angeles/Orange County Business Trades

Joe Partida, Oakland Chamber of Commerce

Roman Partida-Lopez, Greenlining Institute

David Patterson, CHAdEMO Association

Jeannine Pearce, Better World Group

Vicente Perez Martinez

Lori Pesante, Dolores Huerta Foundation

Greg Potter, Equipment and Tools Institute

David Reichmuth, PhD, Union of Concerned Scientists

Jim Relles, Relles Florist

Nick Ratto, 350 Bay Area Action

Erika Romero, Valley Clean Air Now

Leana Rosetti, Extinction Rebellion

APPEARANCES CONTINUED

ALSO PRESENT:

Mariela Ruacho, American Lung Association

Sasan Saadat, Earthjustice

Rachel Sakata, Senior Air Quality Planner, Oregon
Department of Environmental Quality

Tony Shain, Extinction Rebellion, San Francisco

Chip Sharpe

John Shears, Center for Energy Efficiency and Renewable
Technologies

Chuck Shulock, Natural Resources Defense Council

Megan Shumway, CHN, Climate Coalition, Sacramento 350

Peter Slowik, International Council on Clean
Transportation

Carlos Solorzano, California Hispanic Chamber of Commerce

Sarah Somorai, Hyundai

Greg Spooner, Scientist Rebellion

Stephanie

Magali Torres, Merced Hispanic Chamber of Commerce

Eileen Tutt, California Electric Transportation Coalition

Tom Van Heeke, Rivian

Enrique Velez, Latin Business Association

Jim Verburg, Western States Petroleum Association

Tony Villegas, Si Se Puede

Matt Wait

Mike Williams, International Warehouse Logistics
Association

APPEARANCES CONTINUED

ALSO PRESENT:

Justin Wilson, ChargePoint

Jeff Wuttke, Stellantis

Emma Yip, Center for Biological Diversity

Bob Yuhnke, Elders Climate Action

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PROCEEDINGS

1
2 CHAIR RANDOLPH: All right. Thank you. Good
3 morning. The June 9th 2022 public meeting of the
4 California Air Resources Board will come to

5 Board Clerk, will you please call the roll

6 BOARD CLERK GARCIA: Dr. Balmes?

7 BOARD MEMBER BALMES: Here.

8 BOARD CLERK GARCIA: Mr. De La Torre?

9 BOARD MEMBER DE LA TORRE: Here.

10 BOARD CLERK ESTABROOK: Mr. Eisenhut?

11 BOARD MEMBER EISENHUT: Here.

12 BOARD CLERK GARCIA: Senator Florez?

13 Assemblymember Garcia?

14 Ms. Hurt?

15 Mr. Kracov?

16 Senator Leyva?

17 Dr. Pacheco-Werner?

18 BOARD MEMBER PACHECO-WERNER: Here.

19 BOARD CLERK GARCIA: Mrs. Riordan?

20 BOARD MEMBER RIORDAN: Here.

21 BOARD CLERK GARCIA: Supervisor Serna?

22 Professor Sperling?

23 BOARD MEMBER SPERLING: Here.

24 BOARD CLERK GARCIA: Ms. Takvorian?

25 Supervisor Vargas?

1 Vice Chair Berg?

2 VICE CHAIR BERG: Here.

3 BOARD CLERK GARCIA: Chair Randolph?

4 CHAIR RANDOLPH: Here.

5 BOARD CLERK GARCIA: Madam Chair, we have a
6 quorum.

7 CHAIR RANDOLPH: Thank you. We will begin with a
8 few housekeeping items. We are conducting today's meeting
9 in person as well as offering remote options for public
10 participation both by phone and in Zoom. Anyone who
11 wishes to testify on a Board item in person should fill
12 out a request-to-speak card available in the foyer and
13 turn it in to a Board assistant prior to the commencement
14 of the item. If you are participating remotely, you will
15 raise your hand in Zoom or dial star nine if calling in by
16 phone. The clerk will provide further details regarding
17 how public participation will work in a moment.

18 For safety reasons, please note the emergency
19 exit to the rear of the room through the lobby. In the
20 event of a fire alarm, we are required to evacuate this
21 room immediately and go down the stairs to the left of the
22 elevator and out of the building. When the all-clear
23 signal is given, we will return to the hearing room and
24 resume the hearing.

25 A closed captioning feature is available for

1 those of you joining us in the Zoom environment. In order
2 to turn on subtitles, please look for a button labeled
3 "CC" at the bottom of the Zoom window as shown in the
4 example on the screen now.

5 I would like to take this opportunity to remind
6 everyone to speak clearly and from a quiet location,
7 whether you are joining us in Zoom or calling in by phone.

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

19 (Interpreter translated in Spanish.)

20 CHAIR RANDOLPH: I will now ask the Board Clerk
21 to provide more details on today's procedures.

22 BOARD CLERK GARCIA: Thank you, Chair Randolph.
23 Good morning, everyone. My name is Lindsay Garcia and I
24 will be calling on the commenters who are joining us
25 remotely and Katie Estabrook will be calling on commenters

1 who have turned in a request-to-speak card and are joining
2 us here in the room.

3 I will provide information on how public
4 participation will be organized for those who are joining
5 in Zoom or by calling in to today's meeting. If you are
6 joining us remotely and wish to make a verbal comment on
7 one of the Board items or during the open comment period
8 at the end of today's meeting, you will need to be using
9 Zoom webinar or calling in by telephone. If you are
10 currently watching the webcast on CAL-SPAN, but you wish
11 to comment remotely, please register for the Zoom webinar
12 or call in. Information for both can be found on the
13 public agenda for today's meeting.

14 To make a verbal comment, we will be using the
15 raise hand feature in Zoom. If you wish to speak on a
16 Board item, please virtually raise your hand as soon as
17 the item has begun to let us know you wish to speak. To
18 do this, if you are using a computer or tablet, there is a
19 raise hand button. If you are calling in on the
20 telephone, dial star nine to raise your hand. Even if
21 you've previously indicated which item you wish to speak
22 on when you registered, you must raise your hand at the
23 beginning of the item, so that you can be added to the
24 queue and your chance to speak will not be skipped.

25 If you will be giving your verbal comment in

1 Spanish and require an interpreter's assistance, please
2 indicate so at the beginning of your testimony and our
3 translator will assist you. During your comment, please
4 pause after each sentence to allow for the interpreter to
5 translate your comment into English.

6 When the comment period starts, the order of
7 commenters will be determined by who raises their hand
8 first. I will call each commenter by name and will
9 activate each commenter's audio when it is their turn to
10 speak. For those calling in, I will identify you by the
11 last three digits of your phone number. We will not show
12 a list of commenters. However, I will be announcing the
13 next three or so commenters in the queue, so you are ready
14 to testify and know who is coming up next. Please note,
15 you will not appear by video during your testimony.

16 I would also like to remind everyone to please
17 state your name for the record before you speak. This is
18 especially important for those calling in by phone to
19 testify on an item. We will have a time limit for each
20 commenter. Per the Chair's direction, based on the
21 commenters signed up for this item, we will begin the
22 comment period with a two-minute time limit.

23 During public testimony, you will see a timer on
24 the screen. For those calling in by phone, we will run
25 the timer and let you know when you have 30 seconds left

1 and when your time is up. If you require Spanish
2 interpretation for your comment, your time will be
3 doubled.

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

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

13 Thank you. I'd like to turn the microphone back
14 to Chair Randolph now.

15 CHAIR RANDOLPH: Thank you.

16 The only item on the agenda today is Item number
17 22-8-1, proposed Advanced Clean Cars II Regulation. If
18 are you here with us in the room and wish to comment on
19 this item, please fill out a request-to-speak card as soon
20 as possible and submit it to a Board assistant. If you
21 are joining us remotely and wish to comment on this item,
22 please click the raise hand button or dial star nine now.
23 We will call on both in-person and remote commenters when
24 we get to the public comment portion of this item.

25 Today, the Board will hear staff's current

1 proposal for Advanced Clean Cars II, the next iteration of
2 our light-duty Advanced Clean Cars II. This the first of
3 two hearings. And while the Board will not be voting on
4 the final proposal today, we will be considering a
5 proposed resolution regarding direction to staff.

6 Over the past three decades, the zero-emission
7 vehicle regulations that CARB has adopted have acted as a
8 catalyst, motivating manufacturers to both make internal
9 combustion engine vehicles cleaner and to develop
10 zero-emission technology.

11 We created our first ZEV standard in 1990 and the
12 introduction of the first hybrid car soon followed, along
13 with the introduction of plug-in hybrids. In 2012,
14 Advanced Clean Cars I laid out the path to 10 percent of
15 ZEV car sales by 2025, a goal we have already met and
16 exceeded several years early, and spurred development of
17 new zero-emission vehicle technology.

18 Now, we are going all the way to zero. Advanced
19 Clean Cars II will build on this legacy by setting the
20 course to 100 percent zero-emission vehicle sales, while
21 ensuring that emissions from remaining internal combustion
22 engine vehicles are rigorously controlled.

23 A clean transportation sector is essential to
24 protect the health of both our communities and our
25 climate. Mobile sources are the greatest contributor to

1 emissions of criteria pollutants and greenhouse gases in
2 California today, accounting for about 80 percent of
3 smog-forming emissions and approximately 50 percent of
4 statewide GHG emissions with fuel production and delivery
5 included. It is essential that more stringent mobile
6 source emission controls are put in place to help
7 California achieve federal air quality standards and the
8 State's greenhouse gas targets that will protect public
9 health and mitigate the impacts of climate change.

10 The proposal we will hear today will implement
11 the direction and vision Governor Newsom established in
12 Executive Order N-79-20 by driving sales of ZEVs to 100
13 percent in California by 2035. The regulation is designed
14 to ensure consumers can successfully replace their
15 traditional combustion vehicles with newer used ZEVs and
16 plug-in hybrids that both meet their transportation needs
17 and protect the emission benefits of the program.

18 California's leadership in the ZEV marketplace
19 has allowed the State to be an incubator for development
20 of ZEV technology and a driver of electrification. Today,
21 automakers have announced electrification plans far beyond
22 what many of us would have imagined just a few years ago.

23 Much of the market growth of ZEVs is attributed
24 to improvements in ZEV technology and vehicle products.
25 The industry has rapidly responded to evolving market

1 pressure, consumer demand, and regulatory requirements in
2 California, partner states, and around the globe.

3 As California transitions to zero-emission
4 transportation, it's critical that all Californians are
5 able to access zero-emission vehicles. This regulation
6 aims to embed equity and environmental justice more than
7 we have ever done before. And to do so, it must ensure
8 that communities disproportionately burdened by pollution
9 feel the benefits of this transition to a clean
10 transportation system. Therefore, the proposal seeks to
11 establish new tools to improve access to zero-emission
12 vehicles for low-income households and communities most
13 impacted by pollution.

14 These are on top of billions of dollars in
15 incentive spending to benefit these communities, including
16 programs that expand our focus from zero-emission vehicles
17 to mobility as a whole.

18 Finally, and most importantly, this proposal aims
19 to benefit these communities and all Californians by
20 further reducing smog-forming emissions from the
21 combustion of fossil fuels.

22 This historic proposal is the culmination of over
23 three years of technical analysis, policy development, and
24 stakeholder engagement. Staff has held several public
25 meetings and countless meetings with individual

1 stakeholders, and as result, have made many modifications
2 to bring the proposal to where it is today.

3 Many jurisdictions around the globe have set
4 ambitious targets to phase out the sale of internal
5 combustion cars over the next decade and a half. But it
6 is one thing to state your ambition and a far more
7 difficult endeavor to show how you will achieve it.
8 California is one of only a handful of jurisdictions,
9 perhaps the only one, to set out a legally binding and
10 enforceable roadmap with annual requirements showing
11 exactly how we get to zero year by year. And that is the
12 regulation before us and I look forward to this
13 discussion.

14 Mr. Segall, will you please introduce the item?

15 DEPUTY EXECUTIVE OFFICER SEGALL: Thank you,
16 Chair Randolph. As you've said this is a momentous day.
17 Staff's proposal, if subsequently approved by the Board,
18 is intended to achieve 100 percent zero-emission vehicle
19 sales by 2035. Is it among the very first legally
20 blinding proposals of such in the world and it is a
21 comprehensive proposal.

22 First, with the growing volume of ZEVs comes a
23 growing need to ensure that these vehicles continue to
24 satisfy the transportation needs of Californians and that
25 they continue to provide emission benefits over their

1 lifetimes. Staff's proposal includes new minimum
2 technical requirements for ZEVs and a suite of ZEV
3 assurance measures that would create minimum requirements
4 for warranty, durability, serviceability, streamlined
5 charging and battery labeling. These are critical tools
6 to ensure durable, affordable ZEVs for -- are available
7 for all communities and a chance for California to lead.

8 Staff is also proposing specific provisions to
9 encourage manufacturers to take actions to improve access
10 to ZEVs for disadvantaged, low-income, and other frontline
11 communities, including investing in community car share
12 programs, producing affordable vehicles, and keeping used
13 vehicle here in California to support CARB's complementary
14 equity incentive programs.

15 Next, staff is proposing to strengthen the low
16 emission vehicle regulations, which apply to vehicles with
17 conventional internal combustion engines, recognizing that
18 the last -- that the last of these vehicles -- how amazing
19 to get to say that -- the last of these vehicles will
20 remain on the road well past 2035. These amendments
21 tighten the standards for a broader array of operating
22 conditions and help to prevent backsliding of individual
23 vehicle emissions as the fleet comprises an increasing
24 volume of ZEVs.

25 These proposed regulations build on decades of

1 expertise at improving public health and reducing vehicle
2 emissions and are the product of multiple years of
3 technical staff work and public collaboration.

4 Stakeholder engagement, including four public workshops,
5 one public listening session, and numerous, numerous
6 individual or work group meetings with stakeholders were
7 crucial components of designing the proposal you'll hear
8 today, and is a continuing endeavor. You'll hear from
9 some of our collaborators in other states as well today.

10 In deed, as a result of this collaboration and
11 input, staff will presenting 15-day changes to address
12 comments raised during the 45-day comment period. We will
13 return to the Board later this summer with our final
14 proposal for your consideration. And I want to just take
15 a second to thank the staff for hard enduring work on all
16 of this.

17 And with that, I will now turn to them. I will
18 now ask Anna Wong and Marko Jeftic of the Sustainable
19 Transportation and Communities Division to begin the staff
20 presentation.

21 Anna.

22 (Thereupon a slide presentation.)

23 STCD ZEV MARKET ADVANCEMENT SECTION MANAGER WONG:

24 Thank you, Craig.

25 Good morning Chair Randolph and members of the

1 Board. I am and my colleague Marko Jeftic are so pleased
2 to be able to present today staff's Advanced Clean Cars II
3 proposal to you all.

4 --o0o--

5 STCD ZEV MARKET ADVANCEMENT SECTION MANAGER WONG:

6 Today, we will be sharing our proposal for the
7 Advanced Clean Cars II regulation. This is the first of
8 two hearings on the proposal. While the Board will not be
9 voting on the proposal today, we are recommending approval
10 of a resolution that directs next steps.

11 --o0o--

12 STCD ZEV MARKET ADVANCEMENT SECTION MANAGER WONG:

13 This proposal aims to transform the fleet in the
14 following ways.

15 First, by tightening the stringency of the ZEV,
16 zero-emission vehicle, regulation, we will be maximizing
17 the sale of ZEVs. In addition to the quantity of ZEVs,
18 the quality of ZEVs, both when the vehicle is new and when
19 it's used will also be key to a growing market. A suite
20 of provisions are included to ensure that future ZEVs are
21 high quality enough for consumers to replace their
22 combustion vehicle and therefore to ensure lasting
23 emission benefits from the regulation.

24 Consumers in low-income and underserved
25 communities, where used vehicle sales are significant,

1 will benefit from these assurance measures meant to ensure
2 better range and serviceability throughout the vehicle's
3 life.

4 Finally, the proposal amendments to the
5 low-emission vehicle, or LEV, regulation will continue to
6 clean up conventional internal combustion vehicles to
7 reduce exposure to vehicle pollution. Overall, staff's
8 proposal will provide the greatest benefit to frontline
9 communities nearest to roadways by controlling and then
10 eliminating tailpipe emissions from new passenger
11 vehicles.

12 --o0o--

13 STCD ZEV MARKET ADVANCEMENT SECTION MANAGER WONG:

14 Staff have engaged in an extensive public process
15 in developing the proposed ACC II regulations. Staff
16 sought input from public workshops, stakeholder working
17 groups, informal meetings, and phone calls, and a
18 community listening session. Staff conducted meetings
19 with automakers and component suppliers, community-based
20 organizations, and other interested stakeholders. Staff
21 also met with more than 30 national State and local
22 environmental and equity advocacy organizations to learn
23 more about the recommendation -- recommendations these
24 groups had regarding staff's proposals and how
25 transportation electrification could be made more

1 equitable.

2 --o0o--

3 STCD ZEV MARKET ADVANCEMENT SECTION MANAGER WONG:

4 Let's move into staff's proposal. Starting at
5 the base of this triangle of our ACC II proposal,
6 maximizing ZEV sales serves as the foundation for
7 achieving California's climate, air quality, and equity
8 goals.

9 --o0o--

10 STCD ZEV MARKET ADVANCEMENT SECTION MANAGER WONG:

11 Staff is proposing strong annual sales
12 requirements, as shown on this slide, for the 2026 and
13 subsequent model years. These percentage requirements for
14 the sale of ZEVs and plug-in hybrids have increased from
15 staff's initial proposal last May due to new automaker
16 projections even greater than what Advanced Clean Cars
17 would require if the proposal were not approved.

18 These percentage -- percentages keep automakers
19 on a stringent but achievable path to 100 percent
20 requirement not only in California, but in the states that
21 choose to follow California's regulation, while building
22 in appropriate flexibilities along the way. In adopting
23 staff's proposal, California would be the first and
24 largest vehicle market to require 100 percent electric
25 vehicle sales anywhere in the world.

1 --o0o--

2 STCD ZEV MARKET ADVANCEMENT SECTION MANAGER WONG:

3 The proposed ZEV requirement builds on the
4 momentum that started with Advanced Clean Cars. When the
5 Board adopted Advanced Clean Cars in 20 -- in 2012, there
6 were fewer than five electric vehicle models available for
7 sale in California. Now, there are over 70 models
8 available and more than one million ZEVs and plug-in
9 hybrids have been sold in California, leading the United
10 States in ZEV sales. Sales in 2022 are remaining strong
11 and growing at 16 percent ZEVs and plug-in hybrid sales
12 through March of this year.

13 --o0o--

14 STCD ZEV MARKET ADVANCEMENT SECTION MANAGER WONG:

15 Automakers representing the majority of
16 California's vehicle market have made significant
17 financial commitments to electrification announcing
18 targets for 50 to 100 percent ZEV sales as soon as the
19 2028 model year. As shown on this slide, these
20 announcements have been further supported in automaker
21 confidential projections submitted to CARB, which show
22 market growth in ZEVs and plug-in hybrids beyond 30
23 percent by 2025.

24 --o0o--

25 STCD ZEV MARKET ADVANCEMENT SECTION MANAGER WONG:

1 A growing number of states representing nearly 40
2 percent of the U.S. new vehicle market have adopted
3 California's Advanced Clean Cars regulations and have made
4 statewide electrification commitments. We will be hearing
5 from some of these states known as the Section 177 states
6 in a few minutes.

7 In addition to these states, we hope our ACC II
8 proposal will continue to drive strong federal action.
9 And let us not forget not all -- not all automakers just
10 produce vehicles for the U.S. market. Jurisdictions
11 around the world are adopting aggressive new policies.

12 --o0o--

13 STCD ZEV MARKET ADVANCEMENT SECTION MANAGER WONG:

14 This grow -- growth is due in part to falling
15 costs as economies of scale drive down electric vehicle
16 prices. This has enabled automakers to accelerate plans
17 to bring to market more highly capable ZEVs and plug-in
18 hybrids in more market segments. This slide shows cost
19 modeling staff has done on a 300-mile battery electric
20 vehicle compared to it's gasoline counterpart.

21 Depending on the vehicle type, staff's analysis
22 shows little to no cost difference between a 300-mile
23 batter electric vehicle and its gasoline counterpart in
24 most vehicles segments and the 2030 time frame. Lower
25 range battery elect vehicles would see cost parity even;

1 sooner.

2 --o0o--

3 STCD ZEV MARKET ADVANCEMENT SECTION MANAGER WONG:

4 I'm now going to take a deeper dive into the
5 design of the regulation. One lesson we have learned in
6 the 30-year history of implementing the ZEV regulation is
7 that the fundamental design and credit structure matter.
8 As ZEV technologies and the market develop more rapidly
9 than originally expected, past ZEV regulation credit
10 structures have resulted in most automakers readily
11 exceeding the ZEV requirements and are currently carrying
12 forward a significant surplus of credits.

13 For ACC II, we've started with the end in mind,
14 with the main tenet being volume certainty, achieving 100
15 percent zero-emission and plug-in hybrid vehicles. Staff
16 is proposing to simplify the structure, one credit, which
17 we're now calling value, for one vehicle. In addition to
18 simple crediting, staff is proposing to limit the life of
19 surplus values and rules that will count current model
20 years ZEV and plug-in hybrid production before considering
21 any extra values in the bank. In this manner, automakers
22 are more limited in their ability to create stockpiles of
23 credits to stave off future requirements.

24 Lastly, staff is proposing mechanisms that not
25 only allow for automaker banking, trading, and deficits,

1 but encourage early or direct action that would benefit
2 the transition to 100 percent, including action in
3 overburdened communities.

4 The next two slides will explore the proposed
5 mechanisms in detail.

6 --o0o--

7 STCD ZEV MARKET ADVANCEMENT SECTION MANAGER WONG:

8 The first mechanism I will talk about concerns
9 environmental justice values, which are available in the
10 first half of the proposed regulation. The intent of
11 these values is to encourage automakers to help increase
12 affordable access and exposure to ZEVs for priority
13 communities, and financial assistance programs.

14 Option 1 awards automakers additional vehicle
15 values for each new ZEV or plug-in hybrid sold at a 25
16 percent discount to qualifying, community-based, clean
17 mobility programs. Two programs currently available,
18 which aim to improve access to ZEVs in California, are the
19 Clean Mobility Options, or CMO, Pilot Program and
20 Sustainable Transportation Equity Project, or STEP.

21 Option 2 could help increase affordable access to
22 ZEVs and plug-in hybrids by providing an incentive for
23 automakers to offer lower priced vehicles, about \$20,000
24 for a passenger car and \$27,000 for a light truck. This
25 is especially important in early -- in the earlier years

1 of the proposed ACC II ZEV regulation when battery --
2 battery costs are higher.

3 Option 3 aims to increase the supply of off-lease
4 ZEVs and plug-in hybrids to dealerships participating in
5 California's financial assistance programs, meaning the
6 Clean Cars 4 All Program and the Financing Assistance for
7 Lower Income Consumers Project.

8 Staff met with implementers of current Clean Cars
9 4 All Program who indicated low volumes as one of their
10 highest concerns when it comes to successful
11 implementation of their program.

12 Though we believe the new ZEV stringency, which
13 is -- increases overall volumes solves much of this
14 problem, additional value for off-lease ZEVs and plug-in
15 hybrids being delivered to participating dealerships will
16 further enhance it -- availability.

17 --o0o--

18 STCD ZEV MARKET ADVANCEMENT SECTION MANAGER WONG:

19 The next mechanisms are intended to also
20 encourage early action, but also create various realistic
21 compliance pathways in California and the states adopting
22 Advanced Clean Cars II starting as soon as possible.

23 The first rewards manufacturers building ZEV
24 markets in large volumes prior to 2026 model year. This
25 mechanism is designed to reward progress in states still

1 coming up to speed or accelerated progress in more
2 developed markets, while not diluting overall regulatory
3 requirements.

4 The second mechanism allows automakers to pool
5 their overcompliant ACC II values across California and
6 states that have adopted California's ZEV regulation,
7 helping to smooth out state-to-state market fluctuations.

8 The third mechanism rewards Advanced Clean Cars I
9 overcompliance while emphasizing continued ZEV --
10 continuing ZEV and plug-in hybrid sales. This will allow
11 automakers to carry Advanced Clean Cars I credits into the
12 Advanced Clean Cars II ZEV regulation to use towards 15
13 percent of their annual requirement through the 2030 model
14 year in years where manufacturers have not met
15 requirements with a sufficient number of actual vehicles.

16 --o0o--

17 STCD ZEV MARKET ADVANCEMENT SECTION MANAGER WONG:

18 Now, I'm going to move to the next set of rules,
19 which affects the vehicles themselves. These are
20 measures -- these measure were developed in recognition
21 that consumers are an integral -- are integral to this
22 puzzle to get to 100 percent electric vehicles.

23 --o0o--

24 STCD ZEV MARKET ADVANCEMENT SECTION MANAGER WONG:

25 Even with good regulation design, the transition

1 to 100 percent will depend on every car buyer embracing
2 electric vehicles, even the most reluctant. Research
3 shows there's still concern over vehicle range, long
4 charging times, and the need for frequent charging.
5 Surveys show many respondents desire for electric range on
6 a future vehicle to be more than 300 miles. Also, many
7 car buyers report public charging to be insufficient and
8 that they will have no where to charge at home. In fact,
9 lack of Level 2 charging at home causes both frustration
10 for current owners and is an overall barrier to electric
11 vehicle uptake.

12 Consumers are also deterred by the higher
13 price -- purchase price, and the lack of electric vehicle
14 models available in segments they care most about.
15 There's uncertainty over depreciation, as well as battery
16 life, and mechanic availability to repair and service
17 electric vehicles. Lastly, many car buyers are not fully
18 aware of the attributes of electric vehicles to feel
19 comfortable making the switch. Left unresolved, these
20 barriers have the potential to hinder the transition to
21 California's electric future.

22 --o0o--

23 STCD ZEV MARKET ADVANCEMENT SECTION MANAGER WONG:

24 In recognition of this, the following proposals
25 are intended to address consumer concerns helping them

1 replace a gasoline vehicle with an electric vehicle.
2 First, staff is proposing a minimum electric label range
3 of 150 miles when the vehicle is new. While we expect not
4 automakers will be -- will continue to offer vehicles far
5 above the 150 miles of range as they are today, minimum
6 range requirements are important to ensure lower cost
7 vehicles are able to meet the daily driving needs of a
8 typical driver.

9 But we can't just think about the vehicle when
10 it's new. Therefore, staff is proposing a durability
11 requirement to ensure as least 80 percent of the original
12 range of the vehicle is maintained over 10 years. In the
13 first five years, we're propose -- proposing to reduce
14 this requirement to 75 percent, in recognition of products
15 that have already been designed and ongoing supply
16 contracts.

17 Many automakers are already making vehicles today
18 that meet or exceed this 80 percent durability
19 requirement, but a 75 percent threshold in the early years
20 will help more automakers transition in to these
21 requirements. To give you a sense of how these two
22 requirements work together, 150-mile battery electric
23 vehicle at 10 years would still have over 100 miles of
24 electric range.

25 In addition to the durability requirement, staff

1 is proposing minimum battery and propulsion-related
2 warranty requirements. Staff is proposing to align with
3 where most of the industry currently is and require a
4 minimum 8-year, 100,000 my battery warranty. However,
5 battery state of health will also be required to be
6 disclosed to the driver and Linked to this warranty
7 increasing the transparency to the driver.

8 --o0o--

9 STCD ZEV MARKET ADVANCEMENT SECTION MANAGER WONG:

10 Without access to quick and reliable charging,
11 consumers will remain hesitant to ZEV technology. This is
12 especially true for lower income car buyers and those
13 living in multi-unit or rental housing, since they may be
14 more reliant on public charging, which is generally more
15 expensive, less reliable, and less conveniently located.

16 Staff is proposing to require electric --
17 electric vehicles to come equipped with a highly capable
18 charge cord. By requiring all vehicles to have an
19 included charge cord that is least Level 1 and Level 2
20 capable, the cord can meet the charging needs of a much
21 larger portion of vehicle owners, as vehicle ranges grow
22 and buyer demographics move away from single family home
23 dwellers. This is particularly important for residents
24 who do not -- who have not installed a home charger, but
25 may still have access to a basic 110 or 220 outlet.

1 However, not everyone will access -- have access
2 to overnight charging. In the future, a growing market of
3 drivers may be more reliant on public DC fast charging.
4 Because -- because of all of this, all battery electric
5 vehicles will be required to be fast charge capable. And
6 those vehicles with fast charging ability will need to
7 conform to one fast charging inlet standard, the SAE J1772
8 combined -- combined charging standard. This standard
9 reflects the inlet available on the majority of ZEV models
10 available today.

11 --o0o--

12 STCD ZEV MARKET ADVANCEMENT SECTION MANAGER WONG:

13 Access to data has been an important cornerstone
14 of CARB regulations. Prospective drivers, especially in
15 the used vehicle market, should have the ability to
16 evaluate the state -- state of the vehicle and the health
17 of the bat -- battery.

18 Repair technicians, particularly independent
19 technicians, need to be able to access vehicle data,
20 diagnostic tools, and automaker developed diagnostic and
21 repair information to assess the vehicle's need for repair
22 and carry out those repairs appropriately. Staff's
23 proposed data standardization and disclosure requirements
24 will enable these data to become accessible on all ZEVs.

25 Though it is expected that ZEVs will likely need

1 fewer propulsion-related repairs than gasoline vehicles,
2 the sheer number of vehicles in California require a
3 substantial repair network outside of dealerships.
4 Therefore, as we currently require for all internal
5 combustion engine vehicles, staff proposes to require
6 automakers to disclose all propulsion-related repair
7 information to independent repair shops, where most people
8 get their vehicles repaired.

9 Finally, batter labeling will be required for all
10 vehicles with a large battery on board, which includes
11 convectional hybrids, plug-in hybrids, and ZEVs. Battery
12 labeling can also support greater battery use and
13 recycling, helping to promote battery material at a lower
14 cost and with the reduced need for obtaining new raw
15 materials.

16 --o0o--

17 STCD ZEV MARKET ADVANCEMENT SECTION MANAGER WONG:

18 In light of a hundred percent standard by 2035,
19 staff believes that plug-in hybrid electric vehicles will
20 still play a role in a developing ZEV market. Plug-in
21 hybrid electric vehicles may also remain a critical choice
22 for low-income drivers as well as evidence and data from
23 the Clean Cars For All Program.

24 Participants in that program swapped out older
25 vehicles for a plug-in hybrid at four times the rate that

1 they did for a battery electric vehicle. However, GHG
2 reduction targets and ambient air quality standards
3 require CARB to balance the risks and emissions from
4 gasoline usage in plug-in hybrid electric vehicles.

5 Therefore, staff is proposing a minimum of 50
6 miles of electric range for a plug-in hybrid with a short
7 phase-out of plug-in hybrid electric vehicles with less
8 than 50 miles range in the first few years to ensure most
9 consumers can drive their daily commute on electric.

10 In addition, staff is proposing a cap, such that an
11 automaker may not use plug-in hybrids to meet more than 20
12 percent of its compliance obligation in any year.

13 With that, I'll turn it over to Marko Jeftic who
14 will summarize our proposal to reduce emission from
15 internal combustion engine vehicles.

16 --o0o--

17 STCD AIR RESOURCES ENGINEER JEFTIC: Thank you,
18 Anna. The final component of the Advanced Clean Cars II
19 proposal consists of the LEV regulations that will
20 continue emission reductions from combustion engine
21 vehicles.

22 --o0o--

23 STCD AIR RESOURCES ENGINEER JEFTIC: Reducing
24 emissions from internal combustion engine, or ICE,
25 vehicles remains an important challenge in meeting federal

1 air quality requirements and climate goals.

2 In the near term, ICEs are still expected to make
3 up a large share of new vehicle sales. And once sold,
4 they can remain on the road for many years. In fact, our
5 projections show that they will make up a significant
6 portion of the statewide fleet even beyond 2035. As a
7 result, it is critical to continue reducing emissions from
8 combustion engine vehicles.

9 --o0o--

10 STCD AIR RESOURCES ENGINEER JEFTIC: As a part of
11 ACC II, the proposed LEV regulations will aim to reduce
12 emissions from combustion vehicles by increasing the
13 stringency of the existing standards and adding new
14 requirements that will help control emissions over a wider
15 variety of operating conditions.

16 --o0o--

17 STCD AIR RESOURCES ENGINEER JEFTIC: First, let's
18 begin with the changes to the NMOG plus NOx fleet average
19 standards. Under current rules, automakers are allowed to
20 use zero-emission vehicles to comply with the NMOG plus
21 NOx fleet average standards. As ZEV sales are expected to
22 substantially increase beyond 2025, continuing to include
23 ZEVs in the fleet average could potentially result in a
24 very large reduction in emission requirements for ICE
25 vehicles.

1 Therefore, to ensure combustion vehicles remain
2 clean, staff's proposal will gradually phase out ZEVs from
3 the fleet average by the 2029 model year. In addition,
4 staff is also proposing to eliminate the dirtiest emission
5 certification bins. This will reduce the maximum allowed
6 emission levels from ICEs from 160 to 70 milligrams per
7 mile.

8 --o0o--

9 STCD AIR RESOURCES ENGINEER JEFTIC: Next, let's
10 go over our plans to improve real-world emission control
11 during aggressive driving and cold starts. For NMOG plus
12 NOx, current rules allow automakers to certify aggressive
13 driving emissions, such as those during high speed driving
14 on freeways, by averaging them with urban driving
15 emissions that occur at much lower speeds on city streets.
16 However, staff found that the averaging approach allowed a
17 small portion of the fleet to have poor emission control
18 during aggressive driving, with emissions that were
19 disproportionately higher compared to urban driving.

20 Therefore, the ACC II proposal will eliminate the
21 averaging method and instead require all vehicles to meet
22 aggressive driving emission standards that are equivalent
23 to the urban driving standards. And for particulate
24 matter emissions, staff's proposal will reduce the PM
25 standard for the aggressive driving test cycle from 6 to 3

1 milligrams per mile. The proposed standard is based on
2 certification data that shows a large majority of vehicles
3 can already emit below 3 milligrams per mile.

4 As for cold starts, which typically exhibit a
5 spike of emissions at the start of a trip when the engine
6 and emission control devices are still cold, staff
7 identified three areas where emission control can be
8 improved. First, staff found that vehicle cool downs
9 between trips can affect cold-start emissions with the
10 highest emissions occurring for cool downs of 30 minutes
11 to 3 hours, where as current standards only regulate cool
12 downs of 12 hours or more.

13 Therefore, staff is proposing new standards that
14 will control cold-start emissions for any cool down of 10
15 minutes or longer. Second in-use data found that 60
16 percent of real-world trips had an earlier drive-away than
17 current certification tests. And test data showed that
18 early drive-aways resulted in higher cold-start emissions
19 for all vehicles. As a result, staff's proposal includes
20 new tests and standards that will reduce emissions from
21 early drive-aways.

22 And third, many plug-in hybrids can have a big
23 burst of cold-start emissions if the transition from
24 electric driving to combustion engine driving occurs under
25 high power conditions, such as accelerating on a freeway

1 on-ramp. To address this issue, staff have developed new
2 high-power, cold-start emission standards based on the
3 best performing plug-in hybrids.

4 --o0o--

5 STCD AIR RESOURCES ENGINEER JEFTIC: Next, I will
6 present two changes we are making to the evaporative
7 emission standards. The first proposed change will
8 tighten the standard from 0.05 to 0.01 grams per mile for
9 running loss emissions, which occur when fuel vapors
10 escape from the fuel system while the vehicle is driven.

11 The aim of this proposal is to clean up the
12 highest emitting vehicles and to make sure that good
13 designs remain the norm. The second change is to ensure
14 the vehicle's evaporative control system is properly sized
15 to contain puff emissions, which can occur if the fuel
16 vapor canister is overwhelmed during a sequence of driving
17 and refueling on a hot day. To help contain puff
18 emissions, staff's proposal will add a new minimum size
19 requirement for the canister.

20 --o0o--

21 STCD AIR RESOURCES ENGINEER JEFTIC: We are also
22 making updates to our regulations for medium-duty
23 vehicles, such as large pickup trucks and delivery vans.

24 First, the proposal will tighten the fleet
25 average requirements for NMOG plus NOx emissions for both

1 Class 2b and Class 3 medium-duty vehicles. And similar to
2 the light-duty fleet average, zero-emission vehicles will
3 be removed from the fleet average and dirtiest emission
4 bins will be eliminated.

5 Second, the proposal will add new stand-alone
6 standards to better control NMOG plus NOx emissions under
7 aggressive driving conditions and will also tighten the PM
8 emission standard for aggressive driving for all
9 medium-duty vehicles.

10 Finally, many medium-duty vehicles are used for
11 towing applications, but staff's testing found that towing
12 operations was not represented well by current
13 certification tests. Therefore, the proposal will adopt
14 new on-road test requirements that are equivalent to the
15 rules recently adopted in the Heavy-Duty Omnibus
16 Regulation. The new on-road testing will apply to all
17 Class 2b and Class 3 vehicles that have a gross combined
18 weight rating of 14,000 pounds or more.

19 --o0o--

20 STCD AIR RESOURCES ENGINEER JEFTIC: Now, let's
21 discuss the impacts and benefits of all the proposed ACC
22 II regulations.

23 --o0o--

24 STCD AIR RESOURCES ENGINEER JEFTIC: The direct
25 costs for the proposed ACC II regulations are projected to

1 be \$212 billion in total between 2026 and 2040. This
2 includes over \$40 billion from increased incremental costs
3 of ZEVs and home chargers, and increased costs for
4 electricity, sales tax, vehicle registration fees, and
5 insurance. Since automakers will need to sell ZEVs and
6 plug-in hybrids in all vehicle segments, including larger
7 passenger trucks, the proposed regulations have the effect
8 of increasing the fleet-wide average vehicle price. In
9 2062, staff estimate the average incremental price
10 increase will be \$500 across the industry, and by 2035, it
11 will be \$1,100.

12 While the proposed -- while the proposal
13 increases some costs, staff estimate an overall cost
14 savings. The direct savings of the regulations are
15 projected to be \$294 billion over the same time period.
16 This includes savings from less gasoline purchased, lower
17 vehicle maintenance costs, and use of vehicle-to-grid
18 services. The result, the total net savings from the
19 regulation are projected to be \$81.8 billion statewide.
20 Note, this number does not include the cost benefits from
21 improved public health or the social cost of carbon. If
22 these benefits were also included, the cost savings would
23 be much higher.

24 --o0o--

25 STCD AIR RESOURCES ENGINEER JEFTIC: For further

1 context, this slide shows one prominent example of how
2 much money a consumer could save by purchasing a ZEV
3 instead of an ICE passenger car. In this example, a 300
4 mile range BEV owner without a home charger would save
5 over \$3,000 over a 10-year period for a 2026 model year
6 vehicle, and over \$7,000 for a 2035 model year vehicle.

7 These net savings represent the total cost of
8 ownership and include the incremental price of the
9 vehicle, fuel costs, registration costs, maintenance and
10 other factors. If the owner had access to vehicle
11 charging at home, staff projects bigger savings, because
12 electricity prices tend to be lower at home.

13 For this analysis, vehicle purchase incentives
14 were not included, given the uncertainty that public funds
15 will be available in the future. But if drivers do have
16 access to incentives, their savings would be even larger
17 than shown here.

18 --o0o--

19 STCD AIR RESOURCES ENGINEER JEFTIC: Let's take a
20 look at how the ZEV and LEV proposals add up in terms of
21 emission reductions. Shown here are projections of
22 well-to-wheel NOx and greenhouse gas emissions from 2026
23 to 2040.

24 As shown in the figures, ACC II is expected to
25 reduce light-duty NOx emissions by 26 percent in 2037,

1 which will be vital to the attainment of the 70 parts per
2 billion ozone standard. These NOx reductions are also
3 important to mitigate the public health impacts from
4 regional ozone, which are especially troublesome for lower
5 income communities.

6 ACC II regulations are also expected to reduce
7 GHG emissions from the light-duty vehicle sector by 50
8 percent in 2040, which will be essential for helping the
9 State achieve its 2045 carbon neutrality goal. In
10 absolute terms, the total GHG emission reductions from
11 2026 to 2040 are projected to be 383 million metric tons.
12 This large reduction will be important to slow the effects
13 of climate change. ACC II is also projected to have
14 reductions in PM2.5 emissions, though the scale of PM2.5
15 emissions from light-duty gasoline vehicles is very small
16 compared to other sectors.

17 --o0o--

18 STCD AIR RESOURCES ENGINEER JEFTIC: In addition
19 to the emission benefits, ACC II regulations are also
20 expected to substantially reduce statewide consumption of
21 gasoline and ethanol fuels. With the transition to ZEVs,
22 the light-duty fleet is projected to consume 63 percent
23 less gasoline in 2040 compared to business-as-usual
24 projections without the proposed regulations.

25 A shift to electricity and hydrogen fuels will

1 also protect consumers from impacts of volatile price
2 fluctuations at the pump. Gasoline prices in staff's
3 total cost analysis are based on CEC's most recent
4 projections, which were \$3.92 per gallon in 2026 rising to
5 \$4.34 per gallon by 2035.

6 Consumer cost savings would have been even larger
7 had we used prices as seen at the pump today. The
8 volatility in gasoline prices is caused in part by the
9 global nature of oil supply. Electricity and hydrogen by
10 contrast will be predominantly produced in California.
11 And although electricity prices are expected to rise over
12 time, they are projected to be much more stable and
13 predictable than oil prices.

14 --o0o--

15 STCD AIR RESOURCES ENGINEER JEFTIC: Since the
16 release of the staff report in April, staff has continued
17 to address stakeholder feedback from the original
18 proposal. Available on our program webpage and in the
19 back of the hearing room, staff is proposing several
20 changes that reflect continued work with stakeholders.

21 These changes include updates to ZEV assurance
22 measures, such as temporary relief for the new ZEV range
23 durability standard, release updates to data and in-use
24 procedures, and updated warranty claim levels.

25 Additionally, staff has worked with automakers to

1 establish a cap for ACC 1 ZEV credits, add incentives for
2 fuel cell vehicles delivered through 2030, and include the
3 option to count medium-duty ZEVs.

4 Lastly, staff is proposing to further clean up
5 the regulatory text to improve readability and clarify
6 issues raised by stakeholders over the 45-day comment
7 period.

8 --o0o--

9 STCD AIR RESOURCES ENGINEER JEFTIC: In
10 accordance with California Environmental Quality Act, or
11 CEQA, guidelines, staff prepared a Draft Environmental
12 Analysis for the proposed regulations. The draft analysis
13 was released for a 45-day comment period, and next, staff
14 will be preparing responses to comments received. Staff
15 will present to the Board the written response to comments
16 and the Final Environmental Analysis later this summer.

17 --o0o--

18 STCD AIR RESOURCES ENGINEER JEFTIC: While the
19 Board is not voting on the proposal today, staff
20 recommends that the Board adopt the resolution to move
21 forward with the proposed modifications presented here and
22 return to the Board after the proposed modifications have
23 been released for a 15-day public comment period, and the
24 Final Environmental Analysis is complete. We are
25 currently expecting to return in August when you will vote

1 on the proposed regulations.

2 I would now like to turn it over to Tyson
3 Eckerle, Deputy Director for zero-emission vehicle market
4 development at the Governor's Office of Business and
5 Economic Development who will outline California's broader
6 strategy for achieving 100 percent ZEV sales.

7 Tyson.

8 --o0o--

9 TYSON ECKERLE: Great. Well, thank you very much
10 and thanks, Board, for having me. It's great to be back
11 here. I've presented a few times on the ZEV market
12 development strategy. I'm not going to go into too much
13 detail today, but kind of give you just a high level view.
14 And last April, in fact, we went into a deep dive in
15 infrastructure, which is absolutely critical to enabling
16 the ZEV market, so I won't rehash that.

17 And today's time, I really just want to give a
18 flavor for the work that we're doing as a collective group
19 of agencies to help enable the market. And I wanted to
20 start by stating the obvious. I think CARB and the CARB
21 regulations and regulatory framework are the star of the
22 show. I think it's the reason we have a market, plain and
23 simple.

24 The regulations and investments you've made over
25 the years have made this whole thing possible. And it's

1 very clear that regulatory certainty drives investment,
2 creates market opportunities. And so I can't underscore
3 the importance of what you're considering today and in the
4 future.

5 And, you know, just kind of sitting here thinking
6 about what kind of an analogy could be used. But if you
7 think about the State, and, you know, we're -- as a
8 garden, you know, really the -- the CARB's regulations and
9 the regulations developed by this body really are fertile
10 soil of the market. And then you have, you know,
11 vehicles -- vehicle incentives, the low carbon fuel
12 standard that's kind of the rain. CEC and the utility
13 investments are the seeds. And -- but really, if you take
14 that analogy, all of us in the State are gardeners. And
15 our job really is to kind of -- to grow the thing, to pull
16 out the weeds and create new markets for the vegetables
17 that are created. I was trying to figure out the best way
18 to fit industry into that analogy.

19 They're kind of all those things too. And so is
20 NGOs and everything, but it is kind of -- it takes all of
21 us to make this happen. And if there's one thing that's
22 really clear is that we can't do this alone. And so if
23 you go to the next slide --

24 --o0o--

25 TYSON ECKERLE: -- you've seen this before. You

1 know, it's the ZEV strategy overview. And, you know, the
2 whole premise of the ZEV market development strategy is
3 organizing stakeholders around a collective framework.
4 And so we need all of us gardeners to be working together.
5 And, you know, so we're organized around the four pillars
6 of the market. You have vehicles, infrastructure, end
7 users and workforce. And this -- in 2021, we put a lot of
8 focus on infrastructure and that will continue.

9 Going forward into 2022, we are really diving
10 deep into end users and workforce in particular, because
11 the -- those are the areas that we think need a lot of
12 focus going forward.

13 I want -- go to the next slide.

14 --oOo--

15 TYSON ECKERLE: You know, there -- we have 29
16 agencies in the ZEV market development framework. We're
17 adding more each day -- well, not -- that's -- that's an
18 overstatement, but we're add -- we are adding agencies.
19 You'd run out pretty quickly if we're doing it each day.
20 So but just yesterday, for example, we're talking with
21 State Parks about, you know, electrifying the -- a bunch
22 of their properties as much as possible, and creating
23 access, and figuring out what we can do as a state to make
24 it more simple for a private market to come in and invest
25 there.

1 So each agency, as you know, submits action plans
2 every year. And so I was just going to go, you know, kind
3 of some of the highlights that happened in 2012 and then
4 what we're looking forward to in 2022.

5 If you go to the next slide --

6 --o0o--

7 TYSON ECKERLE: -- I'm not going to read all of
8 these off, but, you know, most of vehicle action is
9 through the Air Resources Board, the regulations that
10 you've done, but you also have stuff like Caltrans
11 purchasing 15 electric sweepers -- sweeper trucks. We
12 have the draft battery recycling report that was released
13 in 2021.

14 On the infrastructure side, we're making really
15 good progress on permit streamlining. It's a slow slog,
16 but it's a -- it's a continual. We just passed 200
17 streamlined cities and counties yesterday -- or actually
18 we're at 201 now, which is pretty exciting. And Caltrans
19 and DGS have been making big investments in charging
20 infrastructure. You see that close to 700 ports that
21 Caltrans has been installed. I think the -- you know,
22 it's important to point -- to point out the building
23 codes.

24 So all of these takes collective action and all
25 of this is -- CARB staff, in particular, plays a huge role

1 in helping make a lot of things happen, building codes in
2 partic -- in particular.

3 If you go to the next slide --

4 --o0o--

5 TYSON ECKERLE: -- just on the end user piece,
6 you know, we have our consumer awareness grant. And it --
7 and so that we've very excited about that -- that
8 happening. We have the ZEV strategy, which feels like
9 more than a year ago, but that was just February 2021.
10 You know, this -- big things happen, like with the
11 ratepayers paying the cost of EV service extensions
12 separately metered. That's a big, big deal in terms of
13 creating market certainty. If you're going to put
14 charging infrastructure in that you can -- that the
15 utility will be able to bring that.

16 Then on the workforce side, we're really getting
17 a lot of focus. We were just meeting with the labor
18 agency yesterday, but there's a lot of excitement among
19 workforce, so we -- because we are the number one
20 manufacturing state in the country right now for
21 zero-emission vehicles. And a lot of that is because of
22 our workforce. And so we're trying to amplify that. You
23 know, they have that first two cohorts of the High Road
24 Training Partnerships that were done last year. The
25 Energy Commission has their workforce pilot solicitation

1 that's coming out.

2 And so that's just a little bit of the flavor
3 kind of organized around that four pillars. We have our
4 ZEV market development statistics and market report. I
5 did -- didn't go over that this time, but I showcased it a
6 little bit last time. There's, you know, a lot of great
7 stuff happening.

8 Then if you go to the next slide --

9 --o0o--

10 TYSON ECKERLE: -- just kind of looking forward.
11 I did want to spend just little bit time -- of time on the
12 end user. You know that first bullet, we're talking about
13 ZEV readiness. Like if you really summarized it, we're
14 just trying to make it easier for local leaders to
15 participate and contribute to the market by, you know,
16 connecting them through. So the permit streamlining, we
17 have a map, but we can also do that with -- and we're
18 working with the Energy Commission in particular on
19 building code and reach code adoption. Streamlining the
20 energization process has become a big thing, once -- you
21 know, once we figured out permit streamlining a little bit
22 better. The connection to the grid, we're trying to
23 create more predictability there. And the Public
24 Utilities Commission has an ongoing process that
25 the utilities are submitting to, where we should have more

1 defined timelines there.

2 The reliability, I think we're hearing about that
3 a lot for both charging and hydrogen fueling
4 infrastructure, and acces. You know, organizing around
5 making it easier for consumers, so that when they go
6 there, it will be simple, they get charged and fueled.

7 Alignment of funding opportunities and fleets and
8 procurement support, we're really trying to make it easier
9 for fleet operators and businesses to get into the market.
10 I think the funding opportunities -- you know, just the
11 fact that the Energy Commission and the Air Resources
12 Board are doing joint budget change proposals at 10
13 billion in the Governor's proposed budget shows how we're
14 trying to pull those pieces together. So if you look at
15 HVIP and the EnergIIZE programs, we're trying to make it
16 as simple as possible for fleets to get into the deal.

17 And then, you know, we're very excited about that
18 consumer awareness funding. And it's really about raising
19 awareness, but also increasing market confidence. You
20 know, it's that idea of getting neighbor to neighbor.

21 And so with that, you know, we're very excited
22 about the year ahead, but really what underpins everything
23 is the regulation, and the regulatory environment, and
24 everything that -- and the innovation that that drives.
25 And we're excited about the staff proposal, especially as

1 you look at the equity layers that have gone on and that's
2 kind of -- that's the first principle in our ZEV market
3 development strategy.

4 And so definitely happy to talk with any of you
5 anytime to help talk about all the other stuff that's
6 happening at State agencies, but appreciate your time and
7 attention on this.

8 And with that, I wanted to hand it over to
9 Connecticut with Katie Dykes.

10 --o0o--

11 KATIE DYKES: Great. Well, good afternoon, and
12 thank you so much for the opportunity to testify today.
13 My name is Katie Dykes and I'm joining this hearing
14 remotely from here in Hartford, Connecticut. I serve as
15 the Commissioner of the Connecticut Department of Energy
16 and Environmental Protection. I'm joined today by
17 colleagues from Massachusetts, from New Jersey, New York,
18 and Oregon to express our state's strong support for ACC
19 II and LEV IV.

20 The number of Section 177 states has grown from
21 11 to 17 over the past two years, as California,
22 Minnesota, Nevada, New Mexico, Virginia, and Washington
23 have moved to adopt California's tailpipe emission
24 standards. This is an exciting development that has
25 further strengthened the geographic diversity of Section

1 177 states and sent strong signals to the EV market as the
2 Section 177 ZEV states now represent 25 percent of the
3 U.S. light-duty new car sales market.

4 --o0o--

5 KATIE DYKES: ACC II is a critically important
6 climate and air quality strategy in the Section 177
7 states. Like California, the Section 177 states have
8 aggressive long-term and interim GHG emission reduction
9 targets. Here in Connecticut, the Global Warming
10 Solutions Act, or GWSA, a state statute that was enacted
11 in 2008, established a requirement for our state to reduce
12 the level of economy-wide greenhouse gas emissions by 80
13 percent by 2050 And a mid-term target of 45 percent below
14 2001 level by 2030.

15 Connecticut's most recent greenhouse gas
16 inventory indicates that our state is not on track to meet
17 its 2030 target and emissions from the transportation
18 sector remain a key obstacle for Connecticut to achieve
19 its Global Warming Solutions Act targets.

20 In the Section 177 states, the transportation
21 sector accounts for roughly 50 percent of state greenhouse
22 gas emissions and passenger cars and trucks are
23 responsible for half of those emissions.

24 Transition -- transitioning to ZEVs is also
25 necessary for our states to achieve and maintain

1 attainment with National Ambient Air Quality Standards for
2 ozone, which is a persistent threat in the north east and
3 in Section 177 states and other parts of the country.
4 Light-duty vehicles account for nearly a quarter of NOx
5 emissions in the Section 177 states.

6 In fact, Connecticut has struggled to overcome a
7 persistent ozone non-attainment problem for almost 50
8 years. During that time, Connecticut's citizens have
9 suffered the public health and economic impacts from ozone
10 nonattainment. This past year, for example, Connecticut
11 experienced 21 days with unhealthy ozone levels. EPA's
12 current rulemaking proposes to reclassify Fairfield, New
13 Haven, and Middlesex counties here in Connecticut as
14 severe non-attainment with respect to the 2008 National
15 Ambient Air Quality Standards, or NAAQS, for ground level
16 ozone.

17 Connecticut desperately needs reductions of
18 smog-forming NOx to make progress in addressing our
19 persistent ozone non-attainment problem. And in the
20 meantime, our citizens, especially those residing in
21 overburdened, disadvantaged communities continue to suffer
22 the harms of unhealthy air.

23 Connecticut needs to pursue the few remaining
24 emission reductions strategies. Adopting the California
25 standards is one of those critical strategies. It's

1 crucial for the health and well-being of every person
2 living in our state.

3 ACC II promises to deliver substantial reduction
4 in smog-forming NOx and fine particulate matter.
5 Moreover, the transition to ZEVs will provide improved
6 public health outcomes, especially in low income and
7 frontline communities located near heavily traveled
8 roadways.

9 In short, ACC II offers Section 177 states a core
10 strategy for meeting state climate and air quality goals.

11 And now I'll turn it over to my colleague from
12 New Jersey.

13 --o0o--

14 PEG HANNA: Thank you so much, Commissioner
15 Dykes, and thank you, California, for allowing us to
16 testify here today.

17 As a Section 177 state, we recognize that
18 complementary policies and programs are also needed and
19 should be expanded to help support the growing ZEV market.
20 For the past decade, New Jersey and the other 177 states
21 have worked collaboratively through the multi-state ZEV
22 task force facilitated by NESCAUM and successfully pursued
23 a wide range of market-enabling initiatives. I wanted to
24 give you just a few quick examples today.

25 The 177 states have established incentives for

1 ZEVs and associated charging infrastructure. Here in New
2 Jersey, we have a long-standing It Pay\$ to Plug In grant
3 program, which has awarded \$11 million so far for Level 2
4 and fast charging stations at workplaces, multi-unit
5 dwellings, and public locations.

6 In addition, three of our four utilities have
7 grant programs for the EVSE make ready associated with the
8 charging infrastructure. Combined, these programs will
9 fund 1,300 fast chargers and 5,000 Level 2 chargers. We
10 also have a ChargeUp New Jersey program, which is cash on
11 the hood for electric vehicles. That program has awarded
12 \$60 million in two tranches over the short period of only
13 11 months. And they are ready to relaunch with another
14 \$35 million in funding.

15 We have also engaged dealerships in ZEV training
16 programs as well as ride and drive events. New Jersey has
17 a dealer training program called PlugStar. This program
18 is funded through a unique partnership with the New Jersey
19 Coalition of Automotive Retailers, which is our New Jersey
20 car dealers association and ChargeEVC. We currently have
21 16 PlugStar certified dealers in New Jersey, and that
22 number is growing every day.

23 Post-training surveys from the dealerships have
24 been uniformly positive. We have also, as a region,
25 launched *Drive Change. Drive Electric.* The nation's

1 first joint state and industry funded consumer outreach
2 and education campaign. In the campaign's most recent
3 survey of consumers and participating states, the number
4 of consumers who say they will consider an EV for their
5 next purchase has jumped by 16 percent compared to 2018.
6 In addition, 62 percent of the survey respondents say they
7 are likely to consider a new or used EV for their next
8 purchase. This is strong evidence that consumer interest
9 is growing.

10 We, as 177 states, have also developed best
11 practices to support open, reliable, and consumer-friendly
12 charging networks, permit streamlining for fast charging,
13 and right to charge laws. In fact, New Jersey developed a
14 first-in-the-kind -- first-of-its-kind law that
15 streamlined the permitting process for all EV charging
16 installations and requires EV charging stations and make
17 ready for new multi-unit dwellings and parking lots. We
18 are also developing a toolkit to get EV charging stations
19 in existing multi-unit dwellings.

20 We have engaged with State utilities and utility
21 regulators to spur utility investment in transportation
22 electrification programs and we've also begun electrifying
23 our own public sector fleets. I'm going to now turn it
24 over to Massachusetts.

25 --o0o--

1 CHRISTINE KIRBY: Thank you, Peg, and good
2 morning, Chair Randolph and members of the board. I am
3 Christine Kirby. I am the Assistant Commissioner of the
4 Massachusetts Department of Environmental Protection and I
5 am very pleased to be part of this panel on ACC II. You
6 heard from New Jersey that EV infrastructure deployment
7 has been a big focus of our effort. We are working hard
8 to get and stay ahead of ZEV adoption by building out our
9 infrastructure network and we have been at this for many
10 years.

11 As you can see from this slide, the pace of
12 charging station deployment and development in the Section
13 177 states is accelerating very quickly. Outside of
14 California, nearly half of the nation's public charging
15 infrastructure has been deployed in the Section 177
16 states.

17 Importantly, public utility regulators in our
18 states have approved expansive, make-ready utility
19 charging infrastructure programs. In fact, 76 percent of
20 utility funding outside of California is in the Section
21 177 states.

22 At MassDEP, we are partnering -- partnering with
23 our investor-owned utilities to leverage our funding with
24 utility funding approved by our Department of Public
25 Utilities. The Section 177 states are investing the

1 maximum amount of VW funds allowed under the settlement in
2 infrastructure deployment. In Massachusetts, this funding
3 has supported and supplemented other funds to deploy DC
4 fast charging, workplace and fleet charging, multi-unit
5 dwelling charging, and public access charge -- charging,
6 excuse me.

7 To date, MassDEP has funded close to \$40 million
8 in infrastructure projects under the Massachusetts
9 Electric Vehicle Incentive Program. In addition to the 40
10 million, the Department of Public Utilities has approved
11 80 million in utility funding for infrastructure, with
12 another 471 million pending approval. That's in front of
13 the DPU now.

14 Earlier this year, the Baker-Polito
15 administration was pleased to announce over 13.1 million
16 in funding for DC fast charging grants to significantly
17 expand our network and to ensure geographic coverage of
18 these stations.

19 We leveraged funds from the VW settlement with
20 the Massachusetts Climate Mitigation Trust and the utility
21 programs to fund 150 locations and 306 charging ports at
22 publicly and privately owned vacation -- locations. As
23 part of these grant decisions, like our other grants, we
24 prioritized communities with environmental justice areas
25 for funding. And I'm pleased to say that 37 percent of

1 the grant funds were dedicated to EJ areas.

2 In closing, the results of the investments across
3 our states has -- are reflected in a sharp increase in the
4 number of public charging stations over the past three
5 years. In 2021 alone, the states added 7,000 new charging
6 ports. And that's a 23 percent increase over 2020 levels.
7 That is not an insignificant achievement. Thank you for
8 this opportunity and I will now turn it over to Oregon.

9 --o0o--

10 RACHEL SAKATA: Good morning, Chair Randolph and
11 members of the Board. My name is Rachel Sakata and I'm a
12 Senior Air Quality Planner at the Oregon Department of
13 Environmental Quality. And I'd like to touch on the state
14 of ZEV sales in the Section 177 states.

15 Now, as market momentum and consumer demand for
16 electric vehicles continue to accelerate, EV sales are in
17 an upward trajectory in the Section 177 states. In the
18 past three years, the EV market share has more than
19 doubled. And even amidst the 2021 supply chain issues,
20 ZEV sales increased in every quarter.

21 Now, the Section 177 states are in a very
22 positive growth trajectory and consistently are
23 outperforming both the non-ZEV states and the national
24 average for electric vehicles sales, but they still do lag
25 behind California.

1 And that's not surprising, given that
2 California's ZEV market has had more time to mature due to
3 the so-called travel provision, which until 2018 allowed
4 manufacturers to delay marketing ZEVs in the Section 177
5 states by giving automakers credits in the Section 177
6 states for cars sold in California.

7 Now, in Oregon, since 2018, we've seen
8 considerable growth with our ZEV sales at almost 8 percent
9 of the overall market share in 2021. And as we see ZEV
10 sales continue to increase, we are ensuring that our low
11 and moderate income consumers are not left behind in the
12 EV market. Thus far, through our rebate program, we've
13 provided over \$6 million in dedicated funding to these
14 consumers for the purchase or lease of a new or used
15 electric vehicle.

16 We also have a dedicated education and outreach
17 effort focused on reaching out to low and moderate income
18 consumers to inform them about the benefits of EVs, the
19 availability of rebates, and charging accessibility.

20 And so now at this point, I'd like to pass it on
21 to my colleague in New York.

22 --o0o--

23 CHRISTOPHER LALONE: Thank you, Rachel. My name
24 is Christopher LaLone. I am the Director of the Division
25 of Air Resources with New State Department of

1 Environmental Conservation.

2 In September 2021, Governor Hochul signed
3 legislation that included a requirement that all new
4 light-duty passenger car and light truck sales be a
5 hundred percent ZEV by 2035. New York's Climate
6 Leadership and Community Protection Act has established a
7 very ambitious and nation leading climate change
8 mitigation targets, including a 40 percent reduction in
9 greenhouse gas emissions by 2030 and an 85 percent
10 reduction by 2050.

11 New York needs to expedite vehicle
12 electrification to meet its Climate Act targets, which is
13 further supported by New York's goal to have 70 percent
14 renewable energy generation by 2030. As required by the
15 Climate Act, New York has developed a draft scoping plan
16 and supporting analysis that indicate New York needs at
17 least 90 percent ZEV sales by 2030 to achieve these
18 targets.

19 New York's adoption of ACC II, as provided under
20 Section 177, is an absolute need towards achieving New
21 York's EV and climate change legislative goals. A robust
22 national ZEV market will help to achieve the market
23 transformation contemplated by ACC II. Section 177 state
24 adoption of ACC II is the key to rapidly building that
25 market. Section 177 creates economies of scale that lead

1 to more affordable cars and a wider array of models to
2 serve consumer interests.

3 Section 177 states also provide the underpinning
4 of strong federal regulations needed to enhance market
5 certainty and foster additional investments in
6 zero-emission technologies. The combined market share of
7 California and the Section 177 ZEV states, more than 35
8 percent of new car sales in the U.S., will drive the
9 development of a robust national ZEV market and strong
10 national standards

11 To achieve our shared market transformation
12 goals, ACC II must be widely adopted by other states. The
13 proposed ACC II ZEV regulation includes the right mix of
14 ZEV compliance flexibilities to address varying market
15 conditions across the Section 177 states, and the
16 differing needs of automakers. At the same time, the
17 propose -- proposed flexibilities are appropriately
18 limited and phased out to ensure ZEV market growth over
19 time.

20 The current Section 177 states and other states
21 considering ACC adoption are in different places with
22 respect to ZEV sales, charging infrastructure development,
23 consumer demand, and other factors. Likewise,
24 automaker -- automakers are not all similarly situated and
25 may experience fluctuations from year to year. Offering a

1 variety of flexibilities provides numerous pathways for
2 complying with ACC II's increasingly stringent ZEV sales
3 requirements, and is essential to building support needed
4 for Section 177 state adoption of ACC II. In our opinion,
5 the proposed ACC II flexibilities strike the right
6 balance.

7 In closing, we want to reiterate our strong
8 support for ACC II. Thanks -- thank you again for your
9 leadership on this critically important motor vehicle
10 emission program. We look forward to our -- continuing
11 our partnership with California as the Section 177 states
12 work to adopt and implement ACC II.

13 CHAIR RANDOLPH: So is that it for the staff
14 presentation?

15 Okay. All right. Thank you.

16 CHRISTOPHER LALONE: Yes.

17 CHAIR RANDOLPH: All right. Thank you. I wanted
18 to give the Board a moment if you would like to ask
19 questions of any of our panelists before we go to public
20 comment.

21 Board Member Sperling.

22 BOARD MEMBER SPERLING: Yes. Thank you.

23 Great presentation, but we'll talk about that
24 later. There was a slide there that Anna Wong presented
25 about continuing to refine the proposal. And I thought

1 those refinements were more than just a few vague words.
2 Can you enlighten us whether that's true? What exactly
3 are these refinements that I thought were pretty advanced
4 proposal? So there -- in particular, one was on
5 durability and warranty another was on the historical ZEV
6 credits, and the other was on fuel cell vehicles.

7 STCD ZEV MARKET ADVANCEMENT SECTION MANAGER WONG:

8 So would it be helpful to bring up the slide or
9 would you like me to just speak to it?

10 BOARD MEMBER BALMES: It's 31.

11 STCD ZEV MARKET ADVANCEMENT SECTION MANAGER WONG:

12 Thirty-one. I'm bringing it on my computer, but
13 that's probably not helpful to you -- all of you.

14 Mike, do you want to go for explaining
15 durability.

16 BOARD MEMBER SPERLING: You know, and just -- the
17 reason I'm asking is because if we're going to have a
18 discussion about that and there are going to be
19 comments --

20 STCD ZEV MARKET ADVANCEMENT SECTION MANAGER WONG:

21 Um-hmm.

22 BOARD MEMBER SPERLING: -- it would be useful to
23 know the latest thinking.

24 ECCD VEHICLE PROGRAM SPECIALIST McCARTHY: Okay.

25 This is Mike McCarthy. So let me talk about durability.

1 In the -- in the draft language we've developed for a
2 15-day language change that we would put out, we've been
3 talking to industry a lot about durability. So as a
4 reminder, we proposed that vehicles be designed for the
5 typical customer to retain 80 percent of their original
6 range for 10 years. So that's sort of the bogey we've put
7 out there, that 80 percent.

8 Most of industry is on track to meet that for
9 their typical customer. They believe they'll be in that
10 ballpark. The leaders in the industry, I believe they'll
11 be better than that, some even publicly have marketed that
12 they'll be above 90 percent in 10 years, but it's still a
13 new requirement that they've never faced before and it's
14 still a requirement on a technology that is rapidly
15 evolving on cars that they don't actually have 10-year old
16 cars on the road yet for. Most of them do not have that.

17 So we do have to take into account that this is
18 new for them and they are gaining experience still. So
19 what we have proposed to do is to soften that requirement
20 in the early years. Specifically for the first five years
21 of the proposal, the new bogey would be 75 percent of
22 range. So the typical customer would -- would have to
23 be -- they would design the car to meet to retain 75
24 percent of its original range for those 10 years. That
25 gives everybody a little more breathing room in case there

1 is some unexpected degradation that their lack of
2 experience has kind could of put them on -- ill-placed to
3 predict.

4 The second part of that is that corresponding
5 change in enforcement. Obviously, if we lower the design
6 target, we have to lower the enforcement to match that.
7 And what we've done there, because of their lack of
8 experience of real-world cars, something unexpected that
9 they didn't plan for, they didn't project for, could
10 happen. And so we have -- we have proposed changes to the
11 enforcement that would set the enforcement trigger a
12 little bit lower than that actual design requirement. So
13 instead of holding them accountable right to that 75
14 percent for the first five years and 80 percent after
15 that, for the first seven years, we have softened the
16 enforcement a little bit, so that if they missed the mark,
17 they've got to miss it by more than just a trivial tiny
18 amount. They've got to miss it by a little bit more
19 before we start talking to them about enforcement and
20 what's going on.

21 This gives them again a little bit of breathing
22 room. They have to design up front to meet it. They have
23 to show at the time of certification they're going to meet
24 it. But if something unexpected happens, some amount of
25 vehicle to grid or home operation that is more than they

1 anticipated, some amount of other degradation that they
2 just didn't properly account for, this gives them a little
3 bit of breathing room. The typical owner would have to --
4 you know, again, we would tie stuff to the typical owner,
5 but it would just soften it a little bit in those early
6 years and give them experience. It's kind of still
7 holding them account, but at a slightly lower level. That
8 is the -- that combination of changes we've made to the
9 durability proposal.

10 STCD ZEV MARKET ADVANCEMENT SECTION MANAGER WONG:

11 Okay. And so now, let's go to the other
12 mechanisms that we're proposing to change. The first is
13 it's a misnomer. We shouldn't have called them historical
14 credits, because they're yet to be earned in many ways.
15 But they're Advanced Clean Cars I credits. So after the
16 close of the banks in 2025, we have ZEV credits, we have
17 plug-in hybrid credits. And the first action that we're
18 going to do is we're going to shrink those banks by
19 dividing them by a factor. And originally we were going
20 to divide the ZEV banks by a factor of four and the
21 plug-in hybrid banks by a factor of one.

22 Now, when you divide a groups of numbers by a
23 bigger number, you have less of them. That's just how
24 it -- how math works.

25 But plug-in hybrids --

1 CHAIR RANDOLPH: Sorry, Anna. Sorry, me. Can
2 you just explain a little more clearly what you mean by
3 divide, because I want to make sure everybody is
4 following.

5 STCD ZEV MARKET ADVANCEMENT SECTION MANAGER WONG:

6 Okay. You have a bank of credits. That's a
7 number of credits. And in California, there are a lot of
8 ACC I credits that will be amassed, a lot. And we bank
9 those in different buckets within our program, because
10 there's different rules on how you can spend those
11 credits. ZEV credits have the most power and regulation,
12 because they're our gold standard going back to, you know,
13 what ZEV 4.0, not, you know, 6.0 that we're on now.

14 So we're going to the gold standard and those can
15 be used. So those are banked differently. And then
16 there's plug-in hybrid credits, which have always been an
17 option. And so that's in a different bucket. You take
18 all those credits and what we first decided to do is to
19 make them usable within Advanced Clean Cars II. And the
20 first step we take is we divide that bank of credits by a
21 factor. Originally, we had proposed a factor of four ZEVs
22 and a factor of one for plug-in hybrids. And that would
23 disproportionately benefit plug-in hybrids over ZEVs. But
24 high plug-in hybrids have always been an option to ZEVs,
25 so we didn't really think that that treatment was fair, so

1 now we're going to a factor of two for both types of
2 credits. So those credits they come after 2025, whatever
3 is in that bank, we divide that -- each of those banks by
4 a factor of two. That makes them now into this new
5 historical ZEV credit category.

6 Now, we've always since -- you know, let's see.
7 When we first proposed this back in May of last year, you
8 could -- we proposed that you could use these credits in a
9 limited way. Manufacturers could meet up to 15 percent of
10 their requirement with these historical credits. We
11 aren't usually in the -- the business of just deleting
12 credit banks. So this is a way for manufacturers to still
13 benefit from that overcompliance, that very good action,
14 but in a limited way, so that they could just run over the
15 program with just credits and not make any more vehicles.

16 So 15 percent per year for the first five years.
17 What we have proposed in addition to that change in the
18 factor from four down to two, or one up to two, depending
19 on the credit category, we're also proposing to allow
20 manufacturers to use the cap cumulatively. And that means
21 over those five years, they calculate what they would have
22 spent each year, and they can spend those all within the
23 first year or within the last year, but it gives them a
24 little bit more flexibility on when to spend those
25 credits.

1 It still is equivalent to the same number of
2 vehicles in terms of the trade-offs. There's no
3 disbenefit to the overall number of vehicles, but it
4 allows some manufacturers flexibility where it is needed.

5 And overall, we don't expect this to have an
6 effect in a strong market like California. Where this
7 will benefit most is in a market that is being more
8 developed, such as those in the Section 177 states, where
9 manufacturers need more options in their compliance path
10 to get to that hundred percent. So this is one of those
11 that is on there.

12 Is there any other questions about historical
13 credits?

14 Okay.

15 BOARD MEMBER SPERLING: And fuel cells.

16 STCD ZEV MARKET ADVANCEMENT SECTION MANAGER WONG:

17 Okay. So fuel cells are dependent on hydrogen
18 infrastructure. And California has a growing number of
19 hydrogen infrastructure stations all throughout
20 California. And most fuel cell deployment in the United
21 States is centered round California's infrastructure.

22 Manufacturers, when they think about their
23 compliance plan, they are trying to develop it, not just
24 for one market, they're trying to look across a broader
25 swath of places. And again, like we said, 15 states now

1 have adopted the ZEV regulation and we expect the majority
2 of those to continue on with ACC II.

3 So we are proposing, after working with the
4 states and with hydrogen manufacturers -- or fuel cell
5 manufacturers, a bit of proportional credit for every fuel
6 cell vehicle that is placed. And what that does, it
7 doesn't really affect where it's placed. So like in
8 California, we expect most of these vehicles to be -- to
9 be placed here. But what this does is it provides for
10 manufacturers to not have to provide that type of vehicle
11 in the other states, so they can have kind of a compliance
12 plan that does not depend on hydrogen infrastructure
13 that's not being built in those states.

14 Traditionally, for those of us who have been on
15 this Board for a long time that I've worked with you, it's
16 been called the travel provision, but this is a more
17 limited travel provision, in that it really only takes
18 care of compliance for that segment that you've built to
19 meet with fuel cell vehicles. So it's very limited and
20 there's -- in no way we've placed a cap on this, so it's
21 only 10 percent of your overall compliance that would be
22 coming from these proportional values. And it's limited
23 through 2030.

24 So that's how we've -- we've limited more than
25 fuel cells, the original travel provision, which would

1 have just given extra credits for every single fuel cell
2 placed and with no cap. So this is a more limited
3 approach and has been worked out with the Section 177
4 states that would be most affected by this proposal.

5 BOARD MEMBER SPERLING: So just to be clear on
6 that, that's 10 percent cap per state or per automaker --
7 or per automaker per state I guess, right?

8 STCD ZEV MARKET ADVANCEMENT SECTION MANAGER WONG:
9 That's right. It's both, yeah.

10 BOARD MEMBER SPERLING: Okay. Yeah.

11 STCD ZEV MARKET ADVANCEMENT SECTION MANAGER WONG:
12 And it's actually just up to a 10 percent cap.
13 It's -- overall, the cap is actually based on the state
14 where you have the highest number of fuel cells placed.
15 So, for example, if in California, you only made six
16 percent of your requirement fuel cells, here in
17 California, the cap would then become six percent, not 10
18 percent. It's not an automatic 10 percent. It's actually
19 based on actual fuel cell vehicle placement in a place.

20 CHAIR RANDOLPH: So it would be six percent in
21 every state?

22 STCD ZEV MARKET ADVANCEMENT SECTION MANAGER WONG:
23 Yeah, that's right.

24 BOARD MEMBER SPERLING: Okay. Well, thank you
25 very much. That -- so just to be clear also, so this is

1 part -- these are the 15-day changes?

2 STCD ZEV MARKET ADVANCEMENT SECTION MANAGER WONG:

3 That's right.

4 BOARD MEMBER SPERLING: So when we have a
5 discussion, you know, and comment, and here, these are
6 what we should be referring to?

7 STCD ZEV MARKET ADVANCEMENT SECTION MANAGER WONG:

8 That's right. And they're available in a paper
9 copy in the back of the room. And we put up a QR code to
10 go to our website, and you can look at the -- each of the
11 regulations. They're posted up on our website right now.

12 BOARD MEMBER SPERLING: Thank you. Very
13 beautifully explained.

14 (Laughter.)

15 CHAIR RANDOLPH: Okay. Anymore clarifying
16 questions?

17 Oh, Mr. Florez.

18 BOARD MEMBER FLOREZ: Thank you. And just to
19 follow up to this slide and the process that was just
20 mentioned, so I can understand the -- from the Chair's
21 perspective, the process is we have these 15-day comments.
22 We have a resolution in front of us. We're going to have
23 public comment. And is it the expectation that public
24 comment will then inform additional changes as we move
25 forward and that will be incorporated or is it that the

1 15-day changes are done, and we're going to hear comments
2 for not, I guess, is my --

3 CHAIR RANDOLPH: As we typically do with our
4 regulatory proposals, we will -- you know, staff has given
5 us their proposal. They have given us the proposed 15-day
6 changes that they recommend.

7 BOARD MEMBER FLOREZ: Okay.

8 CHAIR RANDOLPH: We will hear from -- hear public
9 comment. We will have a Board discussion. If we want to
10 discuss the -- either the original regulatory language,
11 suggest additional 15-day changes, tweak the 15-day
12 changes that have been suggested, add policy direction in
13 the resolution, we can do all of those things as we
14 typically do when we do regulations.

15 BOARD MEMBER FLOREZ: Okay. And I know we
16 typically do that. But then if that comes to fruition and
17 we have a rigorous conversation from the Board with some
18 additional changes, does that then come back to the Board
19 or is it just kind of -- how do -- how do we get another
20 look at it, I guess, is my -- my question?

21 CHAIR RANDOLPH: Well, we will have another Board
22 hearing in August --

23 BOARD MEMBER FLOREZ: Okay.

24 CHAIR RANDOLPH: -- so there will be an
25 opportunity to circle back again in August and have more

1 discussions. I will say, as our discussion with the 177
2 states indicates, you know, this is a very critical
3 regulation for their air quality and greenhouse gas
4 strategy. They want to capture model year 2026 and going
5 forward, just like we do, so we need to give them a
6 completed regulatory process, so that they can then take
7 action before the end of the year. So it's going to be
8 really important to have a robust discussion today and be
9 ready in August to -- to take action and get a proposal
10 going, so --

11 BOARD MEMBER FLOREZ: And maybe just to follow
12 that up, I guess this is -- I'll mention this today and I
13 definitely will mention it during our Scoping Plan
14 discussion, and that is when we have these, in some sense,
15 deadlines - you were just mentioning we have to get this
16 done before the end of the year - is that like our staff's
17 recommendation that it has to get done or is it -- there's
18 some federal regulation that says we -- it has to get
19 done? Is it just our schedule that says it has to get
20 done? What's driving it has to be done by August or
21 September? It's probably the same question I'm going to
22 have with the Scoping Plan, but today we're talking about
23 this. So I just want to know how will --

24 CHAIR RANDOLPH: Right. Well, those are kind of
25 two different things, right, because the Scoping Plan has

1 a --

2 BOARD MEMBER FLOREZ: Yeah. Yeah.

3 CHAIR RANDOLPH: -- has a statutory time frame.

4 BOARD MEMBER FLOREZ: Sure.

5 CHAIR RANDOLPH: But Craig could probably provide
6 a good explanation.

7 DEPUTY EXECUTIVE OFFICER SEGALL: Senator Florez,
8 it's federal law. There's a particular federal waiting
9 period for model years for the 177 states. So they need
10 to adopt before the end of this year to be able to adopt
11 the first year, the model year '26 of the proposal.

12 BOARD MEMBER FLOREZ: Um-hmm. This piece.

13 DEPUTY EXECUTIVE OFFICER SEGALL: Right.

14 BOARD MEMBER FLOREZ: And what's the deadline?

15 DEPUTY EXECUTIVE OFFICER SEGALL: The end of this
16 calendar year, so basically, they would have to, if they
17 choose to, adopt identically our regulation.

18 BOARD MEMBER FLOREZ: Um-hmm.

19 DEPUTY EXECUTIVE OFFICER SEGALL: And the way
20 federal law works is that there's a particular time
21 between the time they -- we adopt and the time they can
22 start enforcing.

23 BOARD MEMBER FLOREZ: Sure. Okay. No, I just
24 wondered. It seem like we have some very big pieces to
25 accomplish before the end of the year, this and the

1 Scoping Plan. So I was just trying to get an
2 understanding of what, in some sense, drives these
3 decisions, and how much time truly do we have to put our
4 imprint, as Board members, as the public, et cetera. And
5 so I'm not going to try to delay or -- I'm just trying to
6 figure out how much work we can do and what time periods.
7 So I appreciate that.

8 DEPUTY EXECUTIVE OFFICER SEGALL: No, we
9 appreciate that. Thank you

10 BOARD MEMBER KRACOV: Chair.

11 CHAIR RANDOLPH: And Board Member Hurt had a
12 question.

13 BOARD MEMBER HURT: Thank you.

14 You know, we've repeatedly heard that ACC II does
15 not align with the Mobile Source Strategy. And I was
16 curious if you could speak to this interpretation and what
17 may be confusing the public around that space. I know
18 we've talked in staff briefings. But I think for the
19 public a conversation around the Mobile Source Strategy
20 and how they integrate with what we're doing today is
21 important.

22 DEPUTY EXECUTIVE OFFICER SEGALL: Sure. I can
23 take that. So the Mobile Source Strategy is one high
24 level top-down look. In other words, it asks, you know,
25 what would be the ideal circumstance to get to. It's not

1 intended to guide -- you know, just one regulation isn't
2 the way we implement that. That's the whole portfolio, so
3 that's the incentive program, that's all the other things
4 we're doing. So this is one piece to help realize our
5 overall goals. It's a really important piece, though.

6 CHAIR RANDOLPH: Okay. Any other clarifying
7 questions before we hear public comment?

8 Board Member Kracov.

9 BOARD MEMBER KRACOV: Yeah. Just for the Chair,
10 and Board Member Sperling, and Anna Wong, there was that
11 fourth bullet point on the medium-duties, what's that --
12 that proposal?

13 STCD ZEV MARKET ADVANCEMENT SECTION MANAGER WONG:

14 Okay. So we expect for some manufacturers to --
15 in order to transition like a -- like a big pickup truck,
16 when you take out all of the engine, and transmission, and
17 emission control systems, all of that out and you replace
18 it with a battery, it might not -- it might cease to be a
19 light-duty truck and become -- a medium-duty vehicle might
20 fall above 8,500 pounds. And so manufacturers have asked
21 to retain a flexibility that is already available today,
22 which is this option to choose where to count those
23 credits towards Advanced Clean Cars or another regulation
24 that this Board has adopted Advanced Clean Trucks?

25 And so we have worked with those manufacturers to

1 find a path, so that we can retain that flexibility. And
2 on top of that, we have created some certification paths
3 for compliance for medium-duty ZEVs. So those two things
4 have happened and -- and we're -- what we're doing is
5 retaining -- retaining the flexibility to count those
6 credits, where the manufacturer choose -- chooses to count
7 them, Advanced Clean Trucks or Advanced Clean Cars?

8 CHAIR RANDOLPH: And to be clear, they can't
9 count them in both.

10 STCD ZEV MARKET ADVANCEMENT SECTION MANAGER WONG:
11 That's right. That's right.

12 CHAIR RANDOLPH: Okay. Sorry. Board Member
13 Takvorian and then Vice Chair Berg.

14 BOARD MEMBER TAKVORIAN: Thank you.

15 I know we're going to hear -- I have a lot of
16 questions, but just the one that I thought you might want
17 to expand on your discussion of the equity provisions and
18 your choice to make them all voluntary rather than
19 mandatory. And I know that you -- we talked about it in
20 my briefing, but I think that there is a strong argument
21 for why they need to be required or something needs to be
22 required that allows us to actually have metrics and
23 expectations about how -- how we can proceed with that and
24 have some guarantee of relief. So I just wanted to give
25 you an opportunity to maybe talk about that a little bit

1 more now. And I know we'll be hearing about it in public
2 comment.

3 Thank you.

4 STCD ZEV MARKET ADVANCEMENT SECTION MANAGER WONG:

5 So when we developed these as I -- as a set of
6 values, we -- we did have this concept that they would be
7 an option for manufacturers to comply. And they were
8 developed actually when the stringency was low -- lower.
9 And so as we increased the stringency and then we
10 broadened the options, we had more assurance that maybe
11 there's not a path for every single manufacturer to
12 comply, but that the volume of vehicles that would be
13 headed in through these values would likely be more
14 guaranteed, that that flexibility would be used in some
15 way.

16 So what we've tried to do is, you know, come up
17 with this option as more of a way to increase volume of
18 vehicles and to certain applications, rather than think
19 about a mandatory provision. And when we think about
20 mandatory, that's a different set of hurdles than maybe a
21 flexibility. And so mandatory means that manufacturers
22 need to have a compliance path, in some way. But right
23 now as they're set up, this is not necessarily appropriate
24 for every single manufacturer that produces new cars in
25 California.

1 And so that -- I would -- I would say that they
2 were set up as a way to maximize volume within the
3 category. There's -- we definitely expect vehicles to be,
4 you know, equivalent to that -- to that cap that's
5 allowed, but it might not be from every manufacturer. And
6 that continues along an approach that we have within the
7 regulations. Plug-in hybrids are also an option. We
8 don't expect every manufacturer to make plug-in hybrids,
9 but that those manufacturers have an option for a
10 compliance path.

11 So that's the way that they were -- they were
12 built and that's the way that they were expanded to ensure
13 that there were the maximized usage, but maybe not across
14 every manufacturer. If they were to be mandatory, we'd
15 have to think about additional paths that would be
16 appropriate for all manufacturers. And right now, that's
17 not the way that those are -- those values have been --
18 have been set up.

19 DEPUTY EXECUTIVE OFFICER SEGALL: And just to
20 chime in slightly more on that, Board Member Takvorian.
21 In addition to the considerations Anna has mentioned, a
22 few things sort of motivated our thinking in the equity
23 space here. And I think it might just be useful to
24 outline them.

25 And the first obviously - and this will come to

1 the point. I promise - is just thinking about overall
2 volumes and stringency. The second was making sure that
3 these vehicles were durable and would last, especially in
4 this vehicle market where most people buy cars.

5 And then there was the question, and this is
6 novel. This is the first time we've tried crediting
7 provisions like this of having particular incentives to
8 drive vehicles that either are lower price or in
9 particular neighborhoods. I will say that this is the
10 first time we have asserted such authority and such an
11 approach. There's some reasons to be gentle there
12 considering our traditional legal and policy structures.

13 It's also relevant thinking about how this works
14 across manufacturers as Anna has noted. Mercedes, for
15 instance, is unlikely to have a sub-20K car, just as one
16 example.

17 It also has been relevant thinking about how this
18 works in other states. So not every state has our
19 programs. Not every manufacturer can comply necessarily
20 in every state. So when I think about this, we really are
21 quite confident that many manufacturers, given how hard
22 we're pushing on stringency, will use these provisions.
23 They'll certainly use them in California with I think
24 quite a large volume of vehicles.

25 There are significant, I will say, process and

1 design challenges with requiring such use in every state
2 by every manufacturer in every place. And part of that is
3 we thought about that -- situating that within the larger
4 portfolio of what we're doing on equity, including both in
5 this rule and with other tools. So think, for instance,
6 about what we're doing on the incentive side, where every
7 year, in part, guided by guidance from you and other Board
8 members to increase our focus on -- those deployments as
9 well.

10 So it's a whole picture here. And part of it is
11 figuring out what tool we have in our hands at any given
12 moment. And our judgment on this one is that we'll see
13 good use of these provisions, quite good use, in ways that
14 don't lead us into, I'll say, non-trivial implementation
15 complexities, were we to require them.

16 BOARD MEMBER TAKVORIAN: So thank you both for
17 your responses. I -- I guess I just -- I don't feel like
18 we're trying hard enough honestly. And I know we're going
19 to talk about more, but it -- I understand that mandatory
20 in one definition means across the board. It doesn't have
21 to mean across the board. We can be creative about how we
22 utilize equity requirements as a stronger incentive. And
23 I guess maybe -- maybe that's the question as to how
24 you -- you can do that within the program, because there's
25 no guarantee of any use of these credits at all, which is

1 I know not the goal. I know that's not your goal. I know
2 that's not the Board's goal. I know that's not what the
3 public is seeking, but we have no assurances that there --
4 they will be utilized.

5 And frankly, there's affordable ZEVs in other
6 places and other countries that are far exceeding
7 California at this point. I know there's a lot of reasons
8 for that as well, but I don't feel like this is -- this is
9 really equity. You know, this is a nod towards equity,
10 but it doesn't guarantee that we can get those cars into
11 the hands of the consumers that need them the most, and to
12 build the population of those cars in the communities that
13 are impacted the most.

14 So I'm looking for that. I'm looking forward to
15 that discussion and hope that perhaps as this evolves into
16 what I know will be a long discussion, we can -- we can
17 talk more about that. So thank you.

18 CHAIR RANDOLPH: Dr. Pacheco-Werner.

19 BOARD MEMBER PACHECO-WERNER: Yes. This is a
20 question for Tyson. Thank you so much for your
21 presentation. As you talked about, you know, in terms of
22 like the report highlights for the infrastructure, and the
23 workforce, and sort of the plans for that, what are some
24 of the timelines that folks are thinking in terms of some
25 of this being fully implemented, like if you have a -- a

1 goal in terms of, you know, when you'd like to see all of
2 the cities and municipalities in the streamlined
3 permitting or in the -- or, you know, where you'd be able
4 to say, okay, we now have a robust, you know, training
5 program. And I think this will be helpful, especially as
6 we hear comments about, you know, some of the deadlines.

7 Thank you.

8 TYSON ECKERLE: Yeah. No, it's a great question.
9 I think we're going about it like our pants are on fire.
10 I mean, our goal for the streamlined permitting is March
11 2021. So like, we missed it. You know, it's Earth Day --
12 or April 2021. You know, and so we've been pushing, you
13 know, and trying, you know, a bunch of different hours.
14 There's not really -- in that particular one, there's not
15 a stick at the end. It's also enticement, right? And
16 it's also limited staff and all that type of stuff. So
17 we're going to -- you know, it's as soon as possible.

18 And really on the infrastructure piece, I mean, a
19 lot of it is implementation of budget. So the California
20 Comeback Plan, you're seeing a lot of that starting to
21 come to fruition now, so that the EnergIIZE program, as an
22 example, on heavy-duty is just getting off the ground.
23 You know, the first funding lanes were just opened this --
24 these last couple of months. And then there will be a lot
25 more funding coming in once you get it -- this takes time

1 to get the projects going.

2 I think, you know, on the infrastructure, we
3 have, you know, a pretty good glide path to getting to our
4 2025 enabling targets for charging and fueling, but that
5 has continue to ramp up. And so it's hard to put target
6 dates. I mean, it's -- I mean, it's as soon as possible,
7 as unsatisfying as that is within, you know, the realities
8 of implementing this system. Does that help?

9 BOARD MEMBER PACHECO-WERNER: Yeah. So maybe for
10 me, if you're thinking through like, you know, a rural
11 community would -- you know, where is a realistic sort
12 of -- if you had a crystal ball, knowing that it's -- you
13 have nothing on paper, but just as, you know, as we're
14 thinking about, you know, these deadlines.

15 Thank you.

16 TYSON ECKERLE: Well, from a rural community
17 perspective, I mean, it really depends -- so we're getting
18 a lot of interest from rural communities, which is great.
19 And one of the things that is happening in that GO-Biz, is
20 we have a lot more boots on the ground from federal
21 funding to reach out to renewable communities from a kind
22 of business development perspective. And a lot of --
23 especially some of the -- you know, like in the Lake
24 Almanor area, as an example, they're seeing it as a way to
25 attract tourism, if we build out charging infrastructure

1 and fueling infrastructure. And so we're working with
2 them, and the Energy Commission has grant solicitations
3 for renewal -- for rural communities underway now.

4 And so -- and then the other part too is -- you
5 know, is implementation like on the permit streamlining as
6 an example. So AB 970 kicked into effect for larger
7 cities this year. And then they -- it comes into effect
8 next year for the rural communities in terms of the
9 timelines.

10 And so those timelines are already baked in. So
11 in -- in a sense, we are streamlined as a state. But to
12 really make it happen in practice, you have to get
13 those -- the processes in place. And so we're working
14 with -- we're putting a lot of focus on rural communities
15 right now to bring them up to speed.

16 CHAIR RANDOLPH: I accidentally skipped Vice
17 Chair Berg, so I'm going to go to her and then Board
18 Member Hurt.

19 VICE CHAIR BERG: Well, thank you very much.
20 It's no problem. Tyson, I want to continue with you and
21 it's always great to have you here. As we look at these
22 various State agency action plans and that we do have
23 things that we have identified and moving forward to. As
24 you mentioned and I think Anna also mentioned in our last
25 meeting, we talked between six agencies that absolutely

1 are committed. My questions is we have a very steep
2 stringency plan, which we need, and we need to meet this
3 plan. So how are we going to distill down the key
4 metrics, so we as regulators can respond quickly?

5 Because this isn't about did we develop the
6 perfect plan. No such thing. It isn't happening. There
7 will be some bumps in the road. There will be some
8 barriers. And if we can't respond quickly, like an
9 entrepreneur does, if we have to go through a lot of red
10 tape to address things, then we aren't going to make the
11 plan. Okay. Time is not on our side.

12 So help me understand from GO-Biz perspective how
13 are we going to identify key red flags, trends that are
14 going not in the direction that we need to meet these
15 plans, so we can get it back to the decision-makers, and
16 keep them abreast, not surprise us, in all the agencies,
17 not just ARB, but CEC, the PUC. How are we going to --
18 what are your thoughts -- not how. What are your thoughts
19 in looking at that? Because it's going to be a key
20 component, right?

21 BOARD MEMBER KRACOV: You have to watch the
22 permitting Olympics, isn't that what you call it?

23 TYSON ECKERLE: Yeah, that's true. Yeah.

24 (Laughter.)

25 TYSON ECKERLE: We're trying to maybe launch the

1 ZEV Readiness Olympics as another one too to help make it
2 a little bit more fun. But I think that's -- so Vice
3 Chair Berg, thank you for your question. I think that one
4 of the things we're -- we just launched and talked about
5 it at the infrastructure Board meeting that we did, is the
6 ZEV markets kind of snapshot, you know, on a quarterly
7 basis. And so the idea there, at least at the highest
8 level, we can look at the dials. Like, you know, you look
9 at the slide that Anna showed earlier with the ZEV
10 adoption. That makes me feel pretty good, the 16.3
11 percent in Q1. So that's, you know, there.

12 But then you can also click into that and start
13 to figure out, okay, well, what are those cars? You go to
14 the CEC's dashboard, you can see that Tesla Model 3 and
15 Model Y are dominating, at the -- you know, just kind of
16 where they are. You can go county by county and start to
17 pick apart from there. We're working a lot also on
18 workforce, which turns out to be a pretty hard thing to
19 measure, but to make sure that we are developing those
20 pipelines going forward and so -- and iterating. Also,
21 the end user experience is hard. I mean, it's easy to
22 count vehicles and infrastructure, relatively speaking.
23 So at least that's the thing.

24 And then we're looking at those outcomes we're
25 driving towards. So like, you know, the greenhouse gases

1 we're familiar with and the air quality, but also the
2 access to the market. And I think that's where the -- you
3 know, the EV provisions -- the ZEV provisions for used
4 vehicles and all that type of stuff is really important,
5 right, to -- to buy down that cost there and create
6 access. And so we're -- it's kind of -- it's -- we're
7 trying to figure out a way to measure a feeling. So at
8 least people in your seat can go, okay, this looks like
9 it's on the right path or we need to make some
10 adjustments. So there's -- that's kind of the top down.

11 And then bottom-up, I mean the whole theory
12 behind the ZEV market development strategy is to put all
13 the staff who are working on this stuff day to day in the
14 driver's seat for decision-making, because they see things
15 we don't see. As an example, there's -- I keep using
16 medium-duty and heavy-duty examples, just because I was
17 thinking about it, right, but the metrology for charging
18 stations. The Division of Measurement and Standards has
19 already put out a letter that will help keep the programs
20 going. Otherwise, it didn't line up with the NIST, the
21 National Institute of Standards, handbook. And so, you
22 know, we're -- so like these little things where you go
23 like oh, my goodness, here goes the warning bell, that
24 staff can go ahead and do.

25 And so the thinking behind the agency action

1 plans is to put the staff who are the most close to the
2 problem in that decision-making thing and we run it up
3 through the agencies and bring transparency into it. So I
4 think it's -- it's top-down and then bottom-up. Is
5 that --

6 VICE CHAIR BERG: That does help and I really
7 would do the sideways one, which truly is consumer
8 acceptance. If we start hitting a plateau, we just can't
9 keep beating up the OEMs. We have to be partners here.
10 And so if we can also figure out a way to measure how is
11 the acceptance from the consumer going, I think that also
12 would be extremely helpful.

13 Thank you so much.

14 TYSON ECKERLE: Thank you.

15 CHAIR RANDOLPH: Board Member Hurt.

16 BOARD MEMBER HURT: Thank you, Chair. I really
17 appreciated Takvorian's -- Board Member Takvorian's
18 comments. And I wanted to take a question out of this
19 area of equity. We talk a lot about access, and
20 affordability, and using credits to spur the market for
21 more and more ZEVs to be built. And I'm curious whether
22 we've considered, you know, using credits to encourage
23 smaller vehicle types? And are there any thoughts around
24 trying to get a greater supply by smaller vehicles? I
25 know, in the U.S., we like our big cars, our big trucks,

1 but thoughts around that space.

2 And I bring it up, too, because we talk a lot
3 about the EU and how there are a lot of cars there, but I
4 want to remind folks that there are a lot of subsidies as
5 well as smaller cars.

6 STCD ZEV MARKET ADVANCEMENT SECTION MANAGER WONG:

7 Okay. So what -- I just want to make sure I
8 understand the question. You're asking about crediting
9 provisions that would give higher value to smaller cars?

10 BOARD MEMBER HURT: (Nods head.)

11 STCD ZEV MARKET ADVANCEMENT SECTION MANAGER WONG:

12 You know, I think that that -- the ZEV regulation
13 over 30 years has tried so many things, and especially
14 with credits. We've tried to spur different action or
15 different vehicle attributes. And when it comes to the
16 size of vehicles, you know, we have overall let the market
17 decide what the market wants and gone more with
18 range-based attribution, because that, you know, is the
19 clearest connection back to environmental benefit.

20 But really one problem when you start giving
21 extra credits to certain vehicle types, it starts
22 ballooning the credit banks in ways that are -- don't
23 result in real vehicles. And so back to kind of the
24 structure of the -- of the program, we really this time
25 thought about what structure gets us to vehicles and away

1 from this conversation about credits, credit banks,
2 ballooning credit banks that stave off future
3 requirements, because that's where we find ourselves
4 today, and that's never where we should find ourselves
5 again in order to make to a hundred percent goal.

6 So overall, the -- the program has been
7 structured in a different way by using minimum technical
8 requirements, partnered with a way of counting vehicles --
9 new vehicles first, and giving all vehicle technologies,
10 regardless of size, regardless of weight, you know, all
11 sorts of different things, one value.

12 And it's a little bit innovative for the ZEV
13 regulation, considering where we have been and considering
14 all the different ways that we've tried to credit vehicles
15 to move the market in different ways. And what we've
16 really found, and back to Vice Chair Berg's point, is that
17 the market needs to speak in the space and the
18 manufacturers need to develop segments -- or vehicles in
19 every segment or we're never going to make it to 100
20 percent.

21 So the volume in itself, just the high volume
22 that we are driving, that will solve a lot of the issues
23 in that space, without having to actually give up more of
24 our programs by extra crediting provisions. So it's not
25 to say it's not a good idea, but we've been at this game

1 for such a long time, that I think now we're recommending
2 an approach that is simple, and direct, and results in
3 real vehicles, and goes away from big credit banks.

4 BOARD MEMBER SPERLING: Chair Randolph, could I
5 help out Anna a little bit here?

6 Well -- oh, you're going to follow up.

7 BOARD MEMBER HURT: That's okay. I would
8 actually like to help out. So let's hear what you have to
9 say and then I'll follow up with another question.

10 BOARD MEMBER SPERLING: Okay. Yeah, so it was to
11 your point. So the -- I mean, as Anna said, we've -- you
12 know, those of us that have been around a while, we've
13 seen -- it's been painfully complicated in the past, but
14 the -- to support what you're going at is there's two
15 important things here that will contribute to what you're
16 asking about.

17 One is that with electric vehicles the batteries
18 are so heavy and so expensive, that it creates a strong
19 motivation to downsize the vehicles a little bit just to
20 save money. So that's one of the good things that we're
21 doing.

22 The other thing is we're getting rid of what I
23 considered very flawed greenhouse gas standards, which
24 had less stringent requirements for trucks and SUVs, and
25 also had a footprint-based approach, which gave an --

1 maybe not incentive, but facilitated large vehicles. So
2 by getting rid of all that stuff and just moving to
3 this -- you know, to moving to electric vehicles,
4 dispensing with all that, we're making good -- some good
5 progress.

6 And I would suggest some time in the future, we
7 might follow up on what Davina is suggesting, but I think
8 there's some good news here.

9 BOARD MEMBER HURT: Thanks for that help out.

10 I'm just trying to think about how we can make
11 the EJ component of this stronger. And it just seems to
12 me that smaller cars, and everything that we've all said
13 here today, is one way of doing it. And maybe it is
14 something we need to look back to in the future.

15 My other thought or idea, and I'd like to learn
16 and see what you all think, is when we talk a lot about
17 the stringency -- and a lot of folks have said, more,
18 more, more. And, of course, we have to be careful not to
19 break the market and the system, but at the same time,
20 really push the market in a direction.

21 And I'm wondering if you all have every thought
22 about say we keep the stringency numbers where they are in
23 2026 and 2030, but then we look at the metrics that the
24 Vice Chair talked about, and is there a way to put more
25 credits and urge more sales, a higher mandate of ZEVs

1 later years? I know people have to plan manufacturing
2 lines. So we don't want to say, okay, well, we've learned
3 what we've learned, and now we want to jump it up 30
4 percent. But is there a credit component that we can use
5 to urge more manufacturers to build more cars? That was a
6 mouthful.

7 (Laughter.)

8 STCD ZEV MARKET ADVANCEMENT SECTION MANAGER WONG:

9 You know, I think that it's a really interesting
10 idea. And it reminds me of an EPA regulation --
11 incentive, in that if manufacturers met certain caps --
12 not caps. It's not a cap, because it's like a threshold.
13 Certain thresholds within certain time frames, and they
14 would unlock more thresholds. And it's -- it's -- I think
15 it's really interesting and we had not specifically looked
16 at that for this regulation. That was in a greenhouse gas
17 context in that EPA example. But it -- you know, it would
18 be something that we could include in -- in our always
19 ongoing review of what we adopt. You know, we're not --
20 we're -- this -- we're not a staff that just, you know,
21 adopts and walks away. It's kind of an ongoing lifelong
22 process of reviewing this regulation, but I -- I'd have to
23 think about it more, but I -- I think it's really -- it's
24 interesting and just reminds me of other -- other programs
25 that have been adopted.

1 BOARD MEMBER HURT: Thank you.

2 CHAIR RANDOLPH: Okay. Any other clarifying
3 questions?

4 Okay. So we will now be going to -- hold on. I
5 have to get my public comment notes. Okay. We will now
6 hear from the public who signed up to speak on this item
7 by completing a request to speak card or raising their
8 hand in Zoom. We have well over 100 commenters, so our
9 commenting time will be two minutes. And I will also note
10 after about 30 minutes, I will close the queue and -- for
11 getting in line to comment. And we will also, at some
12 point, be taking a 45-minute lunch break. So just so
13 folks are aware that that will happen.

14 Okay. Clerk, would you please begin calling the
15 commenters?

16 BOARD CLERK GARCIA: Thank you, Madam Chair.

17 I will start with remote commenters and then pass
18 it over to Katie for in-person commenters.

19 So we currently have 37 remote commenters who
20 wish to speak at this time. If you wish to verbally
21 comment on this Board item, please raise your hand or dial
22 star nine now. And I apologize in advance if I
23 mispronounce your name.

24 The first five speakers are Vicente
25 Perez-Martinez, Andrea Isood, Kim Floyd, Robert Graham,

1 and Allis Druffel.

2 So Vicente, I have activated your microphone.
3 Please unmute yourself and you can begin.

4 VICENTE PEREZ-MARTINEZ: Good morning. My name
5 is Vicente Perez-Martinez. And I'm speaking in support of
6 a stronger Advanced Clean Cars Program. I live in LA with
7 my wife and my seven year old daughter. Our house is very
8 close to two major traffic arteries.

9 As you know, LA has been in non-attainment with
10 health-based air quality standards for many years. This
11 is affecting us in a very direct and personal way. Our
12 backyard is so close to La Brea Avenue that the soot and
13 grime from vehicle traffic gets all over the yard, and
14 nasty gray dust lies on top of everything no matter how
15 often we try to clean. We worry about the effects of the
16 vehicle air pollution on our health. And we had to limit
17 how much time our daughter spends outside during bad air
18 quality days.

19 I'm here to urge the agency to strengthen the
20 sales requirements and to not weaken the requirements
21 through flexibilities, because our community desperately
22 needs cleaner air. I also urge the agency to strengthen
23 the rule, because a strong rule will make more EV choices
24 available for purchase.

25 Because of our desire to breath cleaner air, we

1 replaced our two family cars with EVs as soon as they
2 became a viable option. Most importantly, we did it for
3 our daughter to protect her future and to give her
4 generation a fighting chance against climate change.

5 Finding cars that we could afford, even used, was
6 not easy. It was made -- it was made even more difficult
7 by the cost of setting up our home for those electric
8 vehicles. The stronger more equitable sales standards
9 that helped create market certainty for these technologies
10 will help address in the state's biggest barrier to EV
11 adoption.

12 I'm calling you, Air Resources Board, to protect
13 our health and our children's future by setting strong air
14 pollution standards.

15 Thank you for your time.

16 BOARD CLERK GARCIA: Thank you.

17 Andrea, I have activated your microphone. Please
18 unmute and you can begin.

19 ANDREA ISOOD: Thank you. Andrea Isood, speaking
20 on behalf the national Sierra Club and also as a mother
21 living in Oakland close to Highways 580, 80, and 24.

22 Sierra Club's three million members and
23 supporters across the country urge CARB to strengthen the
24 proposed ZEV requirements in the early model years and to
25 not dilute those requirements by allowing automakers to

1 use a glut of ACC I credits and other flexibilities.

2 When all those flexibilities are taken into
3 account, ACC II model year 2026 requirements are not much
4 more stringent than the 17 percent ZEVs that will result
5 from the federal standards in that year, and California
6 can do so much more. Encouraging the ZEV market in the
7 early years is critical to reduce costs and increase
8 customer acceptance.

9 Sierra Club chapters in New England, Oregon, New
10 Jersey, New Mexico, Nevada, Maryland, and Washington have
11 joined letters urging CARB's strong leadership, so that
12 their states can follow suit and so that their states can
13 meet their climate and air quality goals.

14 On a personal note, I'm a mother of a four year
15 old living close to several major freeways in an area with
16 unhealthy and sometimes dangerous air quality, and it's
17 terrifying to know my son's lungs are being damaged by
18 simply playing outside and breathing the air.

19 And it's terrifying to imagine the climate
20 disasters that will shape his life. The freeway soot
21 finds its way inside the leaky windows in our house and as
22 does the smoke from the climate-fueled wilde -- wildfires.

23 As you establish this critical policy, please
24 keep today's children, future generations, and the
25 vulnerable communities most impacted by pollution and

1 climate change disasters at the forefront.

2 Thank you.

3 BOARD CLERK GARCIA: Thank you.

4 Kim, I have activated your microphone. Please
5 unmute and begin.

6 KIM FLOYD: Good morning. Can you hear me? My
7 name is Kim Floyd. I live in Palm Desert in Riverside
8 County, where ozone and particulate matter levels are
9 dangerous for all of us living here. As a matter of fact,
10 right now, our area is under a smog alert for today and
11 the next several days.

12 I am 79 years old and will need to stay inside
13 for the next several days or wear a protective mask to go
14 out to groce -- for groceries or other necessities. This
15 smog alert is, in large part, the result of heavy traffic
16 on our roads locally and emissions blowing in from the Los
17 Angeles Basin just to our west.

18 I am here to ask the agency to recognize that
19 climate change is making our air quality worse by the day
20 and we need to strengthen, not weaken, zero emission
21 vehicle sales requirements. Also communities of low,
22 moderate income are already overburdened with very poor
23 air quality. It is important that the final rules include
24 strong equity provisions.

25 Thank you.

1 BOARD CLERK GARCIA: Thank you.

2 Robert, I have activated your microphone. Please
3 unmute and begin.

4 ROBERT GRAHAM: Thank you, Chair Randolph and
5 Board members for this opportunity to speak briefly on
6 behalf of a coalition of over 40 electric transportation
7 champions with many years of experience, the Strong
8 Plug-in Hybrid Vehicle Coalition.

9 My name is Bob Graham. I've been active on
10 electric and hybrid vehicle issues since 1990. MY last
11 position was as Director of EV Everywhere at the U.S. DOE
12 during the last two years of the Obama administration.

13 The Strong PHEV Coalition has two requests.
14 First, please don't change the PHEV provisions in the
15 staff proposal. No one knows how to reach 100 percent
16 sales of battery, fuel cell, and plug-in hybrid EVs. So
17 it is wise -- very wise for CARB to hedge its bet on the
18 future by including PHEVs with tough requirements and
19 restrictions in the proposed ACC II.

20 PHEVs will be needed by many types of consumers,
21 including low-income drivers, people who residents often,
22 change jobs often, or work two jobs, drivers in rural and
23 cold weather regions, drivers that toe campers, boats and
24 trailers, and other market segments.

25 Because of the difficulty of reaching a hundred

1 percent sales in such a short time, our second request is
2 we ask that the draft Board resolution be explicit in
3 calling for a technology and a progress review in two or
4 maybe three years that the Board resolution asks for five
5 things.

6 One, conduct a comparative analysis on PHEV and
7 the EV costs. Two, perform an analysis on how CARB can
8 advance bidirectional charging in PHEVs and ZEVs. Three,
9 determine whether the new ACC II needs to be adjusted for
10 Class 1 or 2a PHEVs and ZEVs. Four, pursue the value of
11 PHEVs as a platform for low-carbon alternative fuels in
12 the future. And five, conduct another analysis as
13 determined by CARB staff.

14 Thank you.

15 BOARD CLERK GARCIA: Thank you.

16 Allis, I have activated your microphone. Please
17 unmute and begin.

18 ALIS DRUFFEL: Hello ARB Board members and staff.
19 My name is Allis Druffel and I work with California
20 Interfaith Power and Light. With a public health crisis,
21 a climate crisis, and the reality of the Sixth Mass
22 Extinction taking place now, we are looking to our
23 regulatory agencies more than ever to make real impactful
24 policies to transition us to a healthier world.

25 The staff's presentation was very professional

1 and informative. And fundamentally because of the
2 multiple crisis happening linked to transportation
3 pollution, in part, I, representing hundreds of thousands
4 of people of faith in California, am urging a faster
5 timeline for the adoption of ZEVs to 75 percent ZEVs cars
6 by 2030 and mandatory equity provisions.

7 Pollution from transportation has had a deep
8 affect on my life. I experienced severe asthma as a
9 child. Two of my nieces now suffer from, at times,
10 debilitating asthma on a daily basis. And in 2018, my
11 sister Carolyn, who is the light of our family, her
12 church, and her community died of metastatic breast
13 cancer.

14 She had learned that her housing tract was built
15 on top of old, supposedly cleaned up, oil fields, and that
16 there was a cancer cluster in her area. She lived close
17 to the Torrance Oil Refinery and close to the Ports of Los
18 Angeles and Long Beach. It is tragic when one person
19 dies, and it is an environmental injustice that a majority
20 of people who suffer illnesses and premature death are
21 people of color, who live in close proximity to pollution
22 sources.

23 Thank you.

24 BOARD CLERK GARCIA: Thank you.

25 I will now pass it over to Katie for the

1 in-person commenters.

2 BOARD CLERK ESTABROOK: Thank you.

3 We currently have 100 people with their -- that
4 have turned in a request-to-speak card and wish to speak
5 in person. We'll be showing a list of the next several
6 commenters on the screen, so that you can be prepared to
7 come down to the podium. But please note that we'll be
8 alternating back and forth between the Zoom and in-person
9 commenters.

10 So our first commenter will be David Barker. And
11 you can use this podium here and you'll need to turn the
12 mic on if it's not on.

13 DAVID BARKER: Is this good?

14 Thank you, Chair Randolph, Vice Chair Berg, and
15 the entire Board for allowing me the chance to speak
16 today. My name is David Barker. I'm the Energy and
17 Environmental Activities Manager for the North American
18 Subaru.

19 Subaru fully supports and electric net carbon --
20 net zero carbon future. Today's Advance Clean Cars
21 proposal aims to set a very challenging path for the U.S.
22 auto industry. Meeting its objectives in California and
23 the U.S. -- or the 177 states will require significant
24 action from all stakeholders to send clear signals to
25 consumers that they can confidently embrace electric

1 vehicle technologies.

2 There are very real challenges in meeting
3 consumer demand for affordability, ease of charging, while
4 at the same time overcoming existing global supply chain
5 disruptions and limited access to critical minerals. And
6 all of these challenges are amplified for smaller
7 manufacturers like Subaru. Our path to achieving an
8 all-electric future is different than larger OEMs. Our
9 small size globally in terms of capital resources and
10 having only five production lines across two manufacturing
11 plants worldwide requires deliberate approach -- a more
12 deliberate approach to achieving transformative change.

13 Subaru vehicles are uniquely affordable,
14 efficient, off-road, capable products that contribute to a
15 diverse and competitive market in California and the U.S.
16 Our all electric future must account for our distinct
17 differences in the market and provide us the ability to
18 achieve the necessary scale for a hundred percent ZEV
19 sales.

20 Today, we have the following requests. Subaru
21 supports adoption of the proposal submitted by auto
22 innovators. The requested changes are -- changes are
23 reasonable and will help support long-term success of the
24 program. And second given the monumental task in
25 front of us, we encourage the Board to closely monitor EV

1 market development in the coming years and consider
2 establishing metrics to quantify its progress and be able
3 to adapt accordingly.

4 Subaru will continue working with the Board and
5 staff to ensure successful transition to electric --
6 vehicle electrification.

7 Thank you very much.

8 BOARD CLERK ESTABROOK: Thank you.

9 Steven Henderson.

10 There should be a button there.

11 STEVEN HENDERSON: There we go.

12 BOARD CLERK ESTABROOK: And then I'll just ask
13 that everyone just leave the mic on during public comment.

14 Thanks.

15 STEVEN HENDERSON: Good morning. I'm Steve
16 Henderson, Manager of Regulatory Compliance at Ford Motor
17 Company and I thank you for the opportunity to provide
18 comment today.

19 At Ford, we're proud of our partnership with
20 California for stronger vehicle CO2 standards forged
21 during a time when climate action was under attack. Now,
22 this week Ford renewed its commitment to this partnership
23 by intervening in a lawsuit to protect California's
24 authority to set emission standards. We're committed to
25 an EV future that includes everybody. And we're leading

1 the electrification revolution with over \$50 billion of
2 spending through 2026. Turning to the rule, it's
3 impossible to overstate the importance of the Advanced
4 Clean Cars II Rule, and we support this rule.

5 We applaud the renewed focus on transportation
6 equity and congratulate CARB staff on a skillful
7 implementation of criteria emissions standards that are
8 strong and achievable. We do have one suggestion that we
9 feel could make the rule stronger. While we support the
10 intent of the EV battery durability provision, we cannot
11 support the provision as it is currently written. If
12 implemented unchanged, this requirement will increase the
13 cost and weight of EV vehicles sold in California with no
14 new vehicle customer benefit. It will result in EVs for
15 sale in California having less range at the same cost and
16 weight as identical EVs for sale in other U.S. states. It
17 will limit our ability to fully unlock features that
18 provide electrical grid resiliency and it will force
19 manufacturers to put limits on fast charging and V2X.

20 We share the goal of ensuring that customers can
21 confidently purchase used EVs, but we believe there are
22 ways to do this without adding cost and weight to new
23 vehicles. If CARB proceeds with the implementation of the
24 durability requirement as currently written, we
25 respectfully request that a mod -- it be modified to

1 initiate in data gathering only mode to void a negative
2 impact on EV sales in California.

3 In closing, we'd like to reiterate our overall
4 support for the rule and thank the CARB leadership, and
5 Board members, and staff for allowing us to comment.

6 Thank you.

7 BOARD CLERK ESTABROOK: Thank you.

8 BOARD MEMBER SPERLING: And I just -- and I would
9 like to thank Ford for taking leadership in intervening on
10 behalf of California in the -- regarding authority of
11 California on -- with the Clean Air Act. Thank you.

12 BOARD MEMBER TAKVORIAN: I have a question, sir,
13 Mr. Henderson. Sorry. I just wanted to ask what your
14 projection of your -- the use of the equity credits would
15 be over the next 10 years?

16 STEVEN HENDERSON: I'm sorry. I don't have that,
17 Board Member Takvorian. We do plan to use them, but I
18 don't have a projection for a number.

19 BOARD MEMBER TAKVORIAN: Think you could get one?

20 STEVEN HENDERSON: I'm sure I could.

21 BOARD MEMBER TAKVORIAN: That would be great.

22 Thank you.

23 STEVEN HENDERSON: Thank you.

24 BOARD CLERK ESTABROOK: All right. Kevin Curley.

25 KEVIN CURLEY: Good morning, Chair Randolph and

1 members of the Board. My name is Kevin Curley and I am
2 the manager of Vehicle Emission Certification and
3 Compliance for Mazda Northern American operations.

4 As a member of the Alliance for Automotive
5 Innovation, we support their comments today. Mazda is a
6 smaller independent automaker not owned by a larger brand
7 and sells light-duty vehicles globally with U.S.
8 operations headquartered in Irvine, California. Despite
9 being a smaller company, Mazda was able to achieve the
10 highest fleet average fuel economy of all OEMs for five
11 years in a row.

12 The proposed ZEV sales percentage standards in
13 the Advanced Clean Cars II regulations are incredibly
14 challenging and will require tremendous resources from
15 OEMs in order to transition to electrification. This
16 transition is even more difficult for smaller companies
17 like Mazda.

18 In addition to the already challenging annual ZEV
19 percentage standards, extra requirements such as minimum
20 range, battery durability, and limits on credit
21 flexibility will add unnecessary costs and potentially
22 decrease affordability of ZEVs. Separately, the proposed
23 changes to ICE criteria emissions requirements could
24 reduce the already limited R&D resources from
25 electrification.

1 While some of the new test procedures may only
2 require calibration changes to comply, we are concerned
3 that others may potentially require additional hardware to
4 achieve.

5 Finally, California has made progress on
6 supportive measures for ZEVs, such as charging
7 infrastructure, building codes, and purchase incentives,
8 but more is needed and other states are lagging far
9 behind. Without these complementary measures to
10 accelerate customer demand in the Section 177 states, it
11 will be very difficult to increase ZEV percentages from
12 their current low levels.

13 Thank you for your time.

14 BOARD CLERK ESTABROOK: Thank you.

15 Sarah Somorai.

16 SARAH SOMORAI: Hello. Chair Randolph, Board
17 members, and CARB staff, my name is Sarah Somorai and I'm
18 the Manager of Ecostrategy in testifying on behalf of
19 Hyundai Motor America.

20 First, I'd like to thank staff for their efforts
21 in bringing this item to you today. Next, as a member of
22 the Alliance of Automotive Innovation, Hyundai fully
23 endorses its comments and would like to draw specific
24 attention to those relating to flexibilities and
25 durability concerns. Hyundai is committed to clean

1 vehicles for all Californians.

2 Our parent, Hyundai Motor Company, has made early
3 and significant investments into battery and hydrogen fuel
4 cell technology. As such, we have a competitive lineup of
5 hybrids, plug-in hybrids, battery and fuel cell electric
6 vehicles to meet every consumer's needs.

7 We full support the intent of CARB's ACC II
8 proposal. That does not mean that meeting the proposed
9 ZEV sales requirements will be easy. In fact, it will be
10 extremely challenging not only in California, but
11 especially in states that adopt ACC II, as they are much
12 further behind in ZEV adoption, infrastructure, and
13 incentives. Hyundai commits to innovate, invest, and
14 advance our technology to support the State's efforts to
15 deliver cleaner air to Californians. But the auto
16 industry is just one piece of the puzzle.

17 Key public policies must be in place to support
18 the regulation. These include increased infrastructure
19 funding for public, in-home, and multi-unit dwelling
20 charging, as well as hydrogen fueling stations, expand
21 vehicle incentive programs, especially for lower income
22 Californians, and consumer education to increase market
23 acceptance.

24 In addition, we request that CARB support
25 legislation that is technology neutral to support both

1 battery and fuel cell electric vehicle and work with other
2 stakeholder agencies to do the same.

3 Oh. We applaud CARB for working closely with the
4 environment justice advocates.

5 Oh, my time is up. Okay. Thank you.

6 BOARD CLERK ESTABROOK: Thank you.

7 Jim Verburg.

8 JIM VERBURG: Good morning, Chair Randolph,
9 members of the Board. I'm Jim Verburg, Fuels Director
10 with WSPA trade organization representing companies in
11 California and for other western states that provide
12 biotransportation fuels and other energy supplies. In
13 California, member companies employ over 360,000 people,
14 while making sizable contributions to California's economy
15 and continuing to invest in emissions reduction technology
16 and renewable fuels to reduce transportation sector
17 emissions.

18 We believe that California should be able to
19 choose a vehicle technology, including electric vehicles,
20 that best fits their needs, based on availability,
21 affordability, personal necessity. In line with that
22 belief, we want to brief you on the issues with the
23 proposal.

24 The proposal includes shortcomings and
25 inconsistencies with the analysis regarding technological

1 demonstrations, environmental assessment, cost
2 effectiveness, and lack of alternatives analysis, and
3 legal concerns inherent with phasing out an entire
4 industry. We would instead recommend a technology-neutral
5 performance-based approach that allows for innovation and
6 reduces emissions in the transportation sector. This
7 includes fairly accounting for life-cycle emissions for
8 both traditional vehicles and electrical vehicles. The
9 Ramboll study, attached to our letter demonstrates that
10 performance-based standards transitioning to lower
11 emission liquid fuels could achieve similar life cycle
12 emissions reductions at a faster rate without rebuilding
13 the entire transportation system. We are concerned with
14 California becoming overreliant on just one system,
15 electricity, as the grid is expected to struggle through
16 another summer. The proposal falls short of performing
17 the analysis necessary.

18 We are concerned that CARB does not -- has
19 considered the impact of transitioning the transportation
20 sector. By way of example, the EO calls for a transition
21 roadmap to be adopted by a labor workforce development
22 agency by July of 2021. This has not happened. We
23 understood that this would require a group effort. By
24 pushing forward CARB risks significant impacts to our most
25 vulnerable populations.

1 Lastly, at minimum, we strongly encourage CARB to
2 incorporate cost containment mechanisms.

3 Than for your time.

4 BOARD CLERK ESTABROOK: Thank you.

5 Jenny Gilger.

6 JENNY GILGER: Chair Randolph, Vice Chair Berg,
7 and members of the Board, my name is Jenny Gilger and I'm
8 a Vice President with American Honda Motor Company based
9 in Torrance, California.

10 For decades, Honda has made great strides in
11 reducing our environmental footprint, improving the
12 efficiency, carbon profile, and tailpipe emissions of our
13 vehicles. We have also invested in, designed, developed,
14 and produced electric vehicles and we agree with this
15 Board. The ultimate goal was a widespread, affordable,
16 zero-emissions fleet.

17 We also have steadfastly supported California's
18 right to regulate, even as recently as this week when
19 choosing to intervene in the case of Ohio versus EPA.
20 Make no mistake, however, the regulations being brought to
21 this Board today, particularly in the program's early
22 years, are extremely challenging. This is especially true
23 in the Section 177 states, where adoption rates remain
24 well below those found in California, even with committed
25 actions by states to help foster EV markets.

1 From a program viability standpoint, there's
2 reasonable cause for concern. According to a market
3 analysis we conducted, traditional automakers will in just
4 three years, need to increase electric vehicle sales
5 between 5 and 20 times current levels, depending on the
6 state, simply to meet the 2026 requirements.

7 This is a profound expectation placed on
8 regulated parties, and ultimately on new vehicle buyers in
9 those states. In the meantime, flexibility, such as
10 those -- such as the use of converted credits averaged
11 over a five-year window, rather than a per year cap, will
12 remain vitally important. It's also critical that
13 regulated parties be permitted to use flexibilities in a
14 way that makes sense for their unique products and
15 individual compliance strategies.

16 Honda shares the agency's view that all customers
17 should have access to clean mobility. And given the
18 current market challenges, tying flexibility access to the
19 use of environmental justice credits, or for that matter,
20 any programmatic element would be inappropriate at this
21 juncture.

22 In summary, a thoughtfully designed program with
23 sufficient flexibilities and necessary non-discriminatory
24 complementary measures will be critical to achieving our
25 shared goal. Thank you.

1 BOARD CLERK ESTABROOK: Thank you.

2 Jeff Wuttke. And apologies if I mispronounced
3 your name.

4 JEFF WUTTKE: Good morning, Chair Randolph and
5 members of the Board. My name is Jeff Wuttke and I am the
6 California Regulatory Programs Lead for Stellantis.
7 Stellantis is a global automaker formed in early 2021 by
8 the combination Fiat/Chrysler and the Peugeot Group, whose
9 U.S. product lineup includes Chrysler, Dodge, Jeep, Ram,
10 Fiat, Alfa Romero, and a Maserati brands.

11 Stellantis is committed to an electrified future,
12 investing more than \$30 billion through 2025. We plan to
13 produce over 25 new battery electric vehicle models in the
14 U.S. representing 50 percent of our nationwide sales by
15 2030. We clearly support the goals of the ACC II
16 Regulation, increasing electrification, and lowering
17 criteria emissions. Stellantis is committed to doing its
18 part by making exciting electrified vehicles that
19 consumers want to buy. But we are also asking for help
20 from government, energy providers, and other stakeholders
21 to achieve ACC II's ambitious volume targets with
22 market-transforming actions, including improving EV
23 affordability with incentives that provide access to more
24 consumers, creating a readily available public charging
25 infrastructure that lowers consumer anxiety, creating a

1 robust supply chain to provide the needed batteries and EV
2 components, and educating consumers on the benefits of EVs
3 with more programs like Veloz and NESCAUM. These actions
4 are essential and falling short will risk the success of
5 the most ambitious electrification regulation California
6 and Section 177 states have ever adopted.

7 Stellantis will continue to work constructively
8 with CARB staff on a few remaining open points and aspects
9 of the proposed rule. These include ensuring alignment of
10 this rule with the United Nations rules on battery
11 durability, technical requirements that don't risk the
12 affordability of PHEVs, and in-use test procedures that
13 allow for efficient ICE technology, while medium-duty
14 trucks continue to progress towards electrification.

15 Thank you for the opportunity to provide comments
16 today.

17 BOARD CLERK ESTABROOK: Thank you.

18 Steve Douglas.

19 STEVEN DOUGLAS: Thank you, Chair Randolph,
20 members of the Board. I'm Steve Douglas, Vice President
21 of Energy and Environment with the Alliance for Automotive
22 Innovation. We represent car companies that produce about
23 98 percent of the new vehicles in the United States as
24 well as some of the world's leading Tier 1 suppliers and
25 technology companies.

1 I'd like to be clear the Advanced Clean Cars II
2 regulations that you're reviewing today, these are the
3 most sweeping transformative regulations in the history of
4 our industry. There's no question about it. They will
5 have a vast effect on the U.S. economy, or on at least a
6 vast swath of the U.S. economy and the California economy,
7 and they change the way people have lived, worked, and
8 played for over a century.

9 Moreover, the success of these regulations, as
10 you've heard, depends on a lot more than these
11 regulations. It depends on more than the vehicles that
12 are produced from them. The success will require
13 addressing charging and fueling infrastructure, vehicle
14 and fuel costs, critical minerals, supply chain, labor,
15 and customer education.

16 Some of these are within our control, us, the
17 industry, and the Board. Most of them are not. Just to
18 be clear though, from the industry's perspective,
19 electrification is our focus. Automakers are committed to
20 leading this transformation and have plans to spend a half
21 trillion dollars by the end of this decade on
22 electrification. But these requirements are incredibly
23 aggressive and California, as you've heard, EV sales have
24 to triple, and most of the Section 177 states they have to
25 go up by sevenfold in the next three model years.

1 So we will work to meet whatever you adopt, but
2 again, they're extremely challenging even in California,
3 and in some states they may not be possible, in some of
4 the states that follow California.

5 Finally, our association members are committed to
6 working with the equity community to implement -- identify
7 and implement --

8 BOARD CLERK ESTABROOK: Thank you, Steve.

9 STEVEN DOUGLAS: Thanks.

10 BOARD CLERK ESTABROOK: Thanks.

11 Next, will be Amy Lilly.

12 AMY LILLY: Good morning. My name is Amy Lilly
13 with Mercedes-Benz Research and Development North America.
14 Mercedes applauds CARB's efforts to champion the ZEV
15 market and the staff's time and hard work in developing
16 these rules.

17 The effort has paid off with nearly every
18 automaker announcing plans to electrify their fleets. In
19 fact, Mercedes plans to be carbon neutral by 2039, and all
20 of our vehicles will be electrified by the end of the
21 decade, where the market is ready.

22 Despite this optimism, complementary measures are
23 needed. California and the Section 177 states need to
24 ensure adequate infrastructure and incentives while
25 working on outreach activities.

1 In addition to the detailed comments we have
2 submitted, I would like to address two specific topics,
3 providing flexibility in meeting datastream requirements
4 to maximize ZEV sales and aligning battery durability
5 provisions to global standards, which will provide
6 customer assurance about the life of the battery.

7 First, despite our efforts to meet or exceed
8 customer's EV expectations and comply with the proposed
9 ZEV assurance measures, we may not be able to certify and
10 sell our EVs in California, unless they meet the data
11 standardization requirements.

12 Our EVs are high quality luxury vehicles, which
13 will far exceed the regulated 200 miles minimum range. We
14 are also offering class-leading warranties, and our
15 battery durability will meet the minimum performance
16 requirements in the UNECE GGR. We are committed to this
17 transformation.

18 Meeting these requirements, however, will involve
19 both lead time and financial investment. While CARB
20 proposed a two year phase-in, additional lead time is
21 needed to update our products. They are not -- they are
22 not final these -- these new requirements and they differ
23 from current EV communication protocols, and they require
24 new fault code reporting. These elements may limit ZEV
25 penetration without sufficient flexibilities for vehicles

1 that meet all of the other quality requirements.

2 Therefore, we ask that CARB allow flexibility in
3 the form of certification without credits for ZEVs, if
4 they comply with all quality assurance measures.

5 BOARD CLERK ESTABROOK: Thank you.

6 All right. Tom Cackette.

7 TOM CACKETTE: Good morning. I'm Tom Cackette
8 and I'm representing the more than three million members
9 of the Environmental Defense Fund today.

10 The regulation that you're considering will
11 establish CARB as a leader for the country and I think the
12 world by demonstrating a cost effective and defined
13 pathway to all zero-emission passenger vehicles. The
14 increasing number of ZEVs and ZEV models you see on the
15 road today is visible evidence that the transition to 100
16 percent zero-emission vehicles has taken off.

17 The opportunity facing the Board today is to grab
18 this trend, accelerate it, and help assure it stays on a
19 path to a hundred percent ZEVs by 2035. This is time for
20 bold and decisive action, given the enormous stakes.

21 We have two requests for you today. The first
22 request addresses the equity provisions of the proposed
23 rule. The current staff proposal for equity is entirely
24 voluntary and could result in little or no OEM
25 participation. This is an outcome that must be avoided.

1 The EJ community has offered an approach that
2 would increase the probability of OEM participation while
3 meeting ARB's need for a non-mandatory program. This
4 approach is not reflected in the proposal in front of you
5 today.

6 Our request is for you to direct the staff to
7 strengthen the equity positions for your consideration at
8 the August meeting. Our second request is to develop a
9 greater level of ambition for 2030 ZEV sales. Our written
10 comments present data on how costs will be lower than
11 staff projected and every vehicle on the road results in
12 fewer CO2 emissions remaining in the atmosphere for
13 hundreds of years. So more and earlier is better for the
14 climate.

15 Finally, we've looked at the 13-day -- or 15-day
16 proposals and some of them raise concerns that they may
17 reduce the benefit of this rule. And EDF will provide
18 input during the comment period and I hope your staff will
19 too. Thank you very much.

20 BOARD CLERK ESTABROOK: Thank you.

21 And it's been 30 minutes, Chair, so we'll go
22 ahead and close the sign-ups. And then I'll pass it back
23 to Lindsay to do a couple in Zoom.

24 BOARD CLERK GARCIA: Thank you.

25 The next five remote commenters will be Scott

1 Brierley, Anthony Bento, Chip Sharpe, Rasto Brezny, and
2 Kevin Brown.

3 So Scott, I have activated your microphone.
4 Please unmute and you can begin.

5 SCOTT BRIERLEY: Great. Thank you very much,
6 Lindsay. Good morn -- good morning. This is Scott
7 Brierley. Thank you, Chair Randolph and CARB members for
8 this opportunity to speak with you. My name is Scott
9 Brierley and I'm the Director of Automotive and Strategic
10 Partnerships at Fermata Energy, a V2X bidirectional
11 charging services company, which has over 10 years of
12 experience with vehicle-to-grid and vehicle-to-building
13 applications.

14 We understand that CARB staff is interested in
15 the benefits of bidirectional charging, but was not able
16 to incorporate this into the ACC II Regulation. We
17 respectfully ask that the draft ACC II Board Resolution be
18 amended to ask CARB staff to conduct a technology review
19 and return in about two years with recommendations on
20 incentives and possible regulations that CARB could enact
21 to promote or require bidirectional charging in ACC II and
22 potentially in other CARB programs for cars, trucks, and
23 buses.

24 We believe that the CARB board creates
25 game-changing policies that can help solve the chicken and

1 the egg problem with bidirectional charging. In the
2 nearer term, CARB's upcoming rulemaking on the Low Carbon
3 Fuel Standard should include credits for discharging EVs
4 not just for charging. As PG&E's CEO Patty Poppe
5 highlighted in an interview with the LA Times in October
6 2021, EVs on the road in PG&E's service area have about
7 6,700 megawatts of capacity, which equates to the capacity
8 of approximately three Diablo Canyon Nuclear power plants.

9 By leveraging EVs -- or bidirectionally enabled
10 EVs to power homes and buildings, flex alerts could be
11 avoided. Furthermore, with the EV volumes increasing in
12 the coming years, it will be critical more than ever to
13 rely in part on bidirectionally enabled EVs to support the
14 grid, rather than being just a power draw.

15 So in conclusion, I would like to thank you again
16 for your time today. California has historically been a
17 leader in establishing policies that support these types
18 of emerging technologies and CARB has a unique opportunity
19 to continue in this trend. If Fermata Energy can help
20 CARB with any questions or provide further clarity, please
21 let us know.

22 Thank you.

23 BOARD CLERK GARCIA: Thank you.

24 Anthony, I have activated your microphone.

25 Please unmute and you can begin.

1 ANTHONY BENTO: Thank you for the opportunity to
2 comment. My name is Anthony Bento and I represent the
3 California New Car Dealers Association. As we mentioned
4 in our written comments, the California New Car Dealers
5 Association supports our state's leadership in furthering
6 the world's transition to zero-emission vehicles and our
7 dealers are stepping up and making unprecedented
8 investments in their workforce and facilities to
9 successfully sell and service ZEVs, but dealers cannot
10 sell vehicles they do not have.

11 We are concerned that global shortages of key
12 materials necessary to construct electric vehicles, such
13 as lithium, may greatly impact the supply of zero-emission
14 vehicles during the ACC II compliance period.

15 Indeed, the CEO of EV manufacturer Rivian
16 recently commented that current vehicle supply constraints
17 related to the semiconductor shortage may be quote, "A
18 small appetizer to what the industry is about to feel on
19 battery sales over the next two...

20 BOARD CLERK GARCIA: Anthony, are you there?

21 ANTHONY BENTO: Oh, I'm sorry. I thought I was
22 un -- can you hear me now?

23 BOARD CLERK GARCIA: Yes, we can.

24 ANTHONY BENTO: My apologies.

25 Thank you for the opportunity to comment.

1 My name is Anthony Bento and I represent the
2 California New Car Dealers Association.

3 As we mentioned in our written comments, the
4 California New Car Dealers Association supports our
5 state's leadership in furthering the world's transition to
6 zero-emission vehicles, and dealers are stepping up and
7 making unprecedented investments in their workforce and
8 facilities to successfully sell and service ZEVs, but
9 dealers cannot sell vehicles they do not have.

10 We are concerned that global shortages of key
11 materials necessary to construct electric vehicles, such
12 as lithium, may greatly impact the supply of zero-emission
13 vehicles during the ACC II compliance period. Indeed, the
14 CEO of EV manufacturer Rivian recently commented that
15 current vehicle supply constraints related the
16 semiconductor shortage may be quote, "A small appetizer to
17 what the industry is about to feel on battery sales during
18 the next two decades," end quote.

19 Experience during the pandemic shows that a
20 decline in new vehicle supply directly impacts the
21 affordability of both new and used vehicles. This harms
22 low and moderate income consumers most as vehicles become
23 less accessible and affordable and it delays the
24 retirement of the oldest and most polluting vehicles on
25 the road.

1 In light of these concerns, we ask that CARB
2 incorporate a formal mid-term review process into its
3 Advanced Clean Cars II regulations. A mid-term review
4 will allow CARB officials to evaluate whether the ACC II
5 regulations are on track and providing Californians access
6 to both clean and affordable transportation.

7 Thank you.

8 BOARD CLERK GARCIA: Thank you.

9 Chip, I have activated your microphone. Please
10 unmute and you can begin.

11 CHIP SHARPE: I'm Chip Sharpe, resident of
12 Northern California. Thank you for your work to Advanced
13 Clean Cars. My wife and I purchased our first EV in 2014
14 in order to protect our planet. We bought our second EV
15 in 2016 and will never again purchase an ICE. We felt
16 blessed to be able to ride in such a comfortable, safe,
17 and responsive car. We also felt blessed to have had
18 enough money to buy two expensive cars that we could plug
19 in at home ready to roll each morning. We became vocal
20 advocates for EVs, eager for everyone to enjoy similar
21 safety, cost savings, and convenience.

22 We offered to share our California rebate with
23 friends and acquaintances so that they could purchase a
24 new or used EV. However, at that time, the cost was still
25 out of their reach.

1 Even with today's advent of more affordable
2 models, widespread adoption of EVs is going to require
3 government and community support. This includes requiring
4 manufacturing and infrastructure corporations to focus on
5 providing EVs in low-income neighborhoods that suffer the
6 most from tailpipe emissions. For those living near
7 poverty levels, larger rebates, manufacturer discounts,
8 and low or no interest loans will be necessary. Home
9 charging must be facilitated for apartment dwellers. To
10 assuage range anxiety, outlets should be provided at
11 workplaces, shopping areas, and along city streets.

12 This is a matter of life and death. Putting
13 safer vehicles on our roadways and preventing the
14 thousands of deaths that now occur every year as a result
15 of polluted area. Thank you for requiring the assistance
16 of major corporations and achieving our goal to making EVs
17 available to everyone.

18 BOARD CLERK GARCIA: Thank you.

19 Okay. Rasto, I have activated your microphone.
20 Please unmute and begin.

21 DR. RASTO BREZNY: Good Morning, Chair Randolph
22 and members of the Board. I'm Rasto Brezny, the Executive
23 Director for the Manufacturers of Emission Controls
24 Association.

25 MECA has submitted written comments in support of

1 the proposal and today will highlight several areas where
2 the proposal could be strengthened. MECA is a non-profit
3 trade association of the world's leading suppliers of
4 technologies for clean mobility. This is a tremendously
5 exciting time for the automotive industry, given the
6 diversity of advanced technologies that are being deployed
7 on vehicles.

8 MECA members are supplying the cleanest engine
9 efficiency and after-treatment technology for conventional
10 cars, while also commercializing batteries, electric
11 motors, fuel cells, and power electronic for electric cars
12 such as the next generation 800 volt architectures that
13 will make electric vehicles more efficient, with longer
14 range, and faster charging capability.

15 The regulation bridges the transition from
16 predominantly combustion cars sold today to all electric
17 cars sold in the future. To accelerate emission
18 reductions and minimize the environmental impact of
19 transportation, we must not only increase EV penetration,
20 but also tighten emission standards on the millions of
21 combustion cars that will be produced.

22 There is three areas where technology exists to
23 strengthen the proposal: CARB should align the US06 PM
24 limit with the FTP limit in both stringency and phase-in
25 to take advantage of existing technologies that already

1 exist in Europe, China, and India; strengthen --
2 strengthening medium-duty vehicle PM and NOx standards,
3 based on engine and after-treatment technology already
4 used on similar vehicles today; increase the 20 percent
5 compliance cap for plug-in hybrid electric vehicles while
6 strengthening the evaporative canister capacity for
7 hybrids to prevent backsliding on VOC emissions.

8 Adoption of an ambitious ACC II rule will provide
9 regulatory certainty to support continued investments in
10 the transition of transportation. I thank staff for their
11 dedication in bringing you this proposal and for this
12 opportunity to provide comments.

13 Next, my colleague Kevin Brown will expand on the
14 available technologies to achieve the goals of the
15 proposed rule.

16 Thank you.

17 BOARD CLERK GARCIA: Thank you.

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

20 KEVIN BROWN: Good morning. I'm Kevin Brown WITH
21 MECA. I'd like to highlight the variety of existing
22 technologies that can be used by vehicle manufacturers to
23 meet even tighter light- and medium-duty standards than
24 those currently proposed. With regards to light-duty and
25 medium-duty particulate matter proposed standards. By

1 2023, vehicles in the European Union, India, and China
2 will already be equipped with advanced fuel injection and
3 particular filters in response to particulate number
4 standards approximately equivalent to half a milligram per
5 mile. This limit is already being met by vehicles
6 equipped with these technologies, which are being exported
7 from the United States to these markets.

8 We believe that an aligned FTP and US06 PM limit
9 in both stringency and timing achievable and will reduce
10 ultrafine particles by 99 percent, as well as eliminate
11 carcinogens, toxics, and climate forcing black carbon by
12 similar amounts. With regards to medium-duty vehicles,
13 some of today's medium-duty vehicles already have
14 emissions that are well below the proposed standards.
15 Because of this fact, we suggest that staff set more
16 stringent NOx and PM standards that reflects -- reflect
17 best-in-class compliance.

18 MECA members are commercializing a full suite of
19 technologies in response to the omnibus heavy-duty
20 standards. And these same technologies can be readily
21 applied to medium-duty chassis-certified vehicles as well.
22 Next generation catalysts deployed on high-porosity
23 substrates and particular filters combined with advanced
24 engine efficiency thermal management and hybrid powertrain
25 technologies to allow chassis-certified gasoline and

1 diesel medium-duty vehicles to meet more stringent
2 standards over all duty cycles.

3 With regards to minimum ZEV performance
4 requirements for light-duty plug-in hybrid vehicles, our
5 sample -- example calculations show that raising the 20
6 percent PHEV sales cap until at least 2030 would further
7 maximize CO2 reductions while providing a greater number
8 of consumers with an improved assurance of a wider variety
9 of affordable ZEV vehicle choices, while charging
10 infrastructure and critical battery mineral supply chains
11 develop.

12 In closing, I'd like to make sure that our
13 industry remains committed to delivering cost effective
14 technologies.

15 Thank you.

16 BOARD CLERK GARCIA: Thank yo. I'll now turn it
17 over to Katie for continuing our in-person commenters.

18 BOARD CLERK ESTABROOK: Thank you. So the list
19 that you can see up on the screen, the next commenters, I
20 will be calling on you. If you want to go ahead and make
21 your way down so -- just for the sake of time, maybe the
22 next couple can come line up here by the stairs.

23 So first will be Greg Potter.

24 GREG POTTER: Is this on?

25 There we go. I can still say good morning. My

1 name is Greg Potter and I'm the CTO of ETI, the Equipment
2 and Tool Institute. ETI is a non-profit automotive
3 aftermarket trade association that represents over 90
4 percent of automotive diagnostic tool manufacturers in the
5 United States.

6 ETI applauds the efforts of the Air Resources
7 Board in its drive to enhance public acceptance of
8 zero-emission vehicles. Paramount to this effort is
9 having current and future owners full knowledge of the
10 status of their powertrain and understanding that their
11 vehicle can be repaired properly at the service centers of
12 their choice.

13 The access to vehicle repair information
14 standardized diagnostic data, tools, and training to
15 independent repair facilities, and tool equipment
16 manufacturers, is essential to the safe and proper repair
17 of ZEV vehicles in the automotive service network. The
18 ACC II proposal will help in that effort.

19 Thank you.

20 BOARD CLERK ESTABROOK: Thank you.

21 Simon Mui.

22 SIMON MUI: Good afternoon, Chairwoman Randolph
23 and members of the Board. I'm Simon Mui, Director of
24 NRDC's Clean Vehicles and Fuels Group. Thanks for the
25 opportunity to testify today and to staff and the Board

1 for all their hard work over the past couple years.

2 This next phase of the Advanced Clean Cars
3 standard is really one of the most significant rules the
4 Board has looked at the past decade, if not over its 55
5 year storied history. We strongly support ARB's goal of
6 hitting a hundred percent sales. And there's a lot of
7 good elements in this proposal. But the path up to 100
8 percent is really critical. And in the spirit of
9 gardening ZEV garden analogy, there's some excessive
10 flexibilities that need to be weeded out.

11 First is the reintroduction of the fuel cell
12 travel that allows fuel cells in California to count
13 multiple times across the states. We opposed these 10
14 years ago as phantom credits and we oppose them again.
15 The second crediting issue is the relaxation of the
16 guardrails on the use of historic credits, the 10
17 percent -- the 15 percent.

18 On -- the good news is that we do see ARB's
19 proposals as actually being pretty conservative here in
20 California for a number of reasons. And you could
21 actually tighten it up in the 2030 time frame to 75
22 percent. The reason is the fact that California has
23 announced over \$10 billion in proposed ZEV investments,
24 the largest amount ever by a subnational government.
25 That's a lot of feed and fertilize to go around.

1 Europe and China also, we only need to look over
2 there. They just adopted strong standards before us and
3 have now leapfrogged California in terms of sales, and
4 three to five times more models available there than here.

5 So let's make sure we're ambitious with ramping
6 up and tune-up the crediting flexibility. The proposed
7 resolution by the California Clean Cars Campaign that will
8 be presented will help with these issues as well as the
9 equity provisions.

10 Thank you to ARB Board and staff for your work.

11 BOARD CLERK ESTABROOK: Thank you.

12 Chuck Shulock.

13 CHUCK SHULOCK: Good morning, Madam Chair, Board
14 members. I'm Chuck Shulock, a retired CARB staffer now
15 working as a consultant for NRDC on ZEV issues. While at
16 CARB, I led the staff teams on the 2001 and 2003 ZEV
17 rulemakings. So let me start by also acknowledging the
18 historic nature of what's before you here.

19 The ZEV Program has had fits and starts, delays,
20 rollbacks, trade-offs, and lots of controversy. But
21 through it all, the Board has maintained consistent
22 pressure on manufacturers to advance the technology. That
23 pressure has paid off. Somewhere along the way, the
24 notion of 100 percent zero went from being a distant hope
25 to quote Steve Douglas, the industry's focus. It's pretty

1 amazing.

2 Which brings us to today. Simon Mui and other
3 speakers have outlined how the proposal could be improved.
4 I'm going to focus on feasibility in the 177 states and
5 how that relates to the recommended changes.

6 We all know that sales are lower outside of
7 California. The staff proposal takes that into account,
8 and many of its flexibilities address these disparate
9 starting positions. The staff analysis didn't project 177
10 state stringency. I've looked at various scenarios and
11 concluded that a reasonable estimate is that ZEV sales in
12 the 177 states would need to be about 21 percent in 2026
13 rather than the 35 percent nominally required under the
14 regulation.

15 U.S. EPA has just strengthened the national
16 standards for GHG tailpipe emissions, that will get --
17 which will get much of the way there. Moreover, the real
18 issue is not the suitability of ZEV technology, but rather
19 the availability of complementary policies or equity
20 programs that take advantage of these provisions. The
21 policies are needed, but the best way to get them in place
22 is not to kick the can down the road, but rather to
23 provide a strong incentive. Concerns about 177 states
24 should not limit your ambition here.

25 Thank you.

1 BOARD CLERK ESTABROOK: Thank you.

2 Bill Magavern.

3 BILL MAGAVERN: Good morning, Madam Chair and
4 members. Bill Magavern with Coalition for Clean Air.
5 Good to be with you in person after a long gap and
6 especially glad that the podium still goes up.

7 (Laughter.)

8 BILL MAGAVERN: It goes down too, so other
9 speakers can lower it if you want.

10 I think that this Board's greatest successes in
11 its storied history have been improvements in vehicle
12 engine technology. From catalyst to greenhouse gas
13 standards, to ZEV standards, CARB has really been
14 responsible for making our cars on the road today much
15 cleaner than they would have been otherwise. And we
16 salute the Governor and the Board for now taking the steps
17 to transition all sales to ZEVs by 2035.

18 I think your deliberation should be guided by two
19 overriding principles. One is to maximize the emission
20 reductions. We're looking at unfortunately probably
21 another summer of smog and smoke from wildfires. And it's
22 urgent that we get those emission reductions. And second
23 is providing clean mobility for all Californians, those
24 who own cars and those who don't own cars. We need to
25 democratize the electric vehicle and clean mobility in

1 general. So for those reasons, we urge you to get to 75
2 percent of new sales being ZEVs by 2030. We can do it and
3 we need to do it.

4 Also, that you not be too generous with credits.
5 I agree with Simon Mui's comments in opposition to the
6 relaxations that are proposed in the 15-day changes. And
7 you should ensure that the automakers participate in the
8 equity incentives without sacrificing emission reductions.
9 I agree with Board Member Takvorian on that point.

10 We support the proposed strengthening of tailpipe
11 standards, which is important, and also the battery
12 warranty requirements to ensure consumer confidence in
13 ZEVs and urge that you keep the durability requirement at
14 80 percent.

15 Thank you.

16 BOARD CLERK ESTABROOK: Thank you.

17 Anne-Marie Otey.

18 ANNE-MARIE OTEY: Good morning. I'm Anne-Marie
19 Otey. I'm representing 140,000 members of 48 building
20 trades, local unions, and district councils in Los Angeles
21 and Orange counties. We join you at CARB in the goal to
22 reduce air pollution in California, but for several
23 reasons.

24 The proposed policy to drastically cut and end
25 the sale of gas powered vehicles is not the way to do

1 that. It is too much change too fast. Your own report
2 says that we will loose a net 40,000 jobs. And there's no
3 guarantee that other jobs generated by this policy will
4 bring the wages, benefits, and security of our current
5 building trades union jobs.

6 The policy neglects the huge challenge of
7 building enough ZEVs to meet your requirements. Over the
8 next 15 years, the mining and extraction system in the
9 U.S. will not produce enough lithium for all the batteries
10 needed. This will create scarcity, which means punishing
11 high prices for Californian working families.

12 In addition, ZEVs are not the sole answer to our
13 environmental woes. They still create break and tire
14 dust. They have the same power to kill in crashes that
15 gas vehicles do. We urge you to make an overall paradigm
16 change. Double the amount the State gives to fund public
17 union-built mass transit. That is a visionary answer.
18 Decreasing our dependence on passenger vehicles by
19 creating thorough and safe mass transit to supplement
20 private vehicles. We also ask that when California
21 subsidizes the sale, lease, and charging of ZEVs, that it
22 only finance those that have been built union, in a union
23 built facility. That is one big step toward keeping good
24 union jobs in California.

25 Thank you very much.

1 BOARD CLERK ESTABROOK: Thank you.

2 CHAIR RANDOLPH: Board Clerk, I just wanted to
3 note, we will plan on taking a lunch break at 12:15, so
4 we'll do some commenters and then we'll plan on a break at
5 12:15.

6 DANIEL BARAD: Good afternoon, Chair and members.
7 Daniel Barad on behalf of Sierra Club California and our
8 500,000 members and supporters throughout the state.
9 Thank you for the opportunity to comment.

10 The propose Advanced Clean Cars II Rule is too
11 weak as drafted. And before it can be adopted later this
12 year, we urge the Board to strengthen the ZEV sales
13 requirements to not include further flexibility that
14 allows certain OEMs to drag their feet on ZEV adoption and
15 to ensure that the rule is equitable.

16 For the state to meet its federal air quality
17 obligations and to do its part to slow the climate crisis,
18 we are going to need to significantly decrease emissions
19 in the light-duty transportation sector. And this rule is
20 California's hope -- best hope of doing just that.

21 We applaud and support the proposed endpoint of
22 100 percent ZEV sales by 2035. However, California can
23 and must set bolder targets in the years leading up to
24 2035. Every car sold will be on the road for more than a
25 decade. So each year, with lower targets, means we

1 leaving GHG and NOx reductions on the table for years to
2 come.

3 We believe that the sales requirements should be
4 increased to at least 75 percent in 2030. This is more in
5 line with what CARB's own analysis in the Mobile Source
6 Strategy shows is necessary to achieve federal air quality
7 standards. Along those same lines, CARB cannot afford to
8 weaken the sales requirements any further by adding
9 additional credit flexibilities as outlined by my
10 colleague NRDC. The results of added leeway is continued
11 unhealthy air and a less livable planet.

12 Finally, the proposed equity components of the
13 rule are too weak as they are voluntary and would count
14 against the overall stringency of the rule. These
15 components must be made mandatory or at least constructed
16 in a way that strongly incentivizes the placement of ZEVs
17 in frontline communities.

18 Thank you very much.

19 BOARD CLERK ESTABROOK: Thank you.

20 Jade Northrup.

21 JADE NORTHRUP: How do I make this thing go up?

22 I hear rumors. Okay. Thank you.

23 Hi. My name is Jade Northrup. I work for Pixar
24 Animation Studios in Emeryville as a pipeline supervisor.
25 And I'm a volunteer with Extinction Rebellion, San

1 Francisco Bay Area. Thanks for the opportunity to speak.

2 I want to start by mentioning that the National
3 Center for Environmental Information states that the
4 average cost from climate related natural disasters was up
5 to \$14.2 billion per year in California alone by the end
6 of 2021. That's up from about 0 to 2 billion for all
7 previous decades on record. Let that sink in. Each year,
8 we're racking up more damages from climate related
9 disasters in California than we had during entire previous
10 generations. Those numbers are only going up.

11 In terms of economic consequences of pollution, I
12 can't think of a more dangerous threat to our health,
13 environment, and prosperity than continuing carbon
14 emissions at present levels any longer than we have to.

15 According to the CEC, California's transportation
16 sector accounts for 50 percent of the state's greenhouse
17 gas emissions. No other section is poised to make as big
18 an impact as quickly. I urge you to strengthen the ACC II
19 rule to a hundred percent clean cars by 2030 with
20 mandatory equity provisions. Otherwise, existing market
21 forces could outpace credits available and actually
22 incentivize slowing down delivery of ZEVs and eliminate
23 benefits from manufacturers from participating in the
24 voluntary equity programs, if they outpace credits.

25 I have friends in their 20s and 30s that joke

1 that their retirement plans are to die in a heat wave or
2 to perish in a wildfire. It's pretty heartbreaking.

3 We need strong government direction to make the
4 radical changes needed to confront the crisis. Consumers
5 didn't want to switch to efficient light bulbs, but as
6 government regulation drove the transition, supply on the
7 shelves changed, consumers bought what was available,
8 costs dropped, quality increased, and today's modern LED
9 bulbs are superior to incandescents in pretty every way.

10 Another -- another point is in terms of gas
11 prices, if we don't consider the social cost of carbon by
12 2030, the cost --

13 BOARD CLERK ESTABROOK: Thank you.

14 JADE NORTHRUP: -- benefit analysis is ZEVs won't
15 make sense from consumers. Gas prices are going to be
16 astronomic in 2030 and beyond.

17 BOARD CLERK ESTABROOK: Thank you. That
18 concludes your time.

19 JADE NORTHRUP: Thanks for your time.

20 BOARD CLERK ESTABROOK: Our next speaker --

21 (Applause.)

22 BOARD CLERK ESTABROOK: -- will be Craig Spooner.

23 CRAIG SPOONER: Good day, Chair and Board. My
24 name is Greg Spooner. I'm a San Francisco resident, a
25 business owner, scientist, and a climate organizer with

1 Scientist Rebellion and Extinction Rebellion.

2 I'm here to urge CARB to push for a stronger ACC
3 II Program. The statements -- the program standard at
4 present will not deliver the pollution cuts we need fast
5 enough. Many Californians are breathing unhealthy air.
6 You have the power and the responsibility to do something
7 about it. You should prioritize the health and well-being
8 of residents over fossil fuel companies and car companies.
9 The way to do that is to move aggressively away from ICE
10 cars.

11 While EVs and zero-emission vehicle adoption
12 won't solve our pollution and climate crisis problems, we
13 can agree that every ICE car sold in California worsens
14 the climate crisis, degrades air quality -- oops --
15 degrades air quality and locks in years of emissions in
16 fossil fuel infrastructure. I heard one CARB staffer
17 describe this morning that part of the breathing rule --
18 part of the proposed rule provides breathing room for CARB
19 manufacturers to meet fleet targets. Well, Californians
20 are running out of breathing room themselves.

21 I strongly urge that the CARB adopt a rule that
22 gets to a hundred percent EV sales by 2030. This is
23 California's biggest chance to make a difference in air
24 quality and climate. This plan does not get us there.
25 The proposed rule lets too many polluting ICE cars be sold

1 a decade from now. I know more than one Cal -- Northern
2 California friend who has fled wildfires and a burning
3 home in a gasoline powered car, the same kind of car that
4 emits the pollutants that are heating our planet, drying
5 out our forests, polluting our air, leading to more
6 wildfires, and foreclosing a livable future for
7 Californians.

8 ICE cars have to go and fast. Thank you very
9 much.

10 BOARD CLERK ESTABROOK: Thank you.

11 (Applause.)

12 BOARD CLERK ESTABROOK: Our next three speakers
13 that you can see on here, I think, Chair, will end at
14 around 12:15, if I just take these last few.

15 Leana Rosetti.

16 LEANA ROSETTI: Thank you, Board. My name is
17 Leana Rosetti and I also am here representing Extinction
18 Rebellion San Francisco Bay Area. And I come from
19 Oakland. I'm a mother of two small children, so this
20 carries a lot of personal weight for me as well.

21 We urge you that you make the voluntary equity
22 requirements mandatory, otherwise it is likely that
23 automakers will not need to do any of them and frontline
24 communities get left behind with little access to ZEVs
25 once again, all while being exposed to the most air

1 pollution. CARB has authority to do this and it is
2 especially justified, considering that the greatest
3 emissions gains would likely be seen in low-income
4 communities.

5 A 2020 study focused on older vehicles, found
6 that those vehicles produced more NOx and other pollutants
7 and that these vehicles are disproportionately located in
8 low-wealth communities throughout California.

9 We also urge that you require that all vehicles
10 be ZEVs by 2030. 2035 is too late. Scientists have
11 repeatedly warned us that we no longer have time for
12 incremental change, a rapid transition is necessary to
13 avoid climate catastrophe. There's no room for new fossil
14 fuel infrastructure.

15 Cars stay on the road for at least 15 to 20
16 years. So if we keep them on the road till 2035, that
17 will make it impossible for California to reach its State
18 and federal emissions goals. Roughly two million
19 additional gas vehicles would be sold and that would be an
20 estimated 69 million metric tons of CO2 over their life
21 times.

22 Ten million people a year already die from air
23 pollution caused by fossil fuels. That's more millions of
24 people than we're estimating will be dying from all of the
25 climate disasters that will come and be worse and worse.

1 These climate disasters are locked in. It's something we
2 can do to at least keep things from getting worse. Please
3 make this rule stronger.

4 Thank you.

5 BOARD CLERK ESTABROOK: Thank you.

6 (Applause.)

7 BOARD CLERK ESTABROOK: Kathy Kerridge.

8 KATHY KERRIDGE: Thank you. I'm Kathy Kerridge
9 with 350 Bay Area Action. I live in Benicia, which is in
10 the refinery corridor and we have the high asthma rates
11 and the high cancer rates to prove it. I myself am a
12 cancer survivor. I applaud your efforts to go forward
13 with this. I mean, it really is significant what we're
14 doing here in California, but we really need to do better
15 and this is a unique opportunity that we have.

16 We need to act like we are at war, because we
17 are. We are at war with rising CO2 levels and with air
18 pollution. And just as when we went to war in World War
19 II, we ramped up industrial production at a phenomenal
20 rate. And I believe that American industry and the
21 automakers can do it today.

22 We really need to have all ZEVs by 2030. 2035 is
23 too long. If we're still selling ICE vehicles in 2035,
24 that means they're going to be on the road in 2050 and we
25 cannot afford that. We are seeing increasing climate

1 catastrophes. We have just experienced the highest 20C
2 readings -- or CO2 readings in millions and millions of
3 years. They're not going down. It is not going down. We
4 need to recognize that we are at war. We know the
5 benefits of EV vehicles. Anyone who has driven an EV
6 vehicle like I have knows that they're great, they're
7 cheap, they're quiet, they're cost effective. And making
8 sure everybody owns them by 2030 is going to be a plus for
9 California, not a minus.

10 Thank you.

11 BOARD CLERK ESTABROOK: Thank you.

12 (Applause.)

13 BOARD CLERK ESTABROOK: Emily McCabe.

14 EMILY MCCABE: Hello. Thank you for allowing
15 public comment today.

16 My name is Emily McCabe. I'm an intern with
17 Environment California and I'm also a student studying
18 Society, Environment, and Technology at University of
19 California, Berkeley.

20 I'm originally from Chico, Northern California,
21 and in 2018 the Camp Fire destroyed the town of Paradise
22 15 minutes away from my home. I recently visited and the
23 community is still recovering four years later. In my
24 time at school, I've done research that shows that climate
25 change is driving increasing severity and frequency of

1 wildfires in California. This shows that we need to
2 transition away from fossil fuels as quickly as possible,
3 which is why I support strengthening the EV sales
4 requirement by 2030, and including equity provisions.

5 California has a duty to continue their
6 leadership with ambitious rules that set the standard for
7 other states to follow. In this way, we have a chance of
8 addressing the climate crisis. Thank you very much.

9 (Applause.)

10 BOARD CLERK ESTABROOK: Thank you.

11 Okay. Chair, that includes the commenters that
12 will land before 12:15.

13 CHAIR RANDOLPH: All right. We will now take a
14 lunch break for 45 minutes -- approximately 45 minutes.
15 We'll return at 1 p.m. Thank you very much.

16 (Off record: 12:12 p.m.)

17 (Thereupon a lunch break was taken.)

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1 AFTERNOON SESSION

2 (On record: 1:03 p.m.)

3 CHAIR RANDOLPH: We have returned from our lunch
4 break and we are continuing public comment.

5 Board Clerk, will you please call the next
6 commenters?

7 BOARD CLERK ESTABROOK: Thank you, Chair. I'm
8 going to start with folks in the room. And so you can see
9 the next few up here on the screen. If you can go ahead
10 an start making your way down, maybe the next couple, just
11 for time sake. And so the first will be Lori Pesante.

12 LORI PESANTE: Good afternoon. I know everybody
13 is right after lunch, but do a little stretching. We've
14 got this.

15 My name is Lori Pesante and I'm the Director of
16 Civic Engagement for the Dolores Huerta Foundation. I
17 live in Bakersfield and we're very lucky to have my son
18 Darius with us today. I have a big box of nebulizer
19 medication for him. I know I'm speaking the language of a
20 lot of people who are here, because we don't just want to
21 see the typical customer addressed, right? We don't just
22 want to see the average person addressed. We want to see
23 the most vulnerable. We want to see that the 78.6 percent
24 of people in Kern County who are people of color and who
25 live on the margins, that they are front and center here

1 today.

2 And guess what, the first ten people who spoke
3 today, they were from industry and from WSPA. I felt like
4 I was at a Kern County Board of Supervisors meeting.

5 (Laughter.)

6 LORI PESANTE: Okay. I'm sorry, but, if we
7 care -- equity is not an option. Let's be very clear
8 about that. Equity is never optional, because when he
9 turns 19 in 2030, I want us to see us at a hundred
10 percent, a hundred percent zero-emission vehicles.
11 Because we can't send our kids out to play, y'all. We
12 can't -- my cousin is a PE teacher in Delano. Do you know
13 how many days they have to be inside, and now with COVID
14 and the other things, really just showing us so concretely
15 how inequitable our systems are. We cannot settle for the
16 bare minimum. We have to treat this like the Emergency
17 that it is. And I am here to serve in any way that you
18 need us to. My contact information has been provided to
19 your clerk. Please reach out, because there are a lot of
20 voices that aren't here.

21 Thank you.

22 BOARD CLERK ESTABROOK: Thank you.

23 David Patterson.

24 (Applause.)

25 Okay. Laura Deehan.

1 LAURA DEEHAN: Are you supposed to leave your
2 mask on or take it off. Take off. Okay.

3 Hello. My name is Laura Deehan. I'm the State
4 Director for Environment California and the Environment
5 California Research and Policy Center. Thank you so much
6 for being here today and for all of your work to figure
7 out how California can continue our leadership to address
8 our air pollution crisis, and the climate crisis, and lead
9 the country and the world in doing so.

10 So here in California, Environment California and
11 Environment California Research and Policy Center released
12 a report just last year that looked at the air pollution
13 still affecting our state. And we found that 98 percent
14 of Californians are living in a place that has more than
15 30 days of unsafe air, and really truly is still affecting
16 everyone in our state. And so it's urgent that we address
17 the air pollution crisis.

18 And, of course, we're all experiencing today once
19 again with this really hot day, an example of the climate
20 crisis that's already happening all around us, which
21 underscores why it's so urgent that California continue to
22 do as much as we can to push forward a clean
23 transportation future.

24 And so with me today, I also brought the
25 signatures public comment from an additional over 1,000

1 Californians from -- I looked. It was from Agoura Hills
2 all the way down to Yucca Valley. So a lot of different
3 parts of the state who are all joining with us today with
4 California Clean Cars Campaign to support a more
5 aggressive timeline to really continue to lead and make
6 sure California is continuing to get more clean cars on
7 the road much faster, at least 75 percent zero-emission
8 vehicle sales by 2030, as well as 45 percent by 2026. So
9 we're strongly in support of at least that.

10 Thank you so much for being here today and for
11 listening.

12 Where should I leave the comments.

13 BOARD CLERK ESTABROOK: Thank you. Yeah, we'll
14 take them.

15 Okay. Next will be that Tatanka Chris Bricca.

16 TATANKA CHRIS BRICCA: Tatanka Bricca here from
17 Circle of 100. We have 100 volunteers working with the
18 Romero Institute and Dolores Huerta Foundation, which has
19 resulted in Senate Bill 1230 sponsored by Monique Limón.

20 I'm here to speak for the -- to just say that --
21 and I want to thank you for all your work. I've built
22 coalitions my whole life. I know how difficult it is
23 to -- with all competing interests not to lose sight of
24 the ones that aren't here, that is the next seven
25 generations. Not that you don't already do this, but just

1 remembering the young ones and remembering that, yes, it
2 was just last month that the North Pole went over 50
3 degrees Fahrenheit, south pole 70 degrees. Remembering
4 that the famines and the et cetera around the world, but
5 we are a fire refugees from the Santa Cruz mountains. We
6 now live in Saratoga and don't pretend that we,
7 California, are climate leaders, if we're talking 2035.
8 That would have been fine 15, 10, maybe even five years
9 ago, but we don't have 13 years to get this together. We
10 just don't.

11 So remember the scientists that are telling us
12 what's there. Remember the methane under the ice that is
13 no longer under the ice that will put things way out of
14 control, and remember by 2030 even if we accomplish
15 everything we want to do by 2030, we are still going to
16 suffer extreme water shortage, and extreme fire, and we're
17 all going to have to live through it. So let's get it
18 done and let's be the real climate leaders.

19 Thank you very much.

20 BOARD CLERK ESTABROOK: Thank you.

21 Dylan Jaff.

22 (Applause.)

23 BOARD CLERK ESTABROOK: And then again, if the
24 next couple could come and stand here along these stairs,
25 so that you're ready to go, that be would great. Thank

1 you.

2 DYLAN JAFF: Hi. Good afternoon, Chair Randolph,
3 and members of the Board. Dylan Jaff, Sustainability
4 Policy at Consumer Reports. We thank you for the
5 opportunity to comment on the proposed ACC II Rule and
6 thank CARB staff for their work in putting together this
7 proposal. We are pleased to see CARB's proposal to
8 accelerate the transition to a hundred percent ZEV sales
9 by 2035 and support CARB setting an aggressive ramp-up in
10 stringency leading up to this date, as this measure will
11 bring substantial emissions reductions throughout the
12 state and helping alleviating transportation costs for
13 many consumers.

14 Our analysis finds that based on today's average
15 gas and electricity rates, battery electric vehicles in
16 California can save an average of \$2,600 in fuel and
17 maintenance costs with an electric car, SUV, or pickup.
18 Additionally, our 2021 survey of California consumer
19 attitudes towards electric vehicles show that over 50
20 percent of Californians right now, either definitely plan
21 to or would consider getting a plug-in EV as their next
22 vehicle. California consumers are ready to drive this
23 transition and the State should continue to lean into
24 strategies that will get us there.

25 Additionally, CR thanks CARB for its emphasis on

1 consumer protections, warranties, and assurances, as well
2 as inclusion of right to repair provision. Consumer
3 Reports supports these proposals as originally proposed,
4 as these strong rules will give consumers, especially on
5 the secondary market, piece of mind that their investments
6 will maintain reliability throughout their useful life.

7 While the ZEV equity program proposed by CARB has
8 merit, there is no certainty that provisions will be
9 utilized by automakers as the proposed rule remains
10 voluntary. Given what we understand about climate change
11 and the disproportionate impacts on low-income and
12 disadvantaged communities, emphasis needs to be placed on
13 both increasing accessibility to ZEVs and reducing
14 emissions.

15 For these reasons, CR expresses concern that
16 the -- making the equity component of the rule voluntary
17 would not truly accomplish the goal of increasing
18 accessibility and could erode stringency of the rule.

19 Therefore, we are asking that CARB change the
20 equity component of the rule from voluntary to mandatory.
21 Short of a mandatory equity provision, the next best
22 alternative would be to condition the use of non-equity
23 credits to those OEMs participating in the equity
24 component of the rule.

25 We thank CARB and CARB staff for the opportunity

1 to comment and look forward to hearing back on the rest of
2 our comments. Thank you.

3 BOARD CLERK ESTABROOK: Thank you.

4 Kalysta.

5 KALYSTA BARRIOS: Hi. My name is Kalysta Barrios
6 and I'm an intern at Environment California. I'm also a
7 College student at UC Merced, where in the Central Valley,
8 there is some of the worst air quality. We're also
9 affected by drought, wildfires, and extreme heat due to
10 the climate crisis. I do believe that zero-emission
11 vehicles will help reduce emissions, but this proposal is
12 not strong enough or fast enough to transition the vehicle
13 market as soon as possible.

14 I support at least 45 percent zero-emission
15 vehicles by 2026 and 75 percent by 2030.

16 Thank you.

17 BOARD CLERK ESTABROOK: Thank you.

18 Michael Lord.

19 MICHAEL LORD: Good afternoon. Mike -- Michael
20 Lord from Toyota. It's been 25 years since Toyota
21 launched the first mass market electrified vehicle, the
22 Prius. Since then, we were one of the first with a retail
23 battery EV, plug-in hybrid, and the world's first mass
24 market -- mass produced fuel cell vehicle the Mirai.

25 If we learned one thing over 25 years, that we

1 need a wide range of electrification options to lure
2 customers away from ICEs. So it is committed to carbon
3 neutrality, but we have concerns about the extremely
4 challenging staff proposal and the tripling of the vehicle
5 volumes in three years. We also remain concerned that
6 there are too many without access to charging. This is
7 why we continue to spend billions to develop fuel cell
8 vehicles despite the fact that infrastructure is yet to
9 keep up in pace.

10 We also believe there's a substantial market
11 segment that could benefit from the EV range of PHEVs,
12 coupled with a gasoline backup PHEVs provide. These
13 market and infrastructure realities underpin our two
14 requests today. First, we ask you to extend the interim
15 30-mile range requirement for Class 2A trucks to
16 additional years through 2030 model year.

17 The carbon reduction potential for larger PHEV
18 trucks is significant as the potential market demand among
19 construction contracts, utility vehicles, emergency
20 fleets, and consumers who need to tow a boat.

21 But our most pressing request involves fuel cell
22 vehicles and the provision that allows fuel cell vehicles
23 placed in California to count towards ZEV targets in other
24 states that yet do not have hydrogen infrastructure in
25 place. Working with Honda and Hyundai and listening to

1 the concerns of the Section 177 states and staff, we've
2 worked on an approach reflected in the staff's 15-day
3 change today, that while limited, will still allow
4 critical incentives to pursue fuel cell vehicles as a
5 compliance option in California.

6 We believe this -- staff has a balanced proposal
7 on this critical matter. We support it and thank them for
8 helping us develop a pathway with your sister states to.
9 Ensure that we other ought make con to expand fuel cell
10 offerings as we accelerate the battery EV and PHEV
11 markets.

12 Thank you.

13 BOARD CLERK ESTABROOK: Thank you.

14 BOARD MEMBER KRACOV: That's good to hear. Thank
15 you.

16 BOARD CLERK ESTABROOK: Ameen Khan. I do see
17 someone by that name in Zoom, so you may have had to leave
18 and transition. So I will activate your microphone. If
19 you're with us in Zoom, you can go ahead and give your
20 comment.

21 AMEEN KHAN: Hi. Can you hear me?

22 BOARD CLERK ESTABROOK: Yes.

23 AMEEN KHAN: Good afternoon, Chair Randolph and
24 members of the Board. My name is Ameen Khan. And I am
25 from California Environmental Voters, formerly the

1 California League of Conservation Voters.

2 I would like to thank the -- I would like to
3 thank CARB for your efforts in the development of the
4 Advanced Clean Cars II regulation and for the opportunity
5 to provide public comments. We applaud Governor Newsom
6 and CARB's leadership in treading a path for all new
7 passenger vehicles sold in California to be zero emission
8 by 2035.

9 The Advanced Clean Cars Rule is one of the most
10 significant opportunities to turn the tide against the
11 deepening climate crisis and toxic air pollution as cars
12 remain the largest source of greenhouse gas emissions.
13 Unfortunately, the current proposal starts slow and delays
14 ambition in new zero-emission vehicle sales until the
15 2030s.

16 Time is of the essence and we simply cannot waste
17 this critical decade. We need to be at the forefront with
18 an urgently needed ZEV transition with aggressive early
19 targets so that they are more affordable and widespread.
20 To do this, CARB should strengthen the Advanced Clean Cars
21 Rule in two ways.

22 One, revise the proposal to achieve a higher
23 volume of sales so that at a minimum, it achieves 75
24 percent in 2030. Secondly, include strong equity
25 standards that ensure that automakers increase

1 affordability and access to ZEVs for disadvantaged
2 communities.

3 The gravity of a climate crisis and the
4 obligation to improve the air for all means that this is
5 the time to double down on an accelerated and just
6 transition from combustion vehicles to an all electric
7 future.

8 California Environmental Voters looks forward to
9 the adoption of a robust and equitable ACC II rule, so
10 that all Californians can prosper from the environmental
11 health and economy benefits that zero-emission vehicles
12 provide.

13 Thank you.

14 BOARD CLERK ESTABROOK: Thank you.

15 I'll now ask Lindsay -- Lindsay, go ahead.

16 BOARD CLERK GARCIA: Thank you.

17 Okay. I will go to the next five remote
18 commenters. That will be Tom Van Heeke, Cristina Marquez,
19 James Fahy, Joseph Mendelson, and Peter Slowik.

20 Tom, I have activated your microphone. You can
21 unmute and begin.

22 TOM VAN HEEKE: Good afternoon. Thank you, Chair
23 Randolph and members of the Board. My name is Tom Van
24 Heeke. I'm Senior Policy Advisor at Rivian Automotive, a
25 California headquartered company. I appreciate the

1 opportunity to speak today on the proposed Advanced Clean
2 Cars II Rule. It is Rivian's mission to keep the world
3 adventurous forever, with a focus on the design and
4 development of all electric vehicles, including pickups,
5 SUVs, and commercial vans.

6 Rivian strongly supports California's efforts to
7 reduce transportation emissions and grow the ZEV market.
8 The proposed ACC II Regulation is an important part of
9 those efforts. We are supportive of the proposed
10 regulation's direction, goals, and many of its provisions,
11 but have specific comments and concerns regarding certain
12 aspects of the proposal.

13 Number one, Rivian is conceptually supportive of
14 the various ZEV assurance measures included in the
15 proposal, but continues to be concerned about the proposed
16 battery durability requirement. As written, we are
17 concerned that the requirement will force OEMs to build in
18 reserve capacity, increasing the vehicle cost while
19 degrading performance. While Rivian agrees that
20 transparent battery health and durability is important,
21 the proposed requirements will work against ZEV market
22 development. We suggest CARB adopt a durability
23 requirement aligned with the UN global technical
24 regulation or the initiate proposal in data gathering mode
25 only.

1 Number two, it is also critical that ACC II
2 preserve credit earning optionality for medium-duty ZEVs.
3 Under current regulation, manufacturers have the options
4 to earn credits under either ACC I or ACT but not both.
5 We note and welcome the 15-day updates to the draft
6 regulation that appear to ensure that that flexibility
7 will remain.

8 Finally, we believe that there continues to be an
9 opportunity to consider greater stringency in the program.
10 This could be achieved through a combination of more
11 ambitious interim requirements, such as a 2030 target of
12 75 percent, a pulling forward of the 100 percent ZEV sales
13 target year, and/or phasing out credits for PHEVs, a
14 transitional technology that will only serve a sustained
15 and avoidable baseline of tailpipe emissions.

16 Thank you again to staff for their efforts and to
17 the Board for this opportunity to speak. Rivian looks
18 forward to the conclusion of this rulemaking.

19 BOARD CLERK GARCIA: Thank you.

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

22 CRISTINA MARQUEZ: Thank you. Good afternoon.
23 Cristina Marquez, speaking on behalf of IBEW 569 and our
24 3,500 power professionals and electricians in San Diego
25 and Imperial counties. With our coalition partners, we

1 support a stronger more equitable Advanced Clean Cars
2 Program. Accelerating EV adoption in California could
3 provide a massive economic stimulus resulting in hundreds
4 of thousands of new jobs, if achieved at rate in line with
5 meetings that State's climate targets.

6 Further, IBEW members and journey level
7 electricians certified with the EVITP, or Electric Vehicle
8 Infrastructure Training Program, certification are ready
9 to build out the necessary EV infrastructure to equitably
10 and fully transition California to adopt zero-emissions
11 electric vehicles.

12 Additionally, a strengthened Clean Cars
13 Regulation and policy will incentivize job creation
14 derived from continued development of renewable energy and
15 upgrades to California's electrical grid. These
16 electrical careers are good green union jobs, with six
17 figure salaries, full family health care and pensions to
18 be realized because California has taken the high road in
19 requiring EVITP and apprenticeships in this regulation.

20 Please prioritize the health and well-being of
21 all Californians by strengthening the program and include
22 equity provisions to meet our climate and clean air goals,
23 creat good green union jobs, and ensure that priority
24 communities receive the benefits of pollution-free cars
25 and lower GHGs.

1 We thank you CARB and CARB staff for all of your
2 hard work. Have a good day.

3 BOARD CLERK GARCIA: Thank you.

4 (Applause.)

5 BOARD CLERK GARCIA: James, I have activated your
6 microphone. Please unmute and begin.

7 JAMES FAHY: Thank you. Good afternoon, Chair
8 Randolph and members of the Board. My name is James Fahy
9 with Mercedes-Benz North America. Mercedes-Benz applauds
10 CARB's effort and staff's time and hard work in developing
11 these rules. Today, I'll focus on the proposed PEMS
12 in-use standard for medium duty vehicles. Mercedes-Benz
13 medium-duty vehicles, such as Sprinter vans are already
14 tested at 63 to 75 percent of their GCWR, during
15 certification.

16 We additionally provide off-cycle dyno tests at
17 these GCWR ratios with repeat cycles, varied temperature,
18 and at high altitude. Mercedes has been and will continue
19 to provide CARB with PEMS data, which we believe satisfies
20 CARB's stated intend with this new requirement. CARB
21 staff indicated during workshops that the Mercedes
22 Sprinter Van is not the target of the PEMS requirement,
23 and that the rule is primarily focused on pickup trucks
24 with high tow capacities and long periods of towing.

25 However, as written, the proposed regulation

1 would impact this vehicle. Mercedes Sprinter vans are
2 primarily used for last mile delivery applications, not
3 for towing. Last mile delivery vehicles prioritize
4 maneuverability and frequently reversed, rendering them
5 incompatible with towing.

6 Mercedes-Benz therefore requests revisions to the
7 tow capacity thresholds to accurately reflect vehicles
8 intended impacted by this new requirement. As
9 manufacturers modernize and electrify delivery vehicles,
10 increasing cost and limited availability of new vehicles
11 remain major concerns for end purchasers. The PEMS NOx
12 emissions standard proposed is four to six times more
13 stringent than SULEV 175 for model year 2027 proposing
14 significant development challenges.

15 Since the Mercedes Sprinter is not CARB's primary
16 target, we ask that CARB update the GCWR threshold from 14
17 to 16 thousand pounds. This modest increase in the
18 threshold would still ensure consistency and emission
19 control during towing without adding unnecessary costs for
20 vehicles not intended to be included, like last mile
21 delivery vehicles with low towing capacities.

22 Alternatively, CARB could include a ratio
23 requirement that vehicle weight without and without towing
24 capabilities to better define the applicability criteria,
25 which would continue to target vehicles with large towing

1 capacities, like medium-duty pickup trucks.

2 BOARD CLERK GARCIA: Thank you.

3 JAMES FAHY: Thank you.

4 BOARD CLERK GARCIA: Joseph, I have activated
5 your microphone. You may unmute and begin.

6 JOSEPH MENDELSON: Can you hear me?

7 BOARD CLERK GARCIA: Yes, we can.

8 JOSEPH MENDELSON: You can hear me?

9 BOARD CLERK GARCIA: Yes.

10 JOSEPH MENDELSON: I'm sorry. I'm sorry. The
11 computer phones here.

12 Thank you, Chair Randolph and Board members and
13 CARB staff. I'm Joe Mendelson. I'm Senior Counsel
14 with -- with Tesla. We have 45,000 employees in
15 California, and invested millions in EV charging
16 infrastructure, and are happy to be a leader in
17 (inaudible). We've also (inaudible) with California to
18 protect its authority. We support the proposal the goals
19 of --

20 BOARD CLERK GARCIA: Joseph, you're fading out.
21 We're having trouble hearing you.

22 JOSEPH MENDELSON: Okay. Let me.

23 I'm sorry. Can you hear me now?

24 BOARD CLERK GARCIA: Yes.

25 Okay. I believe we lost, Joseph.

1 BOARD CLERK GARCIA: Let's go to our next
2 commenter. Peter. Peter, I have activated your
3 microphone. Please unmute and begin.

4 PETER SLOWIK: Good afternoon. I'm Peter Slowik,
5 Senior Researcher at the International Council on Clean
6 Transportation. The ICCT appreciates the opportunity to
7 provide testimony on California's proposed Advanced Clean
8 Cars II regulations. Our comments are informed by the
9 research and analysis of ICCT staff and focus on the
10 following points.

11 First, our support for the proposed ACC II
12 Regulation, second, international context, and third,
13 technical observations on zero-emission vehicle compliance
14 costs.

15 The ICCT strongly supports the proposed Advanced
16 Clean Cars II regulation and recommends its adoption. As
17 a member of the ZEV Transition Council and the
18 International ZEV Aligns, California joins several of the
19 world's major vehicle markets with a shared commitment to
20 accelerate a global transition to ZEVs.

21 This transition is crucial for decarbonizing road
22 transport and meeting State and global climate goals.
23 ICCT modeling shows that limiting global warming to below
24 two degrees Celsius will require that leading markets,
25 including California, reach 100 percent new light-duty ZEV

1 sales no later than 2035. The Advanced Clean Cars II
2 Regulation will be key to achieving that goal.

3 On international context, California is not alone
4 in its commitment to transition entirely to ZEVs. Ten
5 countries and two other U.S. states have committed to
6 entirely phase out the sale or registration of new
7 combustion engine passenger vehicles by 2035, including
8 New York and Washington State.

9 California's proposed regulation for 100 percent
10 ZEV sales is aligned with other leading jurisdictions. On
11 ZEV costs, CARB staff analysis shows clear and significant
12 benefits associated with transitioning to 100 percent
13 ZEVs. However, we believe that staff estimates of
14 incremental battery electric vehicle costs are
15 conservative. Our research finds evidence that electric
16 vehicle costs can decline faster and cost parity reached
17 sooner than estimated by CARB staff. We believe that the
18 staff analysis of ZEV costs is conservative and that the
19 annual ZEV targets in the proposed ACC II regulation are
20 achievable and reasonable.

21 We submit our more detailed comments in writing.
22 Thank you for the opportunity to comment today and to the
23 Air Resources Board for continuing your important work on
24 this topic.

25 BOARD CLERK GARCIA: Thank you.

1 And it looks like Joseph is back on line. So
2 Joseph, if you can hear me, you can unmute and try your
3 comment again.

4 JOSEPH MENDELSON: Thank you so much. I
5 apologize about the audio problem.

6 Thank you, Chair Randolph, and Board members, and
7 CARB staff. I'm Joe Mendelson, senior counsel with Tesla.
8 We're happy to have 45,000 employees in California to have
9 invested millions in EV charging infrastructure and to
10 being a leader in making EVs one of California's top
11 exports. We've also consistently defended California's
12 authority in the number of -- in a number of the
13 litigations that have gone forward regarding the Clean Air
14 Act.

15 We support the proposal and CARB's goal of
16 getting to a hundred percent zero-emission vehicles as
17 rapidly as possible. Tesla indeed thinks we can do it by
18 2030. We hope that the proposal can be increased in
19 stringency. We think this PHEV flexibility can be
20 reduced.

21 These vehicles still pollute and indeed the EU
22 yesterday adopted a 2035 proposed phaseout that would
23 include PHEVs. We oppose the 15-day change and would like
24 to see the annual historic credit limit stay. And we
25 think all flexibilities could be capped at 20 percent

1 usage for compliance years.

2 On durability, we ask that the Board revisit this
3 requirement. We think it adds costs. It has no emissions
4 benefit and targets long-range vehicles. For example, a
5 40 -- a 400 mile range EV that retains 70 percent of its
6 range after 10 years would have a 280-mile range, but be
7 kicked out of the program. A 200-mile range vehicle that
8 has an 80 percent retention after 10 years would be 160
9 mile range and stay in the program. And I think we would
10 all agree that a 280-mile range EV is a better car on the
11 used market. So we ask the Board revisit the architecture
12 of that section. Thank you very much.

13 BOARD CLERK GARCIA: Thank you.

14 I will now pass it back to Katie for our
15 in-person commenters.

16 BOARD CLERK ESTABROOK: Thank you.

17 And Dave Patterson, who I called on earlier, I
18 believe that you're here. And then next I'll be calling
19 from the list that's on the screen, so if the next few can
20 go ahead and make their way down, that would be great.

21 DAVIE PATTERSON: Good afternoon. And thank you
22 for this opportunity to speak with you. I'm David
23 Patterson, professional engineer, former CARB staff
24 member, and now Executive Director of the CHAdeMO
25 Association for North America.

1 I'm speaking on behalf of 517 CHAdEMO Association
2 members from 47 countries. Currently, there is over
3 49,000 CHAdEMO chargers in 89 countries in this world. We
4 continue to grow and over 2,000 additional chargers were
5 installed in North America this past year.

6 Simply, we support staff's proposal to require DC
7 fast charging on all future electric vehicles. We agree
8 with staff charging behavior is being studied and is
9 changing as the BEV market continues to grow. However, we
10 strongly oppose staff's proposal to require CCS1 charging
11 standard. Staff justifies this requirement that EV
12 consumers are confused by the three different DC fast
13 charging systems, CHAdEMO, Tesla, and CCS. But CARB's
14 recent Electric Vehicle Supply Equipment standards
15 technology review concluded inoperable stations and
16 payment issues continue to be the barriers for drivers.
17 Please note, this report does not mention any problem with
18 any EV with a DC fast charger connector.

19 We are concerned that the staff's arbitrary
20 selection ignores key DC fast charging technologies. Two
21 significant deficiencies in the CCS standard are, there's
22 no compatibility testing between chargers and vehicles.
23 This causes inoperable stations and frustrated drivers.
24 And there's no bidirectional capability.

25 In contrast, CHAdEMO has had bidirectional

1 capability since 2012 and currently in California, there's
2 40,000 Mitsubishis and Nissans that are capable of
3 supplying power to the grid.

4 BOARD CLERK ESTABROOK: Thank you. Thank you.
5 Ben Keller.

6 DAVID PATTERSON: Thank you very much.

7 BEN KELLER: Thank you, Chair Randolph and the
8 Board. Good afternoon. My name is Ben Keller. I'm an
9 Oakland resident and a volunteer with 350 Bay Area.

10 Unfortunately, the carbon math is simple, and it
11 is brutal, and it does not lie. If we advance the draft
12 document that staff has prepared for you today, it will be
13 very difficult for California to meet its climate goals of
14 40 percent reductions by 2030, and it will be effectively
15 impossible for California to achieve the 70 to 80 percent
16 reductions by 2030 that IPCC report indicates that the
17 science demands in order to have any hope of keeping our
18 planet livable for the future.

19 This document, as proposed, groundbreaking though
20 it may be, is effectively an emission of defeat in our
21 climate fight. This is a -- this is a document submitting
22 our surrender. And I would urge the Board to direct staff
23 to consider a 100 percent by 2030 target or, at a bare
24 minimum, 75 percent by 2030, so that we can have some hope
25 of meeting our climate goals and maintaining a livable

1 future for all Californians.

2 Thank you for your consideration.

3 BOARD CLERK ESTABROOK: Thank you.

4 (Applause.)

5 BOARD CLERK ESTABROOK: Sasan Saadat.

6 SASAN SAADAT: I was also asked to make sure my
7 remarks are recorded on behalf of Bahram Fazeli who
8 couldn't be here today from Communities of -- for a Better
9 Environment.

10 But my name is Sasan Saadat. And I'm with
11 Earthjustice. I'm 27. Half of all greenhouse gas
12 emissions ever emitted happened during my lifetime.
13 Decades before I was born, scientists with several auto
14 companies knew that their product was damaging the planet
15 and warming it, and yet, those companies poured millions
16 into funding climate denial and lobbying to weaken
17 regulations like the one you are now considering.

18 In part, because of their success, we lost
19 precious decades we'll never get back. And cars are now
20 California's largest emission source. And in part, thanks
21 to your success in the past, we have exactly the
22 technology we need to slash those emissions. ZEVs are
23 here. They're cheaper to own. We -- people are lining up
24 in long wait lists to get them. It's one of our lowest
25 hanging fruit in the climate fight, and yet this rule

1 fails far short of what CARB staff's own models show are
2 necessary to meet our goals.

3 And inn staff's defense, their report is very
4 rigorous. Earthjustice's lawyers submitted a letter this
5 morning attesting to the very firm legal ground that this
6 rule is on. And if anything, the report makes very clear
7 that a far stronger rule is justified. That's because the
8 staff proposal shows that the proposal lacks not only an
9 ASAP scenario, also a more relaxed slow phase-in scenario,
10 it also lacks automakers own forecast of ZEV sales. It
11 also lacks what other countries around the world --
12 countries which until recently were behind us are now
13 achieving.

14 Californians living with the worst air pollution
15 with an unprecedented investment from the Governor's
16 budget in ZEVs, we should be championing the technology
17 that we helped mature, which brings me to my final point.
18 This rule can help ensure low income communities are not
19 the last to see the benefits, but the lack of stringency
20 and excessive credit flexibilities mean that voluntary EJ
21 incentives will either, A, not happen, or, B, come at the
22 expense of mass market deployment.

23 We've offered a solution that we think modestly
24 adjusts these credit flexibilities to ensure a stronger
25 equity proposal and we urge the Board to include them.

1 Thank you.

2 BOARD CLERK ESTABROOK: Thank you.

3 (Applause.)

4 BOARD CLERK ESTABROOK: Carol Loewenstein

5 CAROL LOEWENSTEIN: Thanks for listening.

6 Well, that was great, I have to say. I'm Carol
7 Loewenstein, co-founder of the Circle of 100 supporting
8 Romero Institutes, Let's Green California, and the
9 legislative work for bringing us to carbon zero by 2030.
10 We must do it. We feel such an urgency for massive change
11 now.

12 Most people don't make changes unless there's
13 discomfort impacting their lives personally, right? I'm a
14 fire evacuee. There's so much change going on in the
15 world that it seems out there until it's here, right? So
16 it's scary. I'm a health educator as well. There's so
17 many deaths that happen, like one in five I just saw that
18 affect cancer and bronchial problems. And that sort of
19 thing, because of the air -- the air quality, we have
20 to -- you know, we have committees that meet -- you know,
21 value the work that you're doing. It's like we need a
22 core part of every committee that goes what can we do to
23 do it now? Like, that -- that makes people go how can we
24 be outside the box and accelerate everything that has to
25 be done now?

1 All right. What would we need to do to make
2 change now that maybe hasn't been considered? It just --
3 we may live comfortably, but things are changing rapidly.
4 They really are. So making these changes for having the
5 charging stations everywhere, where there is -- ahh.

6 (Laughter.)

7 BOARD CLERK ESTABROOK: Thank you.

8 CAROL LOEWENSTEIN: Yes.

9 BOARD CLERK ESTABROOK: All right. Next will be
10 nick --

11 (Applause.)

12 BOARD CLERK ESTABROOK: -- Nick Ratto.

13 NICK RATTO: Chair Randolph and the Board,
14 appreciate the opportunity to speak. I wanted to applaud
15 you for taking on this really difficult job of rulemaking
16 in this case. Also want to state that I'm a -- I was born
17 and raised in Alameda, California, which is an island in
18 the San Francisco Bay between Oakland and San Francisco.

19 And with the latest projections, if the Antarctic
20 ice sheet is -- continues to melt as it has, there is a
21 very good chance that within five to 10 years, 80 percent
22 of that island of 80,000 people will be under water. And
23 that doesn't include all the other cities that rim the bay
24 that have shoreline, that will also be impacted. And
25 certainly all of the island nations in the Pacific and

1 basically the coast lines of our country as well.

2 So I think it's very clear with the growing
3 consensus that the estimates of thousands of climate
4 scientists over the years probably were underestimating
5 the problem being a little bit more conservative in
6 hindsight. So we have an issue here that requires urgent
7 attention. The nations of the Netherlands, Denmark,
8 Finland -- sorry, Sweden and Norway, as well as the
9 Chinese Province of Hainan have all -- had mandates for
10 zero-emission sales by 2030 -- for a hundred percent
11 zero-emission sales by 2030.

12 Also, the State of Washington enacted legislation
13 that's in place for zero-emission -- hundred percent
14 zero-emission passenger vehicles by 2030. So I think that
15 the Board knows that CARB has always been a leader and
16 California is a leader. So this is an opportunity to lead
17 and to get in there with the others that are being very
18 aggressive with the 2030 goal.

19 Thank you.

20 (Applause.)

21 BOARD CLERK ESTABROOK: Thank you.

22 Jeannine Pearce.

23 JEANNINE PEARCE: Thank you. Good afternoon,
24 Honorable Board members, Chair, Vice Chair, and staff. My
25 name is Jeannine Pearce. And I'm a new Policy Director

1 with Better World Group, and a prior council member to the
2 City of Long Beach, a city of half a million, where I
3 represented the port, our downtown, and Central Long
4 Beach, where people on average lived 17 years less than
5 people on Ocean Boulevard.

6 I'm here today because I spent my life working
7 for labor, for community, as a climate champion on the
8 board, and as a mother. I want to thank each of you
9 tremendously for being here. I understand what it's like
10 to be in your position, to have so many stakeholders
11 asking you to do the right thing, to have staff that's
12 worked so diligently to try to provide you with a
13 recommendation.

14 But I also know firsthand the impacts of asthma.
15 My daughter had infant asthma. Asthma to me meant having
16 to hold down the person I loved most while she screaming
17 her eyes out so I could put a mask on her, so she could
18 breathe for the doctor to tell me it's good that she's
19 screaming, because when she stops, she'll gasp for her
20 medicine. That is the experience that you guys are here
21 for. You're here to govern on our air quality, and I
22 thank you so much for that.

23 I want to say that while I'm new at BWG, I might
24 not be a policy expert on the auto industry. I might not
25 be an expert on the details of credits, but I have served

1 on council. I have worked alongside the labor movement
2 for over 20 years and I've served on SCAG.

3 And I know that right now you are in a position
4 where staff has worked hard and they're telling you that
5 this is the best that we can do, but this is where you get
6 to come in and be leaders. This is where you get to come
7 in and direct staff to come back to work with us.

8 The equity groups and the process is not
9 always -- we're not perfect, but we're here today with a
10 recommendation to ask that you direct staff to ensure that
11 the equity credits -- or not the equity credits -- the
12 historical credits are only given access to those that
13 work within delivering equity for our communities. That's
14 not a mandate. The equity groups that are here today
15 would support that and we ask you for your leadership.

16 Thank you.

17 (Applause.)

18 BOARD CLERK ESTABROOK: Thank you.

19 Ruben Aronin.

20 RUBEN ARONIN: Good afternoon, Chair and Board
21 members, and staff. I want to thank you all for your
22 dedication to this hopefully final Clean Cars Regulation.
23 And while I'm proud to help coordinate some of the diverse
24 advocates representing millions of Californians, who are
25 urging you to adopt a rule that accelerate ZEV sales

1 requirements and includes equity provisions that will
2 truly deliver cars to the communities impacted most by
3 climate and air pollution, today I'm speaking to you with
4 my other hat as director of the California Business
5 Alliance for a Clean Economy, a statewide network of
6 nearly 1,000 small and mainstream businesses who support
7 aggressive action on climate and pollution reduction to
8 drive our economy forward.

9 I'm not sure CARB imagined that our -- that
10 electric cars would be the number one export of our State
11 today or maybe you all did. But it's exciting that
12 California's Clean Car Regulations, meant to improve air
13 quality, are also driving tremendous direct and indirect
14 economic benefits.

15 Business associations like mine are concerned
16 that if we don't increase the ZEV sales requirements from
17 the current proposal, not only will we not meet our
18 critical climate and clean air objectives, but we could
19 risk further ceding the jobs and economic growth that's
20 accelerating the ZEV economy will create. Studies show
21 a stronger rule would result in upwards of 350,000 new
22 jobs, good paying jobs.

23 Before the pandemic, the state electric vehicle industry
24 employment was over 275,000 and growing almost twice as
25 fast as jobs in general. And these are good jobs, paying

1 an average of 90,000 a year, well above the average across
2 all industries.

3 As businesses like consumers face increasing pain
4 at the pump cutting into profits and payroll. And as we
5 have long wait lists here in California for ZEVs and
6 elsewhere, while sales in Europe already hover at 30
7 percent, I encourage you to continue to be bolder and
8 direct staff to strengthen the rule to at least achieve 75
9 percent new ZEV sales by 2030 and improve the equity
10 programs to ensure we meet some of the needs of
11 California's neediest pollution-burdened communities.

12 Thank you.

13 (Applause.)

14 BOARD CLERK ESTABROOK: Thank you.

15 Heidi Harmon.

16 HEIDI HARMON: Thank you so much. I'm the former
17 Mayor of San Luis Obispo, long-time climate champion, and
18 now working with Let's Green California.

19 But before I mayor, I was a singled mother and a
20 made. And reliable transportation was critical to raising
21 my kids and doing my job. My family was at the mercy of
22 gas prices and fear of an unexpected car breakdown. And
23 if you're living on the poverty line, this can ruin your
24 life.

25 And I'm grateful to be free of those worries now

1 as I have ditched my gas powered station wagon and
2 embraced my Nissan Leaf. And it was California State
3 incentives and policies that built a bridge out of
4 fragility and into a vehicle that I could count on.
5 California must set stronger electric vehicle sales
6 targets with mandatory equity Provisions to provide
7 security to more families, especially those living in hard
8 hit communities.

9 As the Mayor of SLO, I led my city to adopt the
10 most ambitious carbon neutrality goal of any city in the
11 United States at that time. And I was proud of that, but
12 we can't get there alone. Local communities need the
13 steadfast support and the bold leadership of the State to
14 partner on the defining issue of our time.

15 And I'm here today representing many other
16 electeds in the entire Democratic party who have endorsed
17 100 percent EV sales by 2030. And more importantly, I'm
18 here representing my children, Zoey and Emmitt, who
19 deserve a viable, livable planet.

20 It's well past time to keep asking ourselves
21 what's possible and what is reasonable? The time is now
22 to ask ourselves what is needed, what does this moment
23 require? And this moment requires that we give it our all
24 and that is 100 percent by 2030.

25 Europe, China, leading the way on EV adoption,

1 Washington State. Washington State. If Washington State
2 can d It, California can do it. Denmark, Iceland, India,
3 Ireland, Israel, the Netherlands, and Sweden, all 100
4 percent EVs by 2030. If they can do it, California can do
5 it.

6 It's time to stop asking what is possible and
7 instead do what is needed to make the impossible the
8 inevitable.

9 Thank you.

10 (Applause.)

11 BOARD CLERK ESTABROOK: Thank you.

12 Tony Shain.

13 TONY SHAIN: Hello. My name is Tony Shain and
14 I'm with Extinction Rebellion, San Francisco Bay Area.

15 And I just want to comment on the fact that this
16 is an extremely urgent situation. And based on the staff
17 report, I feel like there's a lack of urgency. And it's
18 really critical that we embrace 100 percent by 2030. As
19 many have shared and as many of you know, there are
20 countless reasons why we should try and buffer the climate
21 crisis.

22 So to start, I grew up in Bayview-Hunters Point
23 in San Francisco. And most of the people that I grew up
24 with no longer live in San Francisco, and instead they now
25 commute to the Bay Area from Sacramento, Stockton, Tracy,

1 et cetera. These are frontline workers who have been
2 pushed out of their communities and forced to move from
3 one fenceline community to the next. And now, they're
4 commuting ridiculous distances to their workplaces and
5 schools.

6 Many cannot afford a Z -- a ZEV, but they're
7 putting in more mileage than those that can afford them.
8 And we all know that wealthier people can afford ZEVs more
9 than people who don't have the means. So I wonder how
10 these current rules guarantee that these commuters and
11 communities most affected by climate change over the past
12 many decades are going to be able to contribute to
13 reducing local and global emissions.

14 The Board really doesn't need to reward
15 automobile companies, manufacturers that have purposely
16 dragged their feet to adopt cleaner technology. We must
17 require that manufacturers engage in environmental justice
18 measures in the rule outside of the flawed credit system.

19 Don't make it voluntary, rather increase
20 penalties for manufacturers that continue to sell
21 mega-polluting vehicles. The Board should do everything
22 it can to mandate that we subsidize clean vehicles for
23 these EJ communities.

24 Thank you.

25 (Applause.)

1 BOARD CLERK ESTABROOK: Thank you.

2 Next will be David Reichmuth and then after
3 David, we're going to go back to Zoom.

4 DR. DAVID REICHMUTH: Chair Randolph and members
5 of the Board. My name is David Reichmuth and I am a
6 Senior Engineer at the Union of Concerned Scientists. On
7 behalf of our over 500,000 supporters, we urge the Board
8 to adopt strong Advanced Clean Cars II standards.

9 The ACC II standards are one of the most
10 important air and climate pollution regulations to come
11 before this Board. And the rules are the culmination of
12 decades of ARB action on clean cars and zero-emission
13 vehicles.

14 UCS thanks the members of the Board and ARB staff
15 for their work on ACC II. UCS strongly supports the
16 proposed LEV emission standards. We also support the
17 proposed ZEV standards. However, we urge the Board to
18 consider two areas for improvement. First, a higher
19 target of 75 percent sales by 2030 is feasible and needed
20 to reduce emissions as quickly as possible. The
21 feasibility of the change is supported by the analysis of
22 vehicle redesign schedules in the Initial Statement of
23 Reasons.

24 Secondly, we ask the Board to evaluate options to
25 strengthen the proposed equity provisions in order to

1 provide greater assurance that the vehicle manufacturers
2 will utilize these provisions. I also urge the Board to
3 reject the proposed 15-day change provision that
4 eliminates the annual cap on the use of ACC I ZEV credits.
5 This change from an annual to a cumulative cap with no
6 restrictions will allow manufacturers to effectively delay
7 compliance with the ZEV regulations.

8 This change would mean an automaker could avoid
9 making a single ZEV in model year 2026 if they chose to
10 comply with ACC I credits or an automaker could cut the
11 requirement in half for the first two years of the rule.
12 This is no longer flexibility. It's a way for lagging
13 automakers to intentionally delay compliance.

14 This high level of uncertainty in actual ZEV
15 sales will slow the transition to ZEV and delay
16 environmental benefits. We strongly urge the Board to
17 reject the elimination of the annual cap on ACC credit
18 use.

19 Thank you.

20 (Applause.)

21 BOARD CLERK ESTABROOK: Thank you.

22 And I apologize. There's one more name on this
23 list, Meredith Alexander.

24 MEREDITH ALEXANDER: I get here as quickly as I
25 could. Good afternoon, Chair Randolph and Board members.

1 Meredith Alexander here today on behalf EV 100, a global
2 initiative of the Climate Group with 122 member businesses
3 that are committed to electrifying two million fleet
4 vehicles in the U.S. by 2030 and installing over 700 new
5 charging locations at their facilities.

6 First, we want to express our overall support for
7 the ACC II rule, along with our appreciation for your
8 continued leadership in cementing California's position as
9 a climate leader. We do believe that the regulation could
10 be strengthened by increasing the ZEV requirements for the
11 2026 and 2030 model years. We're asking you to increase
12 the 2026 requirement to 45 percent and 2030 to at least 75
13 percent. We think that this is both necessary and
14 achievable.

15 In quarter one of 2022, as we've heard from
16 others, ZEVs made up over 16 percent of new light-duty
17 sales, which is a doubling in less than two years. We
18 think this indicates that we would be able to double again
19 to 32 percent by 2024 without regulatory intervention. So
20 we're asking CARB to follow its own precedent by setting
21 more ambitious targets than businesses-as-usual.

22 Additionally, we have more tools and more federal
23 support to build an extensive and equitable nationwide
24 charging network than we've ever had before. As we heard
25 today, California is no longer alone in leading this

1 revolution. Our members are stepping up on workplace
2 charging, and California is going to get an additional
3 \$400 million over five years from the NEVI program through
4 the federal government, further enabling ubiquitous
5 charging in our state and in the other 177 states.

6 Our EV 100 member companies operate across the
7 U.S. and we've been meaningfully engaging with the 17
8 existing 177 states and others that are waiting to see the
9 outcome of this rulemaking to ensure that you and others
10 are ready to adopt ACC II regulations unpacked.

11 Thank you so much and we look forward to
12 continuing to support a fully electrify -- electrified
13 future.

14 Thank you.

15 (Applause.)

16 BOARD CLERK GARCIA: Thank you.

17 Okay. We're going to pick back up with our Zoom
18 commenters. The next five commenters will be Neil
19 Koehler, Laurel Moorhead, Kevin Abernathy, Matt Wait and
20 Kathy Bergren.

21 Neil, I have activated your microphone. You can
22 unmute and begin.

23 Neil, are you there?

24 Neil Koehler?

25 Okay. Let's try Laurel.

1 NEIL KOEHLER: No, I'll --

2 BOARD CLERK GARCIA: Okay. Neil, can you try
3 that again?

4 NEIL KOEHLER: Can you hear me now?

5 BOARD CLERK GARCIA: Yes, I can.

6 NEIL KOEHLER: Very good. Good afternoon, Chair
7 Randolph and members of the Board. Thank you very much.

8 I am Neil Koehler representing the Renewable
9 Fuels Association. The RFA is the leading national trade
10 association representing the ethanol industry, including
11 California ethanol producers. We fully support the
12 California goal to achieve carbon neutrality by 2045. We
13 also support the intent of the ACC II Regulation, although
14 we believe it doesn't go far enough and needs to be
15 strengthened, particularly in addressing near-term
16 opportunities for renewable liquid fuels to further reduce
17 GHG and criteria pollutant emissions.

18 Liquid fuels are here for decades to come, and it
19 is critical to decarbonize these fuels as soon as
20 possible, if California is to achieve its carbon
21 neutrality goals.

22 Ethanol today reduces GHG emissions by 50 percent
23 compared to gasoline. And RFA members have committed to
24 net zero ethanol production by 2050, with many members
25 project to achieve this well before.

1 Ethanol also reduces criteria pollutants. We
2 propose that the ACC II regulations be amended to add a
3 component that all new ICE powered car sales from 2026
4 forward be flex fueled capable to ensure that the large
5 number of ICE engines remaining on the road can be powered
6 by low to zero carbon renewable fuels that are as clean as
7 possible. Battery electric vehicles on a -- that are --
8 that can be as clean as battery electric vehicles on a
9 full life-cycle basis and at a significantly lower cost.

10 Affordability and optionality are key if
11 California is to achieve its goals. E85 currently sales
12 for over \$2 a gallon less than gasoline, and flex fueled
13 vehicles cost significantly less than EVs. A flex fuel
14 requirement for ICE engines added to the ACC II Regulation
15 represents a strong and positive equity opportunity for
16 the program, while supporting aggressive electrification.

17 Thank you.

18 BOARD CLERK GARCIA: Thank you.

19 Laurel, I have activated your microphone. Please
20 unmute and begin.

21 LAUREL MOORHEAD: Hi. Can you hear me?

22 BOARD CLERK GARCIA: Yes.

23 LAUREL MOORHEAD: Thank you. My name is Laurel
24 Moorhead and I am here on behalf Transfer Flow
25 Incorporated. I'd like to thank Anna Wong and the

1 Advanced Clean Cars II staff for your diligent work on
2 this project as well as CARB for the important work that
3 you do.

4 The position of Transfer Flow is that the
5 Advanced Clean Cars II regulation serves to stymie future
6 technological innovations. Setting greenhouse gas and
7 criteria emissions standards or even providing market
8 incentives for electric vehicles is one thing, but CARB
9 should not dictate to industry how to achieve those
10 zero-emission standards.

11 The Advanced Clean Cars II Regulation excludes
12 future zero-emission innovations by requiring all vehicles
13 to be electric regardless of what other zero-emission
14 technologies may be developed.

15 CARB is dictating that no matter how clean
16 alternative technologies are developed, because they do
17 not utilize CARB's preferred electric technology, no other
18 technologies would be allowed. Throughout the Advanced
19 Clean Cars II rulemaking process, CARB staff has
20 repeatedly said that hydrogen internal combustion
21 technologies will not be considered, because they still
22 create oxides of nitrogen or NOx. For CARB to say that
23 assumes a lot. Modern vehicles have multiple NOx control
24 technologies such as exhaust gas recirculation and
25 variable valve timing.

1 The Advanced Clean Cars II regulation disregards
2 future technological advancements. Using an internal
3 combustion hydrogen engine as an example, if combustion
4 temperatures were lower, so that NOx were not created or
5 perhaps an intake manifold that removed the nitrogen from
6 the intake before it was injected into the engine was
7 created. Regardless of how clean future technologies
8 might be developed, the Advanced Clean Cars Regulation
9 does not allow for any other technologies other than
10 electric vehicles.

11 The Advanced Clean Cars II Regulation should be
12 technology neutral and any zero-emissions technology that
13 may be developed should have a pathway to certification.
14 Thank you for allowing me the opportunity to comment.

15 BOARD CLERK GARCIA: Thank you.

16 Kevin, I have activated your microphone. Please
17 unmute and begin.

18 KEVIN ABERNATHY: Copy that.

19 BOARD CLERK GARCIA: Yes.

20 KEVIN ABERNATHY: Good afternoon, Chair Randolph,
21 members of the Board. Just a reality check this afternoon
22 from myself, Kevin Abernathy, a Milk Producers Council.

23 The California dairy industry continues to do our
24 part on both criteria and greenhouse gases in our effort
25 to improve public health and curb climate change in

1 looking for climate neutrality through practices and
2 technologies on California family-owned dairy farms.

3 I'm going to give you a real-world example.
4 Personally, I've been working with the San Joaquin Valley
5 Air Pollution Control District, Mack, Volvo, KCDF, Laird
6 on build specs to meet CARB's regulatory statutes,
7 especially when it comes to the Heavy-Duty Truck Rule. We
8 have the want, but the reality is the technology and
9 supply chain constraints are very daunting. And the price
10 quotes that we're receiving are unbelievably outrageous.

11 Real world example. These were provided to me on
12 6-2 of 2022. Prior to supply chain constraints, we were
13 looking at Class 8 trucks that were \$130,000. Today, if
14 you have a build slot, they're adding a \$59,000 premium
15 for that build slot, which takes it to 189,000. Of
16 course, we're making transportation fuels with renewable
17 Cal gas. We are looking at CNG. That truck, \$236,000.
18 We're also putting electrons on the grid with our fuel
19 cell projects, \$491,000, difference of 302,000 between
20 diesel and electric, diesel and CNG 47,000.

21 In both cases, this is my important part here,
22 take-home message, we do not have fueling infrastructure
23 in rural California to bring these to fruition. The
24 unintended consequences of the unflexible deadlines with
25 the one-size-fits-all approach would be catastrophic to

1 the mass majority of rural Californians in the Central
2 Valley folks in the communities that provide the food
3 security for our world.

4 Thank you.

5 BOARD CLERK GARCIA: Thank you.

6 Matt, I have activated your microphone. Please
7 unmute and begin.

8 MATT WAIT: Hi. Good afternoon. I'd like to
9 thank the CARB for leading the way on climate regulations
10 and I want to be clear that I fully support the plan. In
11 response to several automakers who have called in saying
12 that this would be extremely challenging for them, I would
13 say that it is on them for failing to anticipate the
14 market for electric vehicles. And many of those that have
15 spoke have not released any electric vehicles or even
16 hybrids for years, despite automakers -- other automakers
17 making significant investments.

18 They are essentially asking for leniency for
19 their failures. And my response is that California does
20 not owe them continued profitability. In fact, they owe
21 us a product that does not shorten the lifespan of our
22 civilization.

23 These complaints actually highlight the need for
24 aggressive rulemaking like this to spur companies to
25 finally act. We do live in a -- currently live in free

1 market capitalist society and the companies that are able
2 to innovate, to keep up with regulations, are the ones
3 that deserve to survive.

4 And to those automakers, I would say talk to
5 Tesla who is also on this call. Elon Musk said that he
6 would make his electric car plans free to everybody. And I
7 personally cannot think of any promises he's made recently
8 that he hasn't followed through on, not a single one.

9 With regard to supply chain issues, it's very
10 interesting, because there's never been a shortage of
11 iPhones, despite relying on many of the same materials.
12 Why can't these companies innovate like Apple?

13 My final comment is I live in Los Angeles, the
14 majority here are renters, the majority will not have
15 access to at-home charging. We need more from this plan
16 to support other forms of mobility. Indeed, we will
17 probably need to replace cars as the primary mode of
18 transport in Los Angeles.

19 Thank you.

20 BOARD CLERK GARCIA: Thank you.

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

23 KATHY BERGREN: Great. Thank you. I'm Kathy
24 Bergren, Director of Public Policy for National Corn
25 Growers Association. NCGA represents producers of

1 sustainable low carbon feedstock for low carbon fuel.
2 Farmers are shrinking the carbon intensity of biofuel, now
3 half that of gasoline. And farmers continued progress
4 with help achieve biofuels with net zero emissions. We
5 believe CARB can secure greater emission cuts by replacing
6 more gasoline with low carbon fuel in legacy and new
7 vehicles. We agree with CARB's proposals to cut emissions
8 from PHEVs. CARB can take emission reductions further by
9 also requiring PHEVs to be flex-fueled vehicles, or FFVs.

10 Under ACC II, PHEVs sold in 2026 and beyond will
11 still use gasoline. Why not add the option to use no
12 gasoline by requiring PHEVs to be flex fuel advancing
13 CARB's goals.

14 First, E85 cuts both CO2 and NOx in addition to
15 reducing PM and avoiding toxic aromatics to support
16 environmental justice outcomes. Today, California
17 consumers save 40 percent with E85, more than \$2 per
18 gallon, a significant benefit. Finally, adding flex fuel
19 technology to a vehicle does not tangibly alter the cost,
20 offering an affordable choice with GHG savings on par with
21 BEVs.

22 California is well-positioned to require all
23 PHEVs be FFVs, as well as require any combustion vehicles
24 sold from 2026 on to be an FFV. California drivers are
25 buying this alternative fuel at nearly 300 locations with

1 E85 use growing to 62 million gallons last year, a 55
2 percent increase.

3 We urge CARB not to constrain its vision of a
4 zero-emissions veh -- zero-emissions future, but instead
5 focus on setting targets and allowing more low and zero
6 carbon options that are added to EVs to maximize emission
7 reductions in the immediate and longer term, while
8 improving equity in transportation choices.

9 Thank you.

10 BOARD CLERK GARCIA: Thank you.

11 Okay. The next five remote commenters are Justin
12 Wilson, Michael Chiacos, Roman Partida-Lopez, John Shears,
13 and Thomas Becker.

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

16 (Dog barking.)

17 JUSTIN WILSON: Perfect timing with my pup.

18 Chair Randolph, members of the Board, thank you
19 very much for the opportunity for remote comments.
20 ChargePoint would like to thank the Board and the staff
21 for their work to develop the proposed Advanced Clean Cars
22 II regulations. We recognize California has been a global
23 leader developing, deploying, and supporting accelerated
24 adoptions of zero-emission vehicles.

25 We have a few recommended modifications to the

1 proposal to align any final regulations adopted by the
2 Board with best practices for electric vehicle charging to
3 reduce emissions from power generation, incorporate
4 renewable energy into transportation fueling, and ensure
5 the safe deployment of electric vehicle charging
6 equipment.

7 Our full comments have been submitted to the
8 docket.

9 The main thing we want to comment on is the
10 proposal to -- that all BEVs be equipped with a 20 foot
11 Underwriters Laboratory certified charging cord capable of
12 both Level 1 and Level 2 electric vehicle charging.

13 We agree with CARB that Level 2 charging at a
14 driver's place of residence is -- creates a superior
15 experience. However, due to increased electrical loads on
16 the grid, conflicts with the national electric --
17 electrical code, a wide range of home electrical
18 infrastructure capabilities, and a desire to integrate new
19 EV load with renewables and demand response programs,
20 ChargePoint's concerns that the proposed subsection
21 1962.3, if not modified, could do more harm than good.
22 Again, our complete comments are online in the docket
23 folder.

24 I would summarize our recommendations as CARB --
25 we recommend that CARB modify it's proposed requirement

1 for automakers to provide a charging cord capable of both
2 Level and Level 2 charging by remove -- removing the Level
3 2 requirement in 1962.3(b) and 1962.3(c). We also suggest
4 that CARB modify its proposed requirements by removing the
5 user selectable variable amperage requirements in
6 1962.3(c).

7 Thank you very much for the opportunity to
8 comment today.

9 BOARD CLERK GARCIA: Thank you.

10 Michael, I have activated your microphone, please
11 unmute and begin.

12 MICHAEL CHIACOS: Hi. I'm Michael Chiacos,
13 Director of Climate Policy at Community Environmental
14 Council. Founded in 1970, we are the largest
15 environmental non-profit on the central coast and we have
16 extensive ZEV experience includes -- including starting
17 the official ZEV readiness collaborative for the central
18 coast.

19 I have lived experience as an EV driver, driving
20 electric since 2012. And for the past four years, my
21 family of three has lived as one car 250 mile range BEV
22 family. We've even taken it on a 3,000 mile road trip to
23 Utah.

24 CEC supports staff modeling of getting to 100
25 percent ZEV sales by 2030 and requiring the equity

1 provisions. Many automakers have set 100 percent ZEV
2 goals by 2030 or 2035. Norway is at 92 percent right now.
3 They're selling more ZEVs in Europe and China than in the
4 U.S. Let's bring them here.

5 Equity provisions are needed, but no one has
6 mention the best way to get more affordable ZEVs on the
7 road is to increase the targets. This would mean millions
8 more used ZEVs for lower income Californians. Folks need
9 alternatives to \$6 gas. With Russian oil off the market,
10 we need to model ZEV adoption with \$6 gas and how that
11 would affect the \$81 billion in savings for consumers.

12 And what are the health and social cost benefits
13 of carbon? That should have been in the presentation.
14 CARB is supposed to protect the public interest, not
15 lagging automakers.

16 I've talked to many CARB Board members in the
17 last week and heard the argument that California will
18 likely exceed the targets, by need to be watered down to
19 attract other states. Simple fix, let more trading occur.
20 Direct staff to set higher interim targets and lead the
21 market, not trail it.

22 Thank you.

23 BOARD CLERK GARCIA: Thank you.

24 (Applause.)

25 BOARD CLERK GARCIA: Roman, I have activated your

1 microphone. Please unmute and begin.

2 ROMAN PARTIDA-LOPEZ: Thank you. Good afternoon,
3 Chair Randolph, Board members, staff. My name is Roman
4 Partida-Lopez. I'm with the Greenlining Institute.

5 I want to thank th staff for their work in
6 developing this draft regulation. I know it's no easy
7 task, given the many stakeholders involved. CARB has an
8 opportunity to pass a rule that will set aggressive
9 standards to help the State and others transition to
10 zero-emission cars and help improve our air quality
11 especially in frontline communities.

12 It has the opportunity and the responsibility to
13 ensure that frontline communities, or priority populations
14 as you all call them, see direct and meaningful benefits.
15 Throughout all of the speakers this morning and this
16 afternoon, and even in the ACC II website, a lot of
17 mention of equity and the commitment to prioritize
18 benefits to priority populations.

19 So my question to you all is what we have in
20 front of us the best possible rulemaking that will ensure
21 direct and meaningful benefits for priority populations?
22 What we have in front of us is shamefully inadequate,
23 particularly for low-income communities of color who bear
24 the burden -- who bear the burden of the worst pollution
25 and who stand the most to be affected. Greenlining more

1 than a year ago provided a set of equity principles for
2 this rulemaking to apply as it addressed equity, of which
3 none show up in what we have in front of us.

4 The EJ provisions included here in this draft
5 aren't mandatory, and you cannot expect those who have
6 been responsible for the overpollution of our communities
7 to voluntarily choose people over of profits.

8 We don't need more performative equity. What we
9 need is direct action that delivers equity outcomes. What
10 we need is a stronger EJ provision that will create
11 deliverables and help increase access and affordability
12 for priority populations. What we have in front us dances
13 around the edges, and not to say that the rule does
14 something about equity without significantly providing
15 meaningful benefits.

16 I should note that CARB should move away from
17 calling low-income and disadvantaged communities, priority
18 populations in their rulemakings, programs, and
19 investments are not putting the needs and priorities of
20 priority populations first. If CARB truly cares about
21 equity, it will stop prioritizing other states and what
22 automakers can or should do and prioritize our frontline
23 communities and make the necessary changes to ensure our
24 communities don't get left behind.

25 Thank you.

1 BOARD CLERK GARCIA: Thank you.

2 (Applause.)

3 BOARD CLERK GARCIA: John Shears, I have
4 activated your microphone. Please unmute and begin.

5 JOHN SHEARS: Great. So everyone can hear me?
6 Good afternoon, Chair Randolph and members of the Board
7 and staff. My name is John Shears. I'm with CEERT,
8 Center for Energy Efficiency and Renewable Technologies.

9 CEERT thanks the staff for their considerable and
10 their extensive work in developing the ACC II Rule. We
11 support the proposed updates to the LEV portion of the
12 rule, but consider the proposed ZEV sales target
13 requirements in the ISOR to be too conservative or, in
14 other words, too weak.

15 We ask that CARB strengthen the ACC II Rule by
16 increasing the sales target to at least 75 percent ZEV
17 sales by 2030 on the way to 100 percent ZEV sales by 2030,
18 while there are challenges that remain for clean
19 transportation to meet the needed air quality and climate
20 goals, including in the Section 177 states and Canada.
21 California should continue its bold and ambitious
22 leadership in a way that can lift up and further
23 accelerate the development of a growing North American ZEV
24 market.

25 As we've all been meeting here today, Canada and

1 California have just announced their new climate action
2 and nature protection partnership that includes reference
3 to work on clean transportation and ZEVs. CARB should
4 incorporate stronger equity requirements that do not
5 compromise but maintain the greatest overall stringency in
6 the ACC II compliance. CARB should also maintain robust
7 durability requirements for ZEVs to build broad and robust
8 consumer confidence in ZEV technology vehicles as
9 combustion vehicle replacements. This will also be
10 critical for resale whereas most Californians will likely
11 purchase their vehicles.

12 If California is to renew its role as world
13 leader in ZEVs, a position that has been lost to Europe
14 and China in recent years, CARB must be more ambitious in
15 its goals for ZEV sales requirements under the ACC II
16 rule. To that end, I note that yesterday, the European
17 parliament approved a proposal that all new passenger err
18 vehicles sold in Europe release zero GHG tailpipe
19 emissions -- I repeat, zero GHG tailpipe emissions by
20 2035.

21 As Vice Chair Berg noted earlier, with California
22 facing its continuing several air quality challenges and
23 the rapidly developing climate crisis, time is not on our
24 side. Please refer to our supplemental written comments
25 submitted to the clerk earlier this morning for references

1 that I've referred to in my oral comments. I thank --

2 BOARD CLERK GARCIA: Thank you.

3 JOHN SHEARS: I thank you for today's opportunity
4 to comment on the proposed Advanced Clean Cars II
5 regulations and thank you all for your -- your efforts.

6 BOARD CLERK GARCIA: Thank you.

7 Thomas Becker, I have un -- activated your
8 microphone. Please unmute and begin.

9 THOMAS BECKER: Thank you. Can you hear me?

10 BOARD CLERK GARCIA: Yes, we can.

11 THOMAS BECKER: Thank you. Staff -- your staff
12 can say whatever they want, because they're not under
13 oath. Renewable liquid fuels have reduced greenhouse gas
14 emissions at a much higher rate and a much higher level
15 than electric vehicles would ever achieve.

16 Your staff has engaged in an unlawful campaign to
17 illegally thwart the use of liquid renewable fuels as a
18 technology that can be used to reduce greenhouse gas
19 emissions. All responses to written comments to the ACC
20 regulation will be submitted to the U.S. Court of Appeals
21 for the D.C. Circuit.

22 All false or misleading responses by your staff
23 in response to comments will be pointed out to that court.
24 If staff continues to make false and misleading
25 statements, that will be shown to that court. If staff

1 tells the truth, then their EV scam would simply fall
2 apart.

3 Now, in comment or in response to a previous
4 person from Santa Barbara County, which is where I'm from,
5 who drove electric vehicles for the Santa Barbara MTD.
6 About 20 years ago, MTD proposed an electric vehicle
7 program called Electric Avenue, or something like that.
8 And what happened is management of MTD got caught bid
9 rigging that program. They -- they didn't tell anybody
10 that they had started an electric vehicle parts business,
11 and then wrote the specifications so only people buying
12 parts from them would be able to bid on that project.
13 That is indicative of Santa Barbara County and it's
14 indicative of the people in Sacramento, including you.

15 Thank you.

16 BOARD CLERK GARCIA: Thank you.

17 I'll turn it back to Katie for in-person
18 commenters.

19 BOARD CLERK ESTABROOK: Thank you.

20 All right. I'm now going to call from the names
21 that are on the screen starting with Enrique Velez. And
22 then I'll just ask maybe the next two or three to go ahead
23 and make their way down, so we can -- in the essence of
24 time. That would be great.

25 ENRIQUE VELEZ: Thank you. Good afternoon,

1 Honorable Chair and Board members. My name is Enrique
2 Velez and I represent the Latin Business Association. The
3 LDA has a long tradition of supporting environmental
4 stewardship and have sometimes stood alone as a business
5 organization.

6 However, these new regulations ACC II are simply
7 too much, too fast for minority-owned businesses to
8 shoulder. Between the Great Recession, then the pandemic,
9 and now record inflation, many of our members are
10 struggling to keep their doors open.

11 Our organization encourages this Board to find a
12 better balance between technology and affordability and
13 allow an even playing field. It's hard to compete in a
14 global market when California has rules no other state or
15 county are subjecting their businesses to adhere to.

16 This is -- this isn't just an academic debate,
17 it's the livelihood of thousands of Latino-owned
18 businesses and their employees. Please reject these
19 regulations today. I thank you for your time and God
20 bless you.

21 Thank you.

22 (Applause.)

23 BOARD CLERK GARCIA: Thank you.

24 Andrea Cao.

25 ANDREA CAO: Hello. Good afternoon, Chair

1 Randolph, members of the Board and staff. My name is
2 Andrea Cao. I'm the Public Policy Manager for the
3 California Asian Pacific Chamber of Commerce, which
4 represents over 600,000 plus Asian American and Pacific
5 Islander owned businesses in California. According to
6 your estimates, ACC II will cost California over 85,000
7 jobs and will reduce personal income by \$15 billion.
8 There are over 600,000 and growing AAPI owned businesses
9 in the state of California. And we believe ACC II creates
10 major inequities because of lack of affordability and
11 increased utility rates.

12 Our organization encourages this Board to find a
13 better balance between technology and affordability,
14 rather than just pushing mandates that takes the choice
15 away from Californians, and adds extra burdens on the
16 thousands of AAPI owned businesses that we represent.

17 This needs to be done in a realistic and
18 equitable way that takes into account the people in our
19 communities that will be heavily affected by this
20 transition.

21 Thank you for your time.

22 (Applause.)

23 BOARD CLERK ESTABROOK: Thank you.

24 Jo Ann Consigliers.

25 JO ANN CONSIGLIERS: Hello. My name is Jo Ann

1 Consigliers. I represent SB 1230, greencal.org, the
2 Romero Institute, and Circle of 100.

3 I'm here to respectfully call out California Air
4 Resources Board for failing us Californians by not
5 guarantying the delivery of 100 percent EVs by 2030. If
6 you were to deliver 100 percent EVs by 2030 to all
7 Californians, you would then bring relief from high gas
8 prices, from deadly air pollution, and give promise to our
9 young people.

10 I'm calling for a stronger more equitable ACC II.
11 As an aside, this morning when we were all here at 11:21
12 a.m., on my phone, a text a spare air alert was issued for
13 Friday, 6/10 in the Bay Area. It spoke of walking,
14 bicycling, limiting driving. So that's what we have to
15 do, 100 percent EVs by 2030.

16 Thank you.

17 (Applause.)

18 EILEEN TUTT: Good afternoon, Chair Randolph and
19 members of the Board. I just want to say you're doing
20 something right, because nobody seems happy.

21 (Laughter.)

22 EILEEN TUTT: But I -- I just want to say thank
23 you to Anna and Mike in particular. The staff has been
24 awesome. They put up with us for hours at a time. I'm
25 just going to say that we are also not entirely happy, but

1 we fully support this regulation before you and are just
2 pleased to say that the goal that staff is recommending
3 2035 by -- 100 percent by 2035 is extremely ambitious.
4 And I can say this having done this having done this for
5 30 years, in the last 12 years, the sales have increased
6 about 1 percent per year. We're now somewhere between 12
7 and 16 percent of the new vehicle market. We're talking
8 about a five to tenfold increase per year in sales of new
9 cars to reach its target. That is ambitious and will only
10 happen because of California's leadership on all of the
11 other complementary policies you have, including the
12 incentives in the Low Carbon Fuel Standard as well as
13 things like building standards and infrastructure, which,
14 by the way, you have little control over.

15 So we're very glad to see the whole state coming
16 together and supporting this regulation, and so glad to
17 see so many people from other agencies here today and
18 often testifying at your Board meetings.

19 I do want to say that while we support the
20 durability standard recommendations, we still believe that
21 adopting the UN standards ahead of the UN would be
22 leadership and would also keep prices for electric
23 vehicles within the range that we think most consumers can
24 afford. We do know that consumers are most concerned
25 about price when they consider this vehicle. So we would

1 like to see the durability standards that were recommended
2 by United Nations, adopted by CARB, but understand where
3 staff is and appreciate all the time they spent listening
4 to us.

5 Also, please read our letter, we are not
6 supportive of mandating Level 1 and a Level 2 charger with
7 every single vehicle. It's unnecessary and it does not
8 solve the problem of access to infrastructure. If you
9 can't access a plug, you can't use the convenience
10 charger. So thank you.

11 BOARD CLERK ESTABROOK: Thank you.

12 Megan Shumway.

13 MEGAN SHUMWAY: Hi. I'm Megan Shumway. I'm a
14 retired nurse and public health nurse. I now work with
15 several climate organizations in Sacramento, because I'm
16 deeply concerned about climate change and the ever
17 increasing air pollution that is the underlying cause.

18 Combustion engine emissions threaten the planet
19 and human health. I have had lifelong asthma that puts my
20 well-being at risk every day. I'm currently recovering
21 from pneumonia and I'm here today to ask you for the
22 strictest possible air quality regular -- regulations.

23 Although I appreciate your sweeping and extensive
24 efforts, we must end our addiction to fossil fuels. We
25 have little time left to prevent mass extinctions that may

1 well include human extinction.

2 All your goals and projections must happen before
3 2030. In addition, government schools and rental vehicle
4 fleets must be all ZEVs sooner than later. These vehicle
5 tools are often some of the first to enter the secondary
6 market and make them available for the lower wage working
7 class who have normally purchased used cars. Not everyone
8 can afford to purchase a new zero-emission vehicle, even
9 with a rebate. Please find a way to put charging stations
10 and/or hydrogen in gas station making them fueling
11 stations for all.

12 These are environmental justice issues that must
13 be addressed if we are to get to carbon zero by 2030. Any
14 projections beyond 2030 is way too late. There is even
15 some evidence that 2030 may be too late to prevent runaway
16 climate change. Please act with urgency.

17 Thank you.

18 (Applause.)

19 BOARD CLERK ESTABROOK: Scott Hochberg.

20 SCOTT HOCHBERG: Good afternoon. My name is
21 Scott Hochberg and I'm a transportation attorney with the
22 Center for Biological Diversity.

23 It's rare that a single rule will have such a
24 large impact on the future of our state, reaching
25 everything from the quality of the air we breathe to

1 California's important climate goals. And yet, despite
2 its massive importance, ACC II is failing on its
3 stringency targets. These targets were developed from
4 what manufacturers have declared they can achieve, but
5 that is not CARB's mandate.

6 CARB is instead required to set targets that are
7 protective of the health and environment of all
8 Californians. Compared with the 2030 goal, the current
9 2035 target for reaching 100 percent ZEV sales allows an
10 additional two million gas powered cars to be sold, which
11 will be polluting on the road through 2050 or later. And
12 we know that the rule won't even achieve the benefits it
13 claims on paper due to the millions of excess credits in
14 existence not to mention the many more that are being
15 proposed this week.

16 CARB seems to push up its target and reach 100
17 percent ZEV sales by 2030. And make no mistake, this rule
18 also drops the ball on equity. Automakers may not even
19 use the small incentives in this rule, given their
20 overflowing credit banks and the lofty EV targets they
21 have set. And even if they do participate, that will
22 reduce the number of EVs they would otherwise be required
23 to make foregoing crucial emission savings. This is an
24 unacceptable tradeoff between environmental and equity
25 goals.

1 The rule, as it's written, seems doomed to repeat
2 the mistakes of the past in not doing enough to make sure
3 that vulnerable communities can share in the benefits of
4 the transition to EVs. It is imperative that CARB get
5 this rule right, even if that takes extra time now. We
6 should go back to the drawing board to fix this rule, and
7 we call upon you the Board members to not adjourn this
8 meeting today, until you request the necessary changes to
9 strengthen it.

10 Thank you.

11 (Applause.)

12 BOARD CLERK ESTABROOK: Thank you.

13 Emma Yip.

14 EMMA YIP: Hello. My name is Emma Yip. And I'm
15 a third year law student at UC Davis or just about to be.
16 I'm studying environmental law and working this summer for
17 the Center for Biological Diversity.

18 And like many Californians, I live about an hour
19 away from where I go to school and work. I can't afford
20 to live where I work or go to school and California is my
21 home. It's polluted, it's burning, it's expensive, and I
22 love it. I don't why. I just do.

23 Today, we got to hear from vehicle manufacturing
24 representatives. And I have to say I think they're going
25 to be okay. I know this, because I'm currently trying to

1 purchase a car from them. And this is going to be my
2 first ever new car and I hope it's going to be electric.
3 And the only reason I can possibly buy an electric car
4 right now is because I got an income based grant. And the
5 grant is going to give me \$5,000 off of the purchase price
6 of this new car. And I have one month to use this grant
7 before it expires. And so far every single car dealership
8 has turned me away saying that they will not accept my
9 grant, because they have enough people that are ready to
10 pay in all cash. So I think the car people going to be
11 fine

12 CARB needs to make ZEVs affordable and actually
13 accessible to people like me. It needs to eliminate the
14 loopholes and the excess credits in this proposed rule,
15 and instead find a path towards 100 percent ZEVs by 2030.
16 This rule has the potential to be technology forcing and
17 doesn't need to settle for the targets that automakers
18 have already said they can meet. And I hope CARB will
19 ensure that the automotive industry is not dictating the
20 terms as ACC II.

21 Again, I think the car industry is going to be
22 fine. Let's make sure California is going to be fine too.

23 Thank you.

24 (Applause.)

25 BOARD CLERK ESTABROOK: John Hoffman.

1 JOHN HOFFMAN: Thank you much, Board. I
2 appreciate your time. I think it would be difficult for
3 anyone in this room to find anyone who doesn't want clean
4 air. Regardless of your position, we all want clean air.
5 Personally, I love Teslas. I've followed them for many
6 years. I'd love to have one, but I've been here since
7 nine o'clock and I've heard conversations on both sides,
8 but not until 2:08 on one of our Zoom calls did I hear
9 anybody mention anything regarding our power grid.

10 I would like to know personally what information
11 you have worked with whether Southern California Edison or
12 PG&E to talk about the contingencies should we have any
13 power shortages between now and then. I would think it
14 would be great to have electric vehicles by then, but what
15 if we don't have the power to maintain it?

16 We're going to have shortages for electricity for
17 air conditioning for elderly, so elderly are going to be
18 in their homes and cooking. They won't be able to power
19 their medical equipment. So they won't be able to power
20 these because CARB is getting rid of the home power
21 generators. So what are we going to do for the elderly
22 when they can't keep their homes cool and can't keep their
23 medical devices powered?

24 Any condition on that? I've read through the
25 document. I don't see anything regarding contingencies,

1 should we have shortages and not be able to charge all the
2 cars. So, yes, I am in favor of clean air. I'm in favor
3 of having electrical vehicles, but we must have
4 contingencies written in in case we cannot power them.

5 Please consider that. Thank you for your time.

6 (Applause.)

7 BOARD CLERK ESTABROOK: Thank you.

8 Teresa Cooke.

9 TERESA COOKE: Good afternoon. Thank you Teresa
10 Cooke on behalf of the California Hydrogen Coalition. I
11 want to start off by offering that we really appreciate
12 the recognition that goal setting is far easier than
13 tackling consume adoption. And to that end, our members
14 are investing billions in long range, zero-emission, fuel
15 cell electric vehicles that operate nearly identically to
16 gasoline vehicles.

17 And today, they are serving our EV drivers living
18 in multi-family dwellings, those without access at
19 workplace -- or those without access to workplace charging
20 and our super commuters, of which there are about 13
21 percent throughout the state.

22 I will also note that the ARB reports that 92
23 percent of the hydrogen that is dispensed at this point in
24 time is 92 percent renewable. And so we look forward to
25 partnering with California in our efforts to reach these

1 goals, and to that end are very pleased to support the
2 staff recommendation today.

3 Thank you.

4 BOARD CLERK ESTABROOK: Thank you.

5 James McFadden.

6 JAMES MCFADDEN: Good afternoon, Chair Randolph
7 and members of the Board. My name is Jim McFadden. I
8 represent letsgreencal.org and the Romero Institute. And
9 I'm speaking out on behalf of a stronger equitable AAC
10 program. The proposed standard, as written, is far too
11 weak to make a difference in hard hit communities and will
12 not deliver the pollution cuts we need.

13 With gasoline at \$7 a gallon, too many
14 Californians are having to choose between fuel and the
15 essentials that they need to live a normal decent life.
16 Our communities are still breathing the most polluted air
17 in the country and it's your responsibility to do what's
18 right to relieve the suffering caused by these realities.

19 We need you to prioritize the health and
20 well-being of all Californians who need affordable,
21 pollution-free cars as quickly as possible. We urge you
22 to strengthen the program, so that it meets our climate
23 and clean air crises, creates good jobs, and ensures that
24 priority communities reap the benefits of pollution-free
25 and gas-free cars, by achieving at least 100 percent EV

1 sales by 2030, and including equity provisions that will
2 actually make a difference.

3 That's why I'm calling on you, our Air Resources
4 Board, to do your duty and protect us from the devastating
5 impact of expensive and polluting cars and trucks.

6 As California goes, so goes the nation, and the
7 world.

8 Thank you.

9 (Applause.)

10 BOARD CLERK ESTABROOK: Thank you.

11 All right. We'll turn it back over to Zoom now.

12 BOARD CLERK GARCIA: Okay. The next few remote
13 commenters will be Julie Beer, Mariela Ruacho, William
14 Barrett, and a phone number ending in *329.

15 Julie, I have activated your microphone, please
16 unmute and begin.

17 JULIE BEER: Hello. My name is Julie Beer. I'm
18 a private citizen from Palo Alto. Thank you for the
19 opportunity to speak at this hearing. I thank the Air
20 Resources Board for your ambitious goal of 100 percent
21 zero-emission light-duty vehicle sales by 2035. But if
22 you could do it by 2030, as many people have suggested, I
23 say hooray for that.

24 I worry about climate change a lot. I recently
25 saw this amazing film that took place in the tiny village

1 of Newtok, Alaska. The houses are sinking into the
2 ground, because of the permafrost melting. Some of them
3 have collapsed into the sea, because they used to be about
4 I think it was a quarter mile from the sea and now the sea
5 is rising.

6 I also saw and read an article about some village
7 in Senegal -- I'm sorry. I don't remember the name. It's
8 a world heritage site. It has experienced flooding and
9 destruction of houses. They've tried to -- they've
10 created a new temporary village two hours by bus inland.
11 Nobody there has a car and the fisherman just won't use
12 it. You know, they're just not going to move, because
13 they don't have the time to do that and be out and fish.

14 We need as many electrical vehicle sales as
15 possible. I worry a lot about the people who suffer
16 asthma in our area along our clogged freeways. And I want
17 to -- I want to make sure that the lower income people
18 living near these clogged freeways are protected from
19 pollutants.

20 We've been -- California has been a long-time
21 leader in tackling greenhouse gas emissions and I hope we
22 continue to be so.

23 Thank you very much.

24 (Applause.)

25 BOARD CLERK GARCIA: Thank you.

1 Mariela, I've activated your microphone. Please
2 unmute and begin.

3 MARIELA RUACHO: Thank you. Hi. My name is
4 Mariela Ruacho. I'm with the American Lung Association.
5 I'm here on behalf of 21 health and medical organizations,
6 which include Public Health Institute and the California
7 Thoracic Society to name a few, and another 40 health
8 professionals who joined our letter calling for a stronger
9 Advanced Clean Cars II rule.

10 You also received a letter from the Lung
11 Association staff across the country in looking for CARB
12 to set the strongest possible standard. Californians
13 breathe the most unhealthy air in the nation. In fact,
14 the Lung Association's State of the Air Report found that
15 California is home to six of the 10 most ozone-polluted
16 cities in the U.S. and seven of the 10 most impacted by
17 particle pollution.

18 This is why our letter asked and it is so
19 important for CARB to set a stronger and more equitable
20 focused rule. We need to accelerate our transition to
21 non-combustion ZEVs by setting a 75 percent sale
22 requirement by 2030 and a -- on the critical path to 100
23 percent by 2035.

24 In addition, we urge CARB to ensure that
25 vulnerable communities who are most impacted by

1 transportation pollution can experience health input --
2 health benefits quicker.

3 As proposed, the rule will generate significant
4 health benefits, but have the potential to save lives and
5 provide even more benefits if strengthened. We cannot
6 afford to the leave health benefits on the table. Our
7 report *Zeroing in on Healthy Air* found that California
8 could gain \$169 billion in health benefits and save 15,300
9 lives from 100 percent ZEV transition to both -- for both
10 cars and trucks.

11 The rule is just one step closer to a healthier
12 and non-combustion future. Also, we appreciate the work
13 staff has done on low-emission vehicle standards and
14 support their work to limit credits and other
15 flexibilities weaken the rule. We hope to -- the Board
16 considers our ask.

17 Thank you to the Board and staff for all the work
18 on this rule and we hope to continue conversations.

19 Thank you.

20 BOARD CLERK GARCIA: Thank you.

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

23 WILL BARRETT: Hi. Thank you. This is Will
24 Barrett. I'm the National Senior Director for Clean Air
25 Advocacy with the American Lung Association as well.

1 The Lung Association strongly supports the 100
2 percent sales target proposed in this rule and CARB's
3 zero-emission non-combustion rules generally across the
4 board as critical to meeting our clean air standards and
5 protecting public health.

6 As Mariela noted, we're in strong support of many
7 provisions in the proposals and want to continue to work
8 with the staff on avenues to strengthen the health and
9 equity outcomes of the rule.

10 And I wanted to point out that the Health
11 Benefits weren't directly noted in the staff presentation
12 this morning, which I thought was very well done. I think
13 -- so I wanted to highlight the -- you know, what's on the
14 table. It's 1,272 projected lives saved under the staff
15 proposal. The staff's analysis also notes that many more
16 lives can be saved with a more stringent rule. Again, you
17 just heard from Mariela on our staff about the many
18 others -- as well as from many others calling for a
19 stronger ramp to 100 percent and we would expect the
20 health benefits to grow even further with a 75 percent
21 standard at 2030.

22 We are deeply concerned that adding flexibilities
23 included in the proposed 15 day changes will simply eat
24 away at the benefits of the final rule. That's those
25 1,272 lives saved. We don't want to see that reduced

1 beyond where they are now and we want to see those
2 benefits grow.

3 So whether bringing travel back, allowing the use
4 of historical credits on a cumulative basis, walking back
5 the durability and warranty requirements, these are all
6 areas we're deeply concerned about of the overall impact
7 on the health benefits of the rule. We also want to make
8 sure that there won't be any double counting of EV credits
9 between the ACC rule and the Advanced Clean Truck
10 Programs.

11 So just in closing, we want to ask that the Board
12 and staff ensure that these proposals don't reduce the
13 overall number of ZEVs, health benefits, or emission
14 reductions expected in the early years of the program or
15 overall. And then we also encourage the Board to continue
16 to work towards greater certainty on the equity provisions
17 and analyze the health benefits for a 75 percent standard
18 in 2030.

19 Thank you again for all of your help in moving
20 this forward. We look forward to working with you. Thank
21 you.

22 BOARD CLERK GARCIA: Thank you.

23 And a phone number ending 329. Please state your
24 name for the record and you can begin.

25 JIM KENNEDY: High. This is Jim Kennedy. I'm

1 the Executive Director of the Health Air Alliance. And we
2 are 100 percent in support of the 100 percent ZEV adoption
3 by 2035.

4 And a lot of modeling went into this and we
5 understand the complications of things that might not yet
6 be available for information about the factors that are
7 going to go into the different goals that are met at each
8 milestone. So I think what was mentioned by a CARB Board
9 member about building in flexibility between the mandates
10 and the incentives. I understand that incentives might
11 need to be the start, but mandates can be ratcheted in.
12 If somehow that could be modeled in in a legal framework,
13 that would be better, if that gives CARB the ability to,
14 as the program develops, implement more and more ways to
15 get zero emission in all-of-the-above type of technologies
16 in play, so that we have the health benefits sooner for
17 the people in California.

18 The other little points I want to bring up
19 that -- you know, there was a lot of other things were
20 covered. But the incentives to the manufacturers, is that
21 through the dealerships? Because direct sales is now the
22 new way that some of these upstart electric vehicle
23 manufacturers are trying to get to the public. And so
24 that's a different issue. And I don't want CARB to have
25 to limit that type of innovation in the marketplace to get

1 more cars to more people quicker and at a cheaper rate.
2 And so maybe the incentive structure needs to be locked at
3 to see that it's not baking in a dealership model.

4 And I understand the model had to deal with the
5 current type of fuels used by internal combustion engine
6 vehicles. As we see, and CARB mentioned many times, that
7 we will have ICE cars for decades, even with this adoption
8 of the Advanced Clean Cars. So we need to get moving
9 quicker on Low Carbon Fuel Standard and getting --

10 BOARD CLERK GARCIA: Thank you.

11 JIM KENNEDY: -- more consumer options for
12 alternative fuels.

13 BOARD CLERK GARCIA: That concludes your time.

14 JIM KENNEDY: Thank you.

15 BOARD CLERK GARCIA: Thanks.

16 I'll turn it back over to Katie for in-person
17 commenters.

18 BOARD CLERK ESTABROOK: Thank you.

19 Next, we will have Jack Lucero Fleck.

20 JACK LUCERO FLECK: Hello, Board members. Jack
21 Fleck at 350 East Bay. I'm really impressed that you're
22 all hanging in here this afternoon. It's been a long day
23 and it shows that you really do take this public testimony
24 as an important part of your decision-making process, so I
25 do appreciate that.

1 To get right to the point, other speakers have
2 said California is not on target to reach its SB 32 goal
3 of 40 percent greenhouse gas reductions by 2030. And you
4 don't have to take our word for it. Look at the
5 presentation this morning. There was a graph that showed
6 50 percent by 2040 for light-duty vehicle emission
7 reductions. Okay. Well, go back up on the graph, 2030,
8 you're at about 25 percent. Now, 25 percent is not 40
9 percent. We're not going to make -- and just to point out
10 that light-duty vehicles are the low-hanging fruit. This
11 is easy. Come on. EVs are so popular. They're so
12 affordable. They save people money. We ought to be able
13 to do this easily. Come on. Let's accelerate the -- as
14 everybody else has been saying, let's accelerate the
15 adoption.

16 I really want to thank Davina Hurt for her
17 question this morning about what about the Mobile Source
18 Strategy? Come on, that -- that called for eight million
19 EVs. Suddenly that number has disappeared and the Scoping
20 Plan is talking like five million. Come on, let's add
21 those three million EVs and then we get really close to
22 what everybody is demanding here, accelerate the adoption
23 rate, go to 20 -- 100 percent by 2030. I don't think that
24 question was really answered, but thank you for asking it
25 at least.

1 One of the other main points that people are
2 using to oppose -- or to say that we can't do this is
3 looking at other states. Now, 350 has chapters all over
4 the country. I reached out to some people from Yakima,
5 Washington, Boulder, Colorado, they're all appalled at the
6 idea that their state is being held up as an example of
7 why can't -- California shouldn't go so fast, because
8 these other states can't keep up. That's not what they
9 want you to do. They want you to lead. They want
10 California to really adopt this. So let's not use that as
11 an excuse.

12 Thanks a lot.

13 (Applause.)

14 BOARD CLERK ESTABROOK: Thank you.

15 Ellen McClure.

16 ELLEN McCLURE: Good afternoon. My name is Ellen
17 McClure. I'm with 350 Bay Area and I'm a Berkeley
18 resident. I'm speaking to you today to urge you to adopt
19 100 percent EVs by 2030 with mandatory equity provisions.
20 I'm supporting this because it would make a meaningful
21 dent in greenhouse gas emissions that are driving the
22 climate crisis and we need to do more to ensure equitable
23 access to EVs.

24 We're currently in the midst of a climate crisis
25 and we're not doing enough to avoid catastrophic effects.

1 Recent IPCC reports tell us that we need to act fast, yet
2 we're not doing enough to make the changes that we need.

3 In California, we're dealing with wildfires and
4 with excessive heat events that are predicted to
5 intensify. We also know that in California, we have some
6 of the worst air quality in the country. And further, we
7 know that the burden of air pollution and effects of
8 climate change are not shared equally, making this an
9 environmental justice issue.

10 The difference between 100 percent EVs and 2030
11 versus 2035 is estimated at 256 million tons of CO2.
12 Keeping that much out of the atmosphere would make a
13 meaningful impact on climate change action. We can't
14 wait. We owe it to future generations to take bold action
15 now to address the climate crisis and have clean air for
16 Californians, which is why I support 100 percent EVs by
17 2030 with mandatory equity provisions.

18 Thank you.

19 (Applause.)

20 BOARD CLERK ESTABROOK: Marcus Gomez.

21 MARCUS GOMEZ: Good afternoon, Board. Thanks for
22 this opportunity to speak to you. My name is Marcus
23 Gomez -- (clearing throat) -- excuse me -- and I'm a small
24 business owner. My company is California Clothing
25 Recyclers. I export used clothing.

1 I have three trucks and two forklifts. The State
2 has already asked me to replace one of my trucks. It cost
3 plea \$55,000 to replace the truck that meets the emission
4 standards. I've already put \$20,000 into that truck just
5 in repairs alone, okay.

6 I've been trying to find -- I've been -- want to
7 get away from diesel and go to gas, but right now you
8 can't even find a gas truck, okay?

9 One of the -- one of the trucks is -- it's a --
10 they're box trucks, one is diesel and one is -- and two of
11 them are gas, and then the two forklifts are propane. To
12 replace all of those, it would cost me anywhere from 250
13 to 300 thousand dollars to go all electric.

14 I would be more than happy to go all electric, if
15 the State wanted to help me pay for all of that. But to
16 do that, you know, pay for that kind, it might just take
17 me right of out of business. If I could move out of
18 California and my business wasn't, you know, solely in
19 here, I would probably move out of California.

20 You keep asking us to do these things and you
21 keep reaching into our pockets. These people here I
22 respect them. I know we need climate change. I grew up
23 here in Sacramento. I know that our winters are getting
24 shorter, but the cost is -- is it -- it's tremendous.
25 These people here that come up here and they testify, they

1 may buy one vehicle. They may buy one EV vehicle. But
2 I've got to buy five not to mention my personal vehicles.

3 So please this AB 5 is too extreme. I think you
4 need -- need to rethink it and think of something else,
5 because it just -- I don't believe it's going to work to
6 be honest with you, you know.

7 Thank you.

8 BOARD CLERK ESTABROOK: And then the next speaker
9 will be Tony Villegas. And then the next few that are on
10 the list, if you could make your way down, that would be
11 great.

12 TONY VILLEGAS: Hello, Board. I'm Tony Villegas
13 from Fresno, California. And I'm here just to say that
14 not too much anything, because I'm not much of a speaker.
15 But like our great leader Cesar Chavez used to say Si Se
16 Puede and I get -- I think you people can do it with the
17 Environmental.

18 Thank you.

19 (Applause.)

20 BOARD CLERK ESTABROOK: Thank you.

21 Sal Ayala

22 SAL AYALA: Good afternoon, Chair and Board
23 members. Thank you for this opportunity to give our
24 comments. We really do appreciate it. So I sit on the
25 Board of the California Hispanic Chambers of Commerce.

1 I'm the Inland Empire region chair, so I work with
2 business owners, and I know the effect, as my colleague
3 Marcus just spoke, that this will have on our business
4 community, driving them out of business and out of
5 California. We've done enough to hurt our community from
6 a businesses perspective to where they want to leave.

7 I think that it's irresponsible to put something
8 on that we're not prepared or ready for. Gas taxes will
9 reduce our tax dollars to help maintain roads in our
10 communities are simply, you know, residents of the state,
11 are not going to be able to afford to go out and buy these
12 EVs right. It's not -- it's not for everybody yet. We're
13 not there yet.

14 I think we're going in the right direction, but
15 it's just premature and irresponsible for us to put this
16 burden on our community and our residents of the state,
17 and more than anything, our businesses. You know, small
18 businesses is what runs this country and we continue to
19 burden us by putting these types of, you know, forced
20 policies that will eventually result in businesses leaving
21 the State, as we're already seeing.

22 So I think we're on the right path, but we're not
23 there yet. There needs to be more infrastructure and it
24 needs to be planned out in a better way before we start
25 forcing this on our businesses and our -- and on our

1 community more than anything. So I urge you to please go
2 back to the drawing Board and come up with a plan that
3 works, not something that is -- that is, you know, not
4 ready to be rolled out.

5 So please take those things into consideration
6 and I thank you for your time.

7 (Applause.)

8 BOARD CLERK ESTABROOK: Thank you.

9 Karen Klinger.

10 Then Mandy Chavarria.

11 Okay. Dianna Ebbitt.

12 All right. Then we're going back to Zoom for the
13 last few. Last few in Zoom, not the last few all total.

14 (Laughter.)

15 BOARD CLERK GARCIA: Okay. So the next few
16 commenters in Zoom will be Stephanie, Kevin Hamilton,
17 Erika Romero, and Samantha Ortega.

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

20 STEPHANIE: Thank you very much. Thank you,
21 Board, for allowing me to speak and I really want to
22 salute this process of democracy that you're leaning into
23 this. This is one of the better hearings I have attended,
24 and I have attended a lot.

25 I just would like to reiterate my support, as

1 well as the support of members of Together We Will,
2 Indivisible Los Gatos, and Orchard City Indivisible. Both
3 chapters represent thousands of people in Silicon Valley,
4 that we would request that you accelerate rate this
5 hundred percent zero-emission vehicle sales by 2030, that
6 you, in the meanwhile, be sure that you get seven percent
7 annual pollution tests from fossil fuel powered vehicles,
8 and that you first and foremost have mandatory equity
9 commitments to ensure communities that are most affected
10 by the pollution benefit from electric vehicles, when
11 you're formulating your policy.

12 I also would like to suggest that in addition to
13 your subject matter experts and your staff experts, that
14 you listen in to the California citizen experts on their
15 lives, and not only their lives but the lives other
16 children, and future generations, and your children, and
17 your legacy for your grandchildren and their
18 grandchildren, et cetera. We cannot provide generational
19 equity, unless we solve these problems now and we think
20 long term and not short term.

21 And with that, I thank you so much for your time.

22 BOARD CLERK GARCIA: Thank you.

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

25 KEVIN HAMILTON: Good afternoon. And thank you

1 for this opportunity. My name is Kevin Hamilton and I'm
2 the Executive Director of Central California Asthma
3 Collaborative. Today, I also represent the San Joaquin
4 Valley Environmental Justice Collaborative, and San
5 Joaquin Valley Clean Vehicle Empowerment Collaborative,
6 whose eight organizations working with -- in partnership
7 with CARB staff and others are dispelling the myth that
8 residents of low-income communities are not able to afford
9 electric vehicles as long as incentives are adequate and
10 information is provided by trusted messengers.

11 I was interested in slide 20 of the staff
12 presentation. I wonder who the owners of those remaining
13 gas vehicles are and what they're paying for gas. I'm
14 betting most are residents of low-income communities who
15 will likely have to wait more than 20 years more to
16 benefit from this rule in its present form.

17 We urge you to reconsider and accelerate the 2030
18 target to at least 75 percent. And while agree the
19 reduction of climate emissions is a good reason to do
20 that, the one that makes the most sense for equity is it
21 increases the number of vehicles entering the secondary
22 market from retired corporate leased fleets and rental
23 companies, potentially shortening the wait for these most
24 vulnerable and lowest income folks to finally own a ZEV.

25 Regarding the existing equity provi --

1 provisions, our members find them woefully inadequate.
2 All are voluntary and there are virtually no
3 disincentives. California holds 11 percent of new vehicle
4 sales in the U.S. and no OEM is going to leave this market
5 because of a higher target eight years from now. They'll
6 just build more cars as long as there's a market that
7 demands them. I think the evidence of that is clear from
8 the sales trends of the last few years. What could we
9 achieve if we set the goal even higher.

10 In closing, we would ask the Board to direct
11 staff to go back and revise the existing equity section of
12 this plan and make sure its weighted in favor of equity
13 with substantive provisions that ensure that's frontline
14 communities are benefiting with the rest of Californians.
15 Staff should proactively reach out and work with
16 organizations like ours who live and work in these
17 communities. As always, we stand, they stand ready to
18 help.

19 Thank you.

20 BOARD CLERK GARCIA: Thank you.

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

23 Erika Romero.

24 We'll move on to Samantha.

25 Erika I see you've unmuted.

1 MS. ROMERO: Yes. Good afternoon, Chair Randolph
2 and members. Erika Romero on behalf of Valley Clean Air
3 Now. These comments are specific to the proposed equity
4 provisions. Recognizing the need to avoid credit
5 inflation, it is also important to include strong
6 incentives that serve to motivate OEMs to make changes
7 need -- to make needed changes to their operations.

8 Valley CAN strongly supports these equity
9 concepts, particularly the off-lease ZEV and low MSRP
10 items, but we believe that the proposed equity credit
11 amounts are far too low to serve as a motivator to make
12 the significant changes to established market processes.

13 We encourage CARB and other parties to consider
14 increasing the equity credits for these two items from 0.1
15 and closer to a full credit in recognition in of the
16 challenge of redirecting lease returns to a new market or
17 building a ZEV with MSRP less than \$20,000. Thank you so
18 much for your time.

19 BOARD CLERK GARCIA: Thank you.

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

22 SAMANTHA ORTEGA: Good afternoon, members of the
23 Board. Samantha Ortega on behalf of ChargerHelp! We
24 applaud the Air Resource Board for the Advanced Clean Cars
25 II proposal. ChargerHelp! is a women, minority-owned

1 clean tech company based here in California dedicated to
2 the diagnostics, maintenance, and repair of electric
3 vehicle charging stations, software and hardware. This
4 includes both Level 2 and DC fast chargers.

5 EVSE technician is a new U.S. Department of Labor
6 approved occupational class. Our company with the support
7 of EV charging networks and manufacturers have built
8 condensed curriculum to support technicians and site hosts
9 in maintaining high operability rates for charging station
10 accessibility to the public fleets and property owners.

11 We ask to consider the implications of the
12 regulation that will bring to property owners and new EV
13 drivers in the purchase of EVs and charging stations. We
14 ask that, one, to strengthen equitable options in ZEV
15 sales in order to have mass adoption and support and
16 equitable transition among residents of disadvantaged and
17 low income communities. Additionally, provide resources
18 and options for property owners that will be purchasing
19 charging stations and those who will be using public
20 charging.

21 There are great products that exist today in the
22 market today, but the EV charging industry -- hello.

23 BOARD CLERK GARCIA: We can hear you.

24 SAMANTHA ORTEGA: They're great products that
25 exist in the market today, but the EV charging industry

1 still needs to mature in order to zero in on one product
2 over another.

3 Moreover, further research and data analysis
4 would be needed to conduct in order to implement more
5 focused standards to implement high reliability. Lines of
6 EV charging stations in late 2021, ChargerHelp! conducted
7 a study and determined that in various regions in states,
8 you know, one size does not fit all. EV drivers need to
9 have the flexibility in choosing equipment that best works
10 for their choice of vehicle.

11 With that, I'll --

12 BOARD CLERK GARCIA: Thank you

13 SAMANTHA ORTEGA: Thank you.

14 BOARD CLERK GARCIA: Okay. Our last three Zoom
15 commenters will be Bob Yuhnke, Stephanie Hagiwara, and
16 Jamie Dow.

17 Bob, I have activated your microphone. You can
18 unmute and begin.

19 BOB YUHNKE: Thank you. My name is Bob Yuhnke.
20 I'm representing Elders Climate Action, which has two
21 chapters in California, Southern California and a Northern
22 California chapter.

23 We're joining all the other groups, and there's
24 over 20 I've counted today, that have asked you to advance
25 the deadline for 100 percent zero vehicle sales to 2030,

1 because the climate crisis demands urgent action now. We
2 can't afford to wait.

3 But our focus today is on the air pollution
4 impacts of motor vehicles that need aggressive action to
5 include the 2030 deadline for the purpose of attaining air
6 quality standards in the extreme ozone non-attainment,
7 which include South Coast and the San Joaquin Valley,
8 where 20 million Americans are exposed to pollution levels
9 that contribute to premature deaths, and childhood asthma,
10 and other impacts that impair public health. Those
11 impacts are the most significant equity impacts on
12 low-income communities.

13 The most important task here is to eliminate the
14 air pollution that's causing those impacts. And this
15 proposal does not even come close. For South Coast, the
16 SIP documents indicate that South Coast is roughly 110
17 tons per day shy of the reductions needed for attainment,
18 and this proposal, by 2035, which is the -- would be the
19 federal deadline, would only achieve four tons of that.
20 Much more aggressive action is needed and the 2030
21 deadline would help achieve those standards faster.

22 BOARD CLERK GARCIA: Thank you.

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

25 STEPHANIE HAGIWARA: HiMy name is Stephanie

1 Hagiwara and I appreciate having the opportunity to
2 testify as a private citizen to support CARB undertaking
3 this proposal and urge you to adopt the strongest, boldest
4 standards possible, while including a mandatory equity
5 component to make the owning and right to repair electric
6 cars feasible for all income groups.

7 Electric calls for all is our path to end our
8 dependency on foreign oil, maintain access to clean air,
9 and a tool we need to use to preserve a climate that we
10 can all enjoy. I was born and raised in Los Angeles. In
11 the 1970s, I remember the air quality was so bad that
12 there were days PE and recess were canceled, and children,
13 seniors, and anyone with respiratory issues were
14 encouraged to stay indoors.

15 After the 1973 oil embargo, politicians would
16 proclaim that we need to end our dependency on foreign
17 oil. As a child, I watched the flames of more than one
18 wildfire in the hills above our home. Decades later, we
19 are still dependent on foreign oil. We are facing
20 higher-than-ever gas prices at the pump and it's impacting
21 our economic recovery. Due to climate change, on a
22 regular basis, firefighters are now battling wildfires
23 that in the past would have been considered a
24 once-in-a-lifetime fire.

25 In the 1970s, it took the Clean Air Act, combined

1 with CARB, implementing aggressive action to make our air
2 breathable for all. We need CARB to lead the way in the
3 national and global effort to eliminate dangerous air
4 pollutants. A key step is accelerate mandating
5 manufacturers to sell zero-emission vehicles priced for
6 all income levels with the right for all to repair.
7 Please adopt the strongest, ambitious, most far-reaching
8 standards possible.

9 Thank you, staff's hard work and for your
10 consideration. Thank you.

11 BOARD CLERK GARCIA: Thank you.

12 Jamie Dow, I have activated your microphone.
13 Please unmute and begin.

14 MR. JAMIE DOW: Hi. This is Jamison Dow. I'm a
15 lifelong California resident, EV journalist, and I've had
16 asthma my whole life, like the two million kids who get it
17 ever year globally from traffic pollution and whose
18 lifetime of health costs are not paid by those polluters.

19 Automakers say it will be hard to reach the 2035
20 target. They've made excuses and how touted their
21 insufficient actions to fight climate change. They've
22 questioned this regulation from every angled to slow down
23 implementation because this will be too hard. We can't do
24 it fast enough. But none of this matters.

25 In this negotiation the automaker's adversary is

1 not CARB, California voters, or the courts. Their
2 adversary is physics. And physics does not care about
3 your mundane complaints. It only cares how much carbon is
4 in the atmosphere. A study just came out, which shows
5 that we can stop climate with immediate action. But even
6 if we lower climate emissions to zero today, not in 2035
7 or 2050, we have chance to go over 1.75 C of warming,
8 which is the target that we do not want to exceed and we
9 must lower that chance.

10 So, in -- again, in the face of physics, which
11 does not negotiate, nothing the automakers have said
12 matters at all. We must stop emissions not just as fast
13 as put, but faster than these automakers claim is
14 possible. They have to pick up the pace. And if they
15 can't, then try harder. All hands on deck, figure it out
16 or go bankrupt. And why not also pay for the pollution
17 you've caused in the last century by they way.

18 The 2035 requirement is not enough. California
19 should be selling -- shouldn't be selling gasoline today,
20 much less 20 or 30 years in the future, as 2034, gas cars
21 will still pollute for decades down the road. And
22 California, with our U.S. and global leadership can make
23 automakers pick up the pace by choosing a stronger target
24 than ACC II.

25 I call on the Board to implement a stronger

1 regulation pulling forward targets to 100 percent all EV
2 by 2030 or even earlier, and further work to reduce car
3 usage in general and shift people from cars to cleaner
4 transport methods. This is what Norway is doing, which is
5 nearing its 2025 EV only sales requirement already in
6 2022. And the biggest auto company in the world by market
7 cap has been all EV since 2008. So these targets can be
8 met and California shouldn't be a global laggard on this
9 issue.

10 Thank you very much for your time.

11 BOARD CLERK GARCIA: Thank you.

12 And our last Zoom commenter will be Chris Bliley.

13 Chris, I have activated your microphone. Please
14 unmute and you can begin.

15 CHRIS BLILEY: My name is Chris Bliley, Head of
16 Regulatory Affairs for Growth Energy. Growth Energy is
17 the World's largest association of biofuel producers,
18 related business, and supporters.

19 Even as alternative technologies flourish, liquid
20 fuels will continue to play an important role in the
21 transportation sector for decades to come. As such, it's
22 imperative to consider the vital role that environmentally
23 sustainable fuel options, such as bioethanol, will play in
24 reducing greenhouse gas and air toxic emissions in the
25 current and future California vehicle fleet.

1 In the existing light-duty fleet, higher
2 bioethanol blends like E15 and E85 can be immediately
3 deployed to achieve greenhouse gas reductions and reduced
4 consumer costs at the pump. The use of more bioethanol
5 blended fuel also further improves air quality by reducing
6 harmful air toxics such as carbon monoxide, benzene, and
7 particulates. This improvement in air quality in turn
8 helps to improve public health, particularly in urban high
9 traffic density populations.

10 E15 has already been approved for use by the EPA
11 in all 2001 and newer light-duty vehicles and now
12 available in 31 states. With consumers facing record gas
13 prices, E15 has consistently been less expensive than
14 regular gasoline and has been available for up to \$0.50
15 less per gallon at some locations in recent weeks.

16 It is critical that California complete its
17 evaluation of E15, so that it can be made available to
18 California drivers to further help the state achieve its
19 carbon neutrality goals. Additionally, greater use of E85
20 will promote even further reductions in greenhouse gas and
21 air toxic emissions, as well as lower consumer costs.

22 Today, E85 is selling \$2 less per gallon than
23 regular gasoline. The Board should strongly encourage,
24 incentivize, and even require the production and use of
25 flex fueled vehicles in conjunction with higher bioethanol

1 blends for the remaining ICE fleet, as well as invest in
2 infrastructure for expanded access to higher bioethanol
3 blends.

4 More broadly, we look forward to working with you
5 to help the State achieve its climate goals through the
6 expanded use of bioethanol. Thank you in advance for your
7 consideration.

8 BOARD CLERK GARCIA: Thank you. And that
9 concludes the list Of Zoom commenters.

10 CHAIR RANDOLPH: Okay. Thank you. We have to
11 take a 10-minute break to give our court reporter some
12 time off.

13 I apologize.

14 (Laughter.)

15 CHAIR RANDOLPH: So we will be back shortly.

16 (Off record: 3:13 p.m.)

17 (Thereupon a recess was taken.)

18 (On record: 3:23 p.m.)

19 CHAIR RANDOLPH: Okay. We are back from our
20 break and we will call the next couple of commenters.

21 BOARD CLERK ESTABROOK: All right. I'm going to
22 go ahead and go through the list. Feel free to make your
23 way forward and then if you want to just transition
24 without me calling, that's totally fine as well.

25 Sherry.

1 SHERRY CHAVARRIA: Good afternoon, Board members
2 and the people that were nice enough to come today that
3 care. My name is Sherry Chavarria. And I and the
4 President of the Dinuba Democratic Club representing and
5 also with Si Se Puede.

6 As a Democrat, we have always stood for working
7 families and underserved communities. I take it very
8 personal. I'm sorry. These new regulations that are
9 very -- that are being proposed will hurt the Central
10 Valley communities. Families are having a hard enough
11 time raising their families in California and now you plan
12 to impose these new regulations in California.

13 I was born and raised in Dinuba. The population
14 is 25,000. The poverty rate is 26.40 rate and is
15 climbing. We are the raisin capital of the world. In
16 Tulare County, we are farm labor industry. We feed you.
17 We are the ones that go out and pick the grapes on our
18 hands and knees. We pick the fruit. We are the ones that
19 work in the packing houses that have three children at
20 home, like myself that I raised. As a hairdresser, I
21 worked 13, 14 hours just to be able to afford my children.
22 I was a middle class person at one time. Now, I am lower
23 class -- under lower class. I am below poverty level with
24 \$1,100 disability check, that I have had to move into a
25 one room place to be able to afford. How can I afford a

1 Tesla with the incentives that you give me?

2 I am a person. These people are people. You
3 overlook the people that put the food on your table. We
4 need incentives that are going to help us. The people
5 that get the incentives are the upper class. Oh, how
6 wonderful. You bought your first Tesla last year, and
7 you're on your third one. I could barely afford to buy a
8 car two years ago. I have outstanding credit for me. A
9 700 credit is really good, because I make sure I pay my
10 bills on time, even if I have to get payday loan.

11 BOARD CLERK ESTABROOK: Thank you.

12 SHERRY CHAVARRIA: But I pay them on time because
13 I knew I needed to get a car when mine broke. And when I
14 went to get my car, I didn't qualify. Okay. I got a 2018
15 Honda Accord, but I couldn't get the --

16 BOARD CLERK ESTABROOK: Thank you.

17 SHERRY CHAVARRIA: -- hybrid. Why? Because I
18 didn't have the income to pay \$500 payment and the
19 insurance. So these are the people that you have to think
20 about, not just yourselves, and energy companies, and the
21 gas -- and the energy companies that are going to make the
22 money. We are the people -- we are your backbone.

23 BOARD CLERK ESTABROOK: That concludes your time.

24 Thank you so much.

25 SHERRY CHAVARRIA: Thank you.

1 (Applause.)

2 BOARD CLERK ESTABROOK: Marcus Gonzalez.

3 Mike Williams.

4 John Larrea.

5 Carlos Soloranzo --

6 CARLOS SOLORZANO: Solorzano.

7 BOARD CLERK ESTABROOK: Solorzano. Sorry.

8 CARLOS SOLORZANO: Good afternoon, Board members.

9 My name is Carlos Solorzano. I'm the CEO of Hispanic
10 Chamber of Commerce of San Francisco and the Chair for the
11 Northern Region of California Hispanic Chambers.

12 As you know, we are an agriculture and a builder
13 state. And today, nobody is talking about the fruit,
14 about the people who pick up your fruit, the people who
15 serve your food, the people who clean your house, the
16 people who build your places. Nobody is talking about
17 those.

18 We know we're concerned. We all are concerned
19 with the situation. We are concerned already with all the
20 information and everything that we get in toward keeping a
21 clean planet. But the ACC II Regulation is going to cost
22 families. Over 85,000 jobs are going to be suffering.
23 And I say working families, because the lost jobs are not
24 going to be the Silicon Valley, or the San Francisco,
25 where I'm from. It's going to be the people, like I said,

1 to pick up your fruit, to do the cleaning and all those.
2 And it's going to be all the small businesses that we
3 represent. And we represent over 5,000 businesses in the
4 Bay Area that's going to be affected by all this.

5 It is important because when they close -- mom
6 and pop closed in San Francisco, we lost 39 percent of the
7 Latino businesses for all the situations that I'm not
8 going to be naming that's been happening, but this is
9 going to be one more.

10 San Francisco has only 15 percent of the Latino
11 population that it has. They drive from Manteca, Tracy,
12 and other places. It is important because the small
13 businesses are the foundation of the economy and the
14 backbone of the United States. We need to have this
15 regulation be very careful. We need to have them be aware
16 when you do something, you're going to be aware of what is
17 affecting all these people.

18 You know, these regulations that we have right
19 now are affecting all the people that is serving
20 California. So I thank you and please make sure that you
21 are aware of what you're doing.

22 Gracias. (Spoke in Spanish.)

23 BOARD CLERK ESTABROOK: Thank you.

24 Mike Williams

25 (Applause.)

1 THE INTERPRETER: It's important that we truly
2 represent our people.

3 BOARD CLERK ESTABROOK: Thank you.

4 MIKE WILLIAMS: Thank you for having me today.
5 I'm Mike Williams and I'm here on behalf of the IWLA, the
6 International Warehouse Logistics Association.

7 While IWLA members are committed to energy
8 efficiency, environmental resilience, and conserving our
9 environment, we have grave concerns regarding CARB's
10 proposed Advanced Clean Cars II Rule, specifically the
11 feasibility surrounding the lofty goals set forth in the
12 rule and the very real economic impacts it will have on
13 California businesses and California consumers alike.

14 First, the 2035 goal to ban the sale of all gas
15 vehicles is not only arbitrary, but it is not even based
16 on any market feasibility study to fully consider the
17 effects of the ban.

18 Critical infrastructure that is necessary to fuel
19 and sustain these vehicles must be sufficient to not
20 disrupt the transportation system nor the power grid, and
21 CARB has provided no evidence that this is achievable or
22 even possible.

23 In fact, the California Energy Commission's
24 recent reliability assessment indicates there may be a
25 five gigawatt shortfall this year alone. That's enough to

1 power over 3.5 million homes. And the addition of
2 millions of electric vehicles on the road will only tax
3 the electric grid further. And additionally, CARB has
4 provided no blueprint for recouping lost revenue to
5 maintain our highway transportation infrastructure, which
6 is currently generated by vehicle fuel taxes.

7 We believe it is irresponsible to create such a
8 budget shortfall without having a plan to replace those
9 lost revenues, the loss of over 15 billion for critical
10 road infrastructure. It would result in more potholes,
11 more decaying bridges and overpasses, and more traffic
12 safety concerns leading to more vehicle damage and more
13 crashes.

14 This will ultimately make driving more expensive
15 and more dangerous for all California drivers. In
16 summary, while the goals of CARB's proposed ACC II rule
17 are admirable and noble, IWLA cautions against its
18 implementation without sufficient consideration of its
19 dire economic impact. At the very least, a feasibility
20 study should be undertaken to assess the cost and
21 tenability of installing the infrastructure necessary to
22 support the amount of EVs by the proposed date of 2035.

23 BOARD CLERK ESTABROOK: Thank you.

24 MIKE WILLIAMS: Thank you for your consideration.

25 BOARD CLERK ESTABROOK: All right. Julian

1 Canete.

2 JULIAN CANETE: Good afternoon, Madam Chair, CARB
3 Board. Thank you for allowing us to share our concerns
4 with you this afternoon. Julian Canete, California
5 Hispanic Chambers of Commerce. And I'm here to urge CARB
6 to reassess and reevaluate the proposed ACC II
7 regulations. We are concerned about the costs to our
8 communities of color and to our small business owners. In
9 its current form, the proposed rules will cost California
10 85,000 jobs and over \$15 billion in personal income under
11 the proposed rules.

12 There is no scenario that justifies such a
13 massive collapse of economic wealth for our communities of
14 color, this plan -- that this plan puts forward. The word
15 "sustainable" is often used in environmental documents,
16 but we have a hard time accepting that this plan is
17 sustainable for the many families that will lose their
18 jobs if these rules are adopted.

19 These are 85,000 jobs, numbers from your own
20 consultant. We can find a better path forward for new
21 regs. The California Hispanic Chamber is looking forward
22 and is here to help achieve solutions to meet California's
23 climate change goals and our mission. And we look forward
24 to working with you and the CARB staff.

25 Thank you.

1 (Applause.)

2 BOARD CLERK ESTABROOK: Thank you.

3 Sam Bayless.

4 Chris Walker.

5 Sylvia Duarte.

6 SYLVIA DUARTE: Hello. Thank you, Chair Randolph
7 and thank you to the Board. First of all, I wanted to say
8 thank you for what you guys have done. But this proposal
9 will hurt our members and their families. These proposals
10 will affect those that can least afford to purchase a new
11 vehicle. And they will be left to have to purchase older
12 vehicles. And by doing that, they will be left to carry
13 the burden of gas taxes and high utility costs.

14 With record State revenue, why are we asking
15 working families to shoulder the burden of these new
16 regulations. Our members do not drive electric vehicles,
17 do not have rooftop solar, and we don't see that changing
18 by 2035.

19 Let's take a step back. We are still in the
20 midst of a pandemic. The pandemic has affected so many
21 businesses already. And if you're asking them to change
22 out their fleet, they're not going to be able to afford
23 that, and they might close their business or leave
24 California altogether.

25 So I think we need to help this economy. And

1 by -- by asking for these mandatory and affecting our
2 families, it's not going to move forward. So please take
3 into consideration the lower income families. We are
4 willing to work with you and see how we can help each
5 other. Thank you for your help.

6 BOARD CLERK ESTABROOK: Thank you.

7 Will Scott.

8 Emily Maravillo.

9 EMILY MARAVILLO: Good afternoon, Board members.

10 My name is Emily Maravillo and I am from Salinas,
11 California. I'm 19 years old and I'm a student at UC
12 Merced. I'm a believer in green energy and renewables.
13 But as I look around my community in the Central Valley, I
14 don't see any infrastructure that supports eliminating
15 fossil fuel energy -- engines.

16 I ask you Board members to not only think about
17 the people who can forward electric vehicles but consider
18 all Californians before making these decisions. Where I
19 live, a lot of the families are low income and they're not
20 going to be able to afford electrical vehicles. So I just
21 ask you to please consider what this will do to anybody in
22 any community.

23 Thank you.

24 BOARD CLERK ESTABROOK: Thank you.

25 (Applause.)

1 BOARD CLERK ESTABROOK: Ysidro Garcia.

2 YSIDRO GARCIA: Good evening. My name is Ysidro
3 Garcia. I'm here with -- on behalf the Latin Business
4 Association. CARB's own analysis show that the ACC II
5 regulations will cost Californians over 80,000 -- 85,000
6 jobs and it will reduce personal income by 15 billion.

7 The small business and their employees cannot
8 absorb these economic losses. These regulations create
9 winners and losers. The winners are just the large
10 multi-national corporations that can absorb these costs or
11 pass them on to other customers. Small business do not
12 have these luxuries. We urge the Board to mitigate the
13 damage these regulations will have on the small business.

14 Thank you for your consideration.

15 (Applause.)

16 BOARD CLERK ESTABROOK: Thank you.

17 Matt Sutton.

18 Bob Evans.

19 Carl Burton.

20 Doug Kessler?

21 DOUG KESSLER: Good afternoon. My name is Doug
22 Kessler and I'm the Executive Director of Si Se Puede
23 Central Valley. We are a 501(3)(c)[SIC] organization.
24 And I wanted to kind of give a shout-out to our former
25 Senator, Senator Florez, because he knows this will not

1 work in our valley. You know, you have places that you
2 guys probably never heard of that aren't on maps Alpaugh
3 and Palm -- and Pond and Lanare. They don't even have
4 clean water and you're going to ask them to get a car
5 before they can have water or basic human rights? Please
6 consider what you're doing with that. You know, we do a
7 lot of work in Huron and Orange Cove. They average
8 income, according to the new census is under \$26,000,
9 under the cost of what the car is going to be. They don't
10 qualify. You know, a lot of those people don't qualify to
11 get the grant, so please consider what you're going to do
12 to the Central Valley.

13 Thank you very much.

14 (Applause.)

15 BOARD CLERK ESTABROOK: Carissa Gonzalez.

16 Phil Vermeulen.

17 All right. Jim Relles.

18 Sorry. We're going to put out the new list. We
19 went through a little faster than expected.

20 JIM RELLES: Madam Chairman and Board members,
21 appreciate you giving us the opportunity to speak today.
22 I'm an owner of a small business in Sacramento. I'm
23 second generation. We've been in business 75 years. And
24 my son now is going to be taking over the business. We
25 have 17 regular employees, and then at holidays our staff

1 goes up to between 20 and 40 people. We have seven
2 vehicles that we're using now. And I urge the Board to
3 consider on moving out the ACC II regulations out to give
4 the car manufacturers more times to produce lower priced
5 delivery vehicles is -- and many of our small business
6 people are -- I mirror their same situation with their
7 costs and what they can afford to do. And at this present
8 time, we couldn't afford to transfer and swap out seven of
9 our vehicles. So I hope you take that into consideration.

10 And thank you very much for your time.

11 (Applause.)

12 BOARD CLERK ESTABROOK: Thank you.

13 All right. Next will be Jack Frost.

14 Dave Butler.

15 Lori Kammerer.

16 Joe Partida.

17 JOE PARTIDA: Good afternoon, Board Chair, Board
18 Directors, and staff. My name is Joe Partida and I'm the
19 President of the Oakland Latino Chamber of Commerce. And
20 I hear all my small business owners here that came up and
21 expressed to you the problems that this would -- well, it
22 will -- it will -- it will destroy some businesses. It
23 will hurt many others, because they have gasoline diesel
24 trucks that need to be changed to electric or they cannot
25 afford to change them that quick. I have a friend that

1 has one truck just sitting in her -- in her -- in her yard
2 and she can't use it, because of the same reason is now
3 the rules have changed for that truck. The truck has now
4 aged. So I mean, you have a lot of small businesses that
5 are going to be hurt.

6 Since I'm from Oakland, I see the trucks at the
7 Port of Oakland lined up. I mean, that's an example of a
8 lot of trucks that need to be changed that you --
9 you'll -- you'll have to -- it will take time. It's not
10 going to happen overnight. So I'm asking you to please
11 hold off on this mandate, because I think you need to go
12 back to the drawing board and get some more work done here
13 on the drawing board. How can we help these businesses
14 before they go out of business or they terribly go into
15 bankruptcy.

16 Another -- another thing -- that -- that -- that
17 kind of -- then -- and nobody has mentioned is that, for
18 example, what I should say California is the leading
19 state. California is the fifth largest economy in the
20 world. So what does that mean? That means we're doing
21 very well, but that means only certain sector of our -- of
22 our economy is doing well, the tech, finance, building,
23 other areas.

24 But that is only two-thirds of our population.
25 The other one-third is on Medi-Cal. So that's a lot of

1 people that will be hurt that cannot afford electric
2 vehicles. Thank you.

3 (Applause.)

4 BOARD CLERK ESTABROOK: Thank you.

5 Rhianna Garcia.

6 Timothy Marvillo.

7 TIMOTHY MARVILLO: Good afternoon, Board. Thank
8 you for your time today. My name is Timothy Marvillo and
9 I am from Salinas, California.

10 I am a recent graduate from UC Merced. At 21
11 years old, I can barely afford college tuition and housing
12 expenses without having to work part time on the side.
13 Without having the means to pay for schooling, how would I
14 be able to afford an electric car by timeline being
15 proposed. I am a huge advocate for saving the planet and
16 health, as I just received my BS in Biological Science,
17 hoping to seek out medical school in the future. But how
18 can I expect to pay tuition when the target proposition is
19 in this timeline, when I'd just be beginning my way in
20 medical school.

21 Everyone wants clean air and water. However,
22 these new regulations will disproportionately affect
23 people of color, minorities, and those living with
24 financial burdens that will find it extremely difficult to
25 transition to an electric vehicle.

1 Also, it will greatly impact my community of
2 Salinas, where many of our residents work endless hours to
3 earn a check that goes directly to provide for their
4 family. I'd like to ask you to consider about those who
5 live in Salinas and those in low-income families who
6 provide for their family first and then still have the
7 chance to allow their kids to do opportunities such as
8 clubs and sports, and that's where money generally is
9 going, whereas it's not being used to save up for electric
10 cars.

11 We are not ready for such quick -- a quick
12 transaction. Please consider a longer transition and
13 please consider the difficulties my generation is going to
14 face transitioning into this next phase. It's just not
15 possible by the dates being proposed.

16 Thank you.

17 (Applause.)

18 BOARD CLERK ESTABROOK: Thank you.

19 Manuel Cunha, Jr.

20 BOARD CLERK GARCIA: I think he's on Zoom.

21 BOARD CLERK ESTABROOK: I believe that he might
22 be in Zoom, so let me -- all right. Manuel Cunha is not
23 showing up here.

24 Estella Kessler.

25 ESTELLA KESSLER: Good afternoon, Board and

1 members. My name is Estella Kessler and I'm from Selma.
2 It's in the heart of the Central Valley.

3 I work in the education field and those proposed
4 reg -- the pro -- these proposed regulations will cost our
5 school districts in California billions of dollars to
6 purchase electric school buses. Maybe the districts where
7 you all live can afford this, but our schools in Central
8 Valley need our funding to educate our children. We all
9 want clean air and water, but not at the risk of our
10 children's education.

11 Thank you.

12 (Applause.)

13 BOARD CLERK ESTABROOK: Thank you.

14 Ysidro Garcia.

15 Emily Maravillo

16 And then Timothy we already called you.

17 And then Julian, you already spoke as well.

18 Michael Garcia?

19 Magali Torres.

20 MAGALI TORRES: Good afternoon, Board. Thank you
21 for your time today. My name is Magali Torres and I am
22 the Outreach and Engagement Coordinator for the California
23 Hispanic Chambers of Commerce, but today I'm representing
24 the Merced County Hispanics Chambers of Commerce as a
25 long-term resident of Merced County. And today, I want to

1 bring to your attention good jobs and a healthy economy
2 needs to be part of the environmental justice
3 conversation. Good jobs and economic opportunity are
4 gateways to a cleaner local environment. And if someone
5 cannot take care of their family or small business, how
6 can you expect them to delve into an all electric future,
7 when the State is not in a position to support that
8 conversion by 2035.

9 How can we help and be a part of the solution as
10 we move towards the carbon neutral future. We want to
11 help, but the plan before you today is not the solution.

12 Thank you.

13 (Applause.)

14 BOARD CLERK ESTABROOK: Thank you

15 Elaine Conway.

16 ELAINE CONWAY: Good afternoon, Board members.

17 My name is Elaine Conway. And I'm from Dinuba,
18 California. I'm a widow and disabled.

19 There are new regulations that will hurt my
20 family's pocket. Our family doesn't have the ability to
21 buy expensive electric cars while there may be a few years
22 before gas powered cars are illegal. I don't see them
23 lowering gas prices for electrical. It seems only the
24 wealthy can forward to make this change. I am all about
25 saving the earth, because I'm a very bad asthmatic. I go

1 two or three times a month to the hospital emergency in
2 able to breathe.

3 But with everything going so high and -- there's
4 no way I can walk and -- or buy a car, so I'm going to
5 have to look for a job at my age. So it's just a
6 hardship. And I know that we need to clean up the air,
7 but that should have been generations ago when the car
8 dealers are selling their Edsels and their this and that,
9 you know. And now that it's very dangerously for us to
10 live, they want to do everything in a hurry, but it's
11 impossible. So I thank you for your time and eventually
12 we'll get there, but not yet.

13 Thank you.

14 (Applause.)

15 BOARD CLERK ESTABROOK: Thank you.

16 Michael Garcia, back yet?

17 Jess Gonzalez.

18 JESS GONZALEZ: Good afternoon. My name is Jess
19 Gonzalez and I'm with organization Si Se Puede out of
20 Fresno.

21 As an organization rooted in the Central
22 California Hispanic farmworker community, Si Se Puede is
23 tuned into what impacts our communities. Advanced Clean
24 Cars II, if adopted, will impact negatively in numerous
25 ways life in our communities, if implemented, to rapidly.

1 Rome was not built in a day.

2 ACC II with all its regulations and mandates will
3 also take time to be built and implemented. That is the
4 real world. Whereas much as farmworkers are said to be
5 for ACC II, I have not spoken to one farmworker who is
6 actually for it. More than anything, farmworkers want to
7 be able to support their families. Yes, they too want
8 clean air, because many of them have asthma, but more than
9 anything, they want to be able to afford to buy food, have
10 appropriate housing, adequate health care, and
11 transportation.

12 ACC II will make great financial demands on them,
13 the people who put the food on the table, the low-income
14 people who do the jobs that no other people will do. I
15 know of no farmworker who will ride a bike to work in the
16 fields. After working eight to 10 hours in 90 to 105
17 degree weather, they will be tired and they will not ride
18 10 to 20 miles to get home. It's just not realistic to
19 say that. So before you adopt ACC II think of how people
20 will be affected, think about how all will be able to
21 respond to your mandates.

22 Don't base your findings solely on people who can
23 afford the new technology. We all breathe the same air.
24 But give the low-income communities a fighting chance,
25 make ACC II affordable, practical, functional, and give it

1 time to be implemented. Make it work for everyone, not
2 just for select groups.

3 Thank you.

4 (Applause.)

5 BOARD CLERK ESTABROOK: Thank you.

6 Inga Olson.

7 Katie Little.

8 KATIE LITTLE: Good afternoon, Chair and members.

9 My name is Katie Little and I am here on behalf of the
10 California Farm Bureau today. We have major concerns with
11 the proposed Advanced Clean Cars II Regulation. A
12 majority of California farmers and ranchers live in rural
13 communities that have limited access to the infrastructure
14 required for these vehicles. Currently, our members and
15 their employees already face interconnection hurdles
16 without this added burden.

17 Increased utility rates and limited grid access
18 already affect management decisions and farming practices.
19 If there is not enough grid capacity to operate water
20 pumps and basic farm equipment, how can we expect enough
21 additional capacity for electric charging vehicles for
22 on-farm and employee transportation.

23 Farm employees often have to travel long
24 distances due to the remote nature of farms. Because of
25 this, it would be important to have on-site or farm

1 charging capabilities, again, in rural, remote regions
2 that are prone to power outages.

3 Passenger vehicles on farms are used in a
4 continuous basis, often traversing rugged and remote
5 terrain. Taking these vehicles out of use to charge is
6 impractical and will cut into productivity, let alone the
7 lack of qualified mechanic support for these types of
8 vehicles in rural areas.

9 This proposal will ultimately impact farm
10 employees, rural communities, and food prices, which are
11 already soaring.

12 Additionally, this proposed regulation will
13 increase concerns surrounding California's food security
14 by asking farmers and their employees to rely on a grid
15 that is prone to blackouts, Public Safety Power Shutoffs,
16 and power outages. California Farm Bureau asks for a
17 closer review of rural utility availability and capacity.
18 This is a vital component of this proposed regulation,
19 which has not been addressed. Without a massive
20 investment in rural California, we will be left quite
21 literally in the dark.

22 Thank you.

23 (Applause.)

24 BOARD CLERK ESTABROOK: Thank you. All right.
25 And that concludes the list Of commenters, Chair.

1 CHAIR RANDOLPH: All right. Thank you to our
2 Board Clerks for managing both in-person and remote public
3 comment.

4 Okay. So this is the first of two Board
5 hearings. So I will now be closing the record on this
6 agenda item. However, the record will be reopened and a
7 15-day Notice of Public Ability -- Availability will be
8 issued for additional conforming modifications. When the
9 record is reopened for a 15-day comment period, the public
10 may submit written comments on the proposed changes, which
11 will be considered and responded to in the Final Statement
12 of Reasons for the regulation. Written or oral comments
13 received after this hearing ate, but before this 15-day
14 notice is issued will not be accepted as part of the
15 official record on the agenda item.

16 Okay. I am now ready to bring this item to the
17 Board. I know Board Member Sperling and then Board Member
18 Takvorian were going to be starting things off.

19 BOARD MEMBER SPERLING: Thank you very much.
20 This has been quite a day. But as I'm going to comment in
21 a moment, it's been quite a day for a good reason. So I
22 do want to start just by commending staff. You know,
23 there's a lot of wisdom that went into this proposal, a
24 lot of work and a lot wisdom.

25 And you know, I'd note it's not their first

1 rodeo. There are -- and I want to call out a
2 particular -- you know, Anna -- Anna Wong, Mike McCarthy,
3 Joshua Cunningham, they've been through this for a long
4 time and -- and it shows.

5 So I do have some -- let me -- I'm going to give
6 just some overarching thoughts. You know, I guess in some
7 ways, I have somewhat unique perspective. I've been --
8 we'll I've been on the Board for a long time, but I --
9 even before that, as an academic, I testified at some of
10 the ZEV hearings back in the 1990s. So I've really
11 tracked this carefully and closely for 30 -- for 30 years.

12 So as Chair Randolph said, from a regulatory
13 perspective, this all started 32 years ago. We adopted
14 the ZEV mandate in 1990. We called for 10 percent ZEVs by
15 2003 in that CARB rule -- CARB regulation in 1990. Well,
16 we just barely got there a couple years ago. We're now
17 getting to around 16 percent market share.

18 But you know, another way of looking at it, it's
19 taken us 32 years to get to 16 percent market share. So
20 this proposal is very aggressive, it's very ambitious, and
21 it's very important. And so I understand to a lot of
22 people it's scary. You know, it's a big change. To
23 others it seems very weak. It's like, you know, what are
24 we waiting for?

25 But at the end of the day, vehicle

1 electrification, what we're doing here, is by far, by far
2 the most important strategy for decarbonizing
3 transportation. There's nothing even close to it.

4 And we -- from this, it will come, not only the
5 benefits of greenhouse gas reduction and air pollution
6 reduction, but also as the staff reported, large cost
7 reductions. And I think that's something that is not
8 widely appreciated and, you know, should be emphasized
9 more. Now, these cost analyses, they're based upon lots
10 of assumptions about cost of electricity, cost of
11 gasoline, you know, who knows what those are going to be
12 in the future, the future cost of batteries, and also how
13 the bat -- how the vehicles are driven, and how they're
14 used.

15 But the point is unlike most other climate
16 strategies, ZEVs are good for consumers and good for the
17 economy. And within a few years, you know, we're going to
18 see on a total cost of ownership basis, which means the
19 economic benefit, it's going to be positive relative to
20 gasoline, and the same story for trucks as well.

21 So it's for these reasons that I very strongly
22 support the overall goals and the trajectory of the staff
23 proposal. I am sensitive to the fact that this rapid
24 transformation it will be disruptive. It's going to be
25 disruptive across many industries, not just the auto

1 industry, not just the oil industry. You've got the part
2 suppliers. You've got the mechanics. You've got the
3 electric utilities. You've got the local governments. So
4 it's going to be disruptive.

5 And it's going to be even more disruptive in
6 other -- in the other states who lag behind California in
7 every way, in terms of awareness, in terms of
8 infrastructure, in terms of incentives, in terms of, you
9 know, sales.

10 So I do have -- I'm going to give a -- I have a
11 set of seven conclusions and recommendations. But I have
12 one more observation I want to add, and that is that one
13 of the changes here -- important changes is that the staff
14 is taking a New approach to plug-in hybrids, and I
15 strongly endorse this. This has been a long-term issue,
16 that those key staff people know all about, and many
17 others do as well.

18 But, you know, as Chair Randolph said, getting
19 those -- getting to a hundred percent is going to be
20 really hard. And, you know, there are people living in
21 apartment buildings where it's going to be really hard.
22 There are people living in cold weather. So Bob Graham
23 who testified this morning went through a whole list of,
24 you know, why it's going to be hard getting to a hundred
25 percent. And we should not understate that. It is. And

1 so that's why plug-in hybrids, fuel cell vehicles, we
2 really need to keep them on the table, because we're not
3 positive how this is going to end. We have that stake in
4 the ground. We're going to be committed to it, but it --
5 there are going to be a lot of challenges.

6 And so I'll say I have one big concern. So I
7 actually am very happy with, you know, what staff came up
8 with. You know, there have been changes along with. I
9 think they've really listened carefully to all the
10 different stakeholders and done a really good job of
11 updating and revising the proposal in recent month -- and
12 you know, for quite a while for, you know, the past year
13 or two.

14 But my biggest concern by far is dealing with the
15 other states. And we need them to be successful, because
16 what we're doing here is not just for California. And if
17 you look at it from a climate perspective, actually this
18 is -- it's much more important the -- what it means to and
19 the implications for the other states and the rest of the
20 world.

21 We are the first entity in the world to be
22 adopting these aggressive, you know, 2030 -- aggressive
23 requirements to go to a hundred percent zero-emission
24 vehicles. You know, Nor -- other countries are ahead of
25 us, but we're the first one to actually put this in place

1 as a regulation and a requirement. The European Union
2 is -- is, you know, close behind. China is close behind
3 in adopting these. You know, many countries, as I said,
4 are ahead of us, but we're going to be catching up with
5 almost all -- all but Norway probably.

6 Okay. So I am really concerned about that. And
7 because, one, we want a lot of states to join us, you
8 know, not just 10 -- five states or 10 states. We want,
9 you know, a lot more, and we want it to be successful in
10 those states.

11 So it's easy for, you know, the environmental --
12 you know, the CARBs of the states to say, yes, we are on
13 board. We want to do it. But at some point, you know,
14 it's going to be, you know, the new car dealers, a lot of
15 other entities, they're going to go to the Governor. If
16 there's problems, they're going to go to the Governor.
17 They're going to go to the Legislature. They're going to
18 go to the courts. So we need to make sure this works for
19 the other states as well for us.

20 Okay. So given that, here are my seven
21 conclusions and recommendations. So first of all --

22 CHAIR RANDOLPH: Try to be as succinct as you
23 can, so that Board Member Takvorian has a chance to
24 comment too.

25 BOARD MEMBER SPERLING: Okay.

1 CHAIR RANDOLPH: So run through your seven.

2 BOARD MEMBER SPERLING: Okay. Seven. I'll do
3 these quickly. You know, I am professor.

4 (Laughter.)

5 BOARD MEMBER DE LA TORRE: But we're not in
6 class.

7 (Laughter.)

8 BOARD MEMBER SPERLING: But you're not in class.

9 (Laughter.)

10 BOARD MEMBER SPERLING: Okay. So number one,
11 there's a lot of provisions dealing with internal
12 combustion engines, gasoline. I think they're pretty much
13 fine. And, you know, I would note that we've already
14 gotten a 99 percent reduction in emissions from gasoline
15 vehicles. So, you know, there's a lot of little tweaking
16 going on. I think all fine

17 The proposed trajectory going to 35 percent in
18 2026, 68 percent in 2030 and 100 seems about right to me.
19 If it was just for California, I'd -- I'd agree with some
20 of the people that are pushing, you know, for 75 percent
21 and so on. And I'd be -- you know, I don't if I'd agree
22 with it, but I'd be open-minded to it.

23 But because this is for the other states as well,
24 I definitely do not support going above that 68 percent.
25 In fact, I think that's pretty aggressive by itself.

1 Okay. Number three. Though I'm concerned about
2 these -- all the rules we're doing for the 177 states, I
3 can -- I can live with the provisions that are being
4 proposed and adopted. And it's given, because there's a
5 lot of legal constraints. There's a lot of political
6 considerations. And I've talked to all the states, so all
7 the companies, you know, and I appreciate all that.

8 And so -- and so I do support the 15-day changes
9 about the -- using -- allowing up to 15 percent of the
10 compliance with carry-over credits, and then converting
11 that into a cumulative. I think that's good. It gives
12 more flexibility. I think that's -- that's fine. I think
13 the fuel cell vehicle traveling rule that you don't call a
14 traveling rule, whatever you call it now, I think is fine.
15 I don't have a strong feeling about it, but it seems fine.

16 So number four is I -- I support all of the
17 15-day changes except for one, and that's dealing with the
18 vehicle and battery durability. The change -- the
19 proposal is for 75 percent of the range to be, you know,
20 acceptable after eight years or a hundred thousand miles.
21 And I understand the motivation is to protect consumers,
22 except -- especially for the used the -- when they become
23 second used vehicles.

24 But, you know, we are requiring that the vehicles
25 all have a state of health, you know, a number in

1 the dash -- on the dashboard that will tell the consumer
2 how much degradation there is. So it's very transparent.
3 They're getting lots of information. And the drivers are
4 fully aware of the range and battery health. But what
5 happens here is by requiring it, we're real -- we are
6 increasing the cost of the vehicle. And there's a lot
7 of -- you know, different companies are saying different
8 numbers, but it seems pretty clear that they're going to
9 have to overbuild to make sure that they're in compliance.
10 And I know the staff came up with some more flexible ways
11 to make sure that the compliance was easier.

12 But at the end of the day, it is re -- increasing
13 the cost and it seems to me kind of an awkward way of
14 dealing with consumer protection. You know, like for
15 instance, if it's a 300-mile vehicle and you allow 25
16 percent degradation, it's still, what, 230 miles. If it's
17 150-mile car and you allow -- and you have 25 percent
18 degradation, you know, you're getting close to a hundred
19 miles. And it seems like its -- you know, why should they
20 be equivalent in terms of the rules that we establish.

21 For the 300-mile, it's fine. You know, it's
22 still a very usable car. It's going well and people know
23 how much it's degraded. So it seems like kind of an
24 awkward way of dealing with a -- with a -- with this
25 problem. So I conclude that, you know, at the end of the

1 day, it doesn't really -- I don't see that it really
2 benefits the used car buyers. I know that's the argument
3 that's made, but it's increasing the cost up front and,
4 you know, maybe it's helping later, but there's
5 information. So I -- it just seems to me a little
6 heavy-handed and intervention is more than is needed.
7 This is one case I think where we can back off a little
8 bit.

9 And I would note that the United Nations has
10 mediated these -- you know, an agreement among all -- you
11 know, all the different countries and it's for this 70 --
12 using 70 percent at eight years or a hundred thousand
13 miles, and we're saying 75 percent. So, you know, maybe
14 it's not a huge deal, but it seems reasonable -- I would
15 support going to 70 percent, making it consistent with,
16 you know, the UN nego -- mediated agreement and for all
17 the other reasons. Okay. So I know I talked too long on
18 that one.

19 Okay. Quick. Okay. Mercedes had a special --
20 it's a tiny thing. Mercedes had a special request to, you
21 know, that some of their vehicle -- their current vehicle
22 doesn't meet some of the software requirements. And they
23 said, you know, okay, don't get -- let us -- let us
24 certify it, but we won't get any credit. It seems
25 reasonable to me.

1 There was a lot -- a number of requests to have a
2 fixed review process -- technology review process. I
3 think that's probably not a good idea. I know the staff
4 agrees with me on this one. I think I agree with them on
5 it. They're going to be monitoring what's going on.
6 They're going to be following it. You know, staff has
7 lots of interaction with Board, so I'm comfortable with
8 that. I would say that some -- as a few suggested,
9 developing metrics that we can better use to monitor
10 what's happening.

11 And the last, and seventh one, is regarding the
12 EJ credits. So the goal of broader ZEV diffusion to
13 underserved overburdened communities is really important.
14 It's a good goal. It's an important goal. I think the
15 credit proposal that staff came up are good innovations
16 and they are innovative. But I would comment that the ACC
17 II is not really the best way to accomplish this goal.
18 And it's even subject to some legal challenges as well.

19 And we have many incentives and subsidy programs
20 in place to help these communities. And I think those are
21 going to be more effective and more important.

22 I do, however, suggest that the staff reassess
23 some of those credit numbers. So like instead of 0.1
24 credits, you know, per vehicle for one of the provision,
25 you know, maybe go back and look at the cost analysis and

1 see -- maybe go up to 0.2 credits and provide more of a
2 motivation to the companies to make sure they do use these
3 credits.

4 So overall, great job by a great staff. And I
5 would make the comment that this is arguably the most
6 important action CARB will ever take. And I know that's a
7 big statement, but I think it could -- you know, it's
8 arguably true. And it makes me proud to be a Californian.
9 It makes me proud to be a Board member. And so this is
10 really an exciting time an important time. And so this
11 whole day here, it seemed long. It was worth it.

12 Thank you.

13 CHAIR RANDOLPH: All right. Board Member
14 Takvorian.

15 BOARD MEMBER TAKVORIAN: Okay. From the
16 professor to the organizer. Here we go.

17 (Laughter.)

18 BOARD MEMBER TAKVORIAN: Thank you, Dr. Sperling.
19 So I want to thank everyone. I think it has been a long
20 day. I think it's an important day. I want to
21 particularly thank staff and the stakeholders, community
22 members, the automakers, everybody who's hung in for this
23 whole long time, years -- decades actually, as pointed
24 out.

25 So I think it's important. And all these states

1 that are participating, incredibly important. I have to
2 say though that I feel like there's a lack of clarity in a
3 certain way about what this proposal -- what this
4 regulation can do. And maybe I'm just responding a little
5 bit to some of the later comments that we got, but I just
6 think it's important that we focus on the fact that this
7 is about new cars sales and we're talking about a hundred
8 percent ZEV sales by 2035. And if I'm -- if I'm correct,
9 that means 50 percent of the cars are still going to be
10 fossil fuel by 2035. So we're not going to be a hundred
11 percent ZEV cars by 2035. And those cars I believe will
12 still be in use.

13 So nobody is going to come to your house and take
14 your car away in 2035, is that correct? Is that a correct
15 statement.

16 (Heads nodding.)

17 BOARD MEMBER TAKVORIAN: Okay. Oh, that was more
18 nods than I have ever seen ever.

19 (Laughter.)

20 BOARD MEMBER TAKVORIAN: I finally get something
21 right, right?

22 Okay. So no one is coming to your house to take
23 them away. And so I think, you know, in some ways that's
24 not good news in the sense that we're not making this
25 grand transformation, and -- by 2035. It's a huge move,

1 but it isn't a universal change.

2 So, in my mind, we need to move faster on the ZEV
3 transition to generate the secondary market, so that those
4 cars that are still in use in 2035 are those that can be
5 transitioned to people who can't afford a new car, because
6 I don't think that the equity provisions that we're
7 talking about are necessarily that everybody in the state
8 should be able to buy a new ZEV. So we need to figure out
9 what the entire system looks like.

10 And so that's why I would like to see us -- I'm
11 trying to go quickly here, but I would like to see us
12 think about the people that were here today to say how --
13 how can your family be in a ZEV? And I think the way that
14 can happen in the next 10 years is probably first in a
15 used car, basically, and an affordable car. And so how do
16 we get there?

17 And that, to me, means we've got to move the --
18 the needle, so that we're at 75 percent by 2030, because
19 that's going to require that we're generating,
20 manufacturing more of these cars at probably a less
21 affordable rate and then putting them into the secondary
22 market. But then I think we have to make the equity
23 provisions more able to be accomplished, and whether we're
24 calling them mandatory or not mandatory, I'd like us to
25 review and research how we can actually make them utilized

1 and require -- and have more assurance that they are
2 utilized.

3 And so one thing to talk about is I appreciated
4 the statement that we don't want to balloon the credits,
5 so let's not create another credit bank with the equity
6 credits. Let's say that if you implement the equity
7 provisions, then you get to use the historical credits.
8 And if you don't -- if you don't implement the equity
9 provisions, then you don't get to use the historical
10 credits.

11 So rather than creating another bucket, can we --
12 so it's a question. It's an idea that I'd love to have a
13 conversation about, that that's when you get to use the
14 credits. And I under -- I just think that maybe that's
15 simpler, so that we can motivate the automakers to
16 actually utilize them for the equity provisions. So the
17 more equity you do, the more historical credits you're
18 utilizing.

19 Just I want to lastly say that I -- I'm concerned
20 about the overall picture. And in two weeks, as Senator
21 Florez pointed out, we're going to be talking about the
22 Scoping Plan. And this is one of the centerpiece elements
23 to it. So we need to get this right. And Dr. Sperling
24 saying it's the most important thing we're going to do,
25 well, that means it's one of the most important things in

1 the Scoping Plan. So we need to set a clear direction and
2 a clear vision for this, I think.

3 And the last thing is we need to bump up equity.
4 We just -- the State just released the report on
5 reparations in the state of California. So if anybody
6 thinks we're going too fast to address racial equity,
7 you're not listening. And this is one of those places
8 where we can do it. So to me, I don't want to see us
9 saying we can wait till later and let's see if we can do
10 this in a more flexible way. I think we really need to do
11 it now and figure out our best approach. And then we have
12 an opportunity in two weeks to figure out how it
13 integrates with the whole big plan in the Scoping Plan.
14 We have those other mechanisms that we can integrate it
15 with.

16 So that's my -- those are my thoughts. And I
17 really appreciate the opportunity to -- to speak at this
18 time. And then I'm going to run and get on plan.

19 Thank you, Chair.

20 CHAIR RANDOLPH: Okay. But before you run and
21 get on a plan --

22 BOARD MEMBER TAKVORIAN: Yeah.

23 CHAIR RANDOLPH: -- I do want to ask staff to
24 maybe respond a little bit to the question you asked about
25 this -- the notion of perhaps tying the historic credits

1 to use of the EJ credits and sort of some of the kind of
2 practicalities around that, and then Dr. Pacheco-Werner is
3 going to go next.

4 DEPUTY EXECUTIVE OFFICER SEGALL: Sure. Let me
5 start that and then Anna Wong may want to speak to it as
6 well, Board Member Takvorian.

7 CHAIR RANDOLPH: And then after -- sorry, after
8 Dr. Pacheco-Werner goes, I do want to kind of make kind of
9 an overarching comment about equity that I don't want to
10 the lose.

11 So, answer, Dr. Pacheco-Werner, and then to me.

12 Okay.

13 (Laughter.)

14 DEPUTY EXECUTIVE OFFICER SEGALL: Okay. So a few
15 things. I think the general theme of assuring that folks
16 do -- do what the EJ credits are trying to assure makes a
17 lot of sense. I think figuring out the right set of ties
18 is significantly more complicated, but it is something
19 that we're already talking about and we'll keep talking
20 about. Let me give you a little flavor for that and see
21 if that's useful.

22 So I think what I'd say is, first, on historic
23 credits, it's a bit of a misnomer, right? These are
24 rewarding folks for ramping earlier before model year 26,
25 which you really want to see them do, not just in

1 California, but in the 177s. So that's more cars earlier,
2 that's less GHGs, more ZEVs. That's good.

3 Because the way the rule is set up, you don't
4 wind up complying with those overcompliance credits, you
5 would comply first with the volume of cars. The big
6 volume manufacturers are quite likely not only to accrue
7 some of those credits almost automatically, but not use
8 them for compliance, but also to invest in the EJ credits.
9 They'll have the volume of cars to invest in communities.
10 Smaller volume manufacturers, those who we want to start
11 ramping up, we want to reward and encourage them to begin
12 overcomplying with current standards, but they may not
13 initially have the volume to generate EJ credits simply
14 because they may have fewer cars to move around.

15 So what I'm saying at a high level is the folks
16 who are most likely to be investing first in disadvantaged
17 communities and using those voluntary credits may not be
18 the same people who really want to use historic credits
19 and vice versa. So that particular leveraging may not
20 connect in the way that we want it to, in terms of
21 incentivizing them.

22 That is not to say that there are not good ways
23 to tie things together and make sure folks really do
24 engage in ways that further encourage companies. And
25 we're kicking around some ideas on that in part in

1 response to this.

2 The last thing I'll say obviously is I am acutely
3 aware that there are a range of ways folks are approaching
4 equity here. We heard some of that even today, you know,
5 whether it's small business folks and others worried about
6 costs, others worried about distribution. So there's a
7 lot -- a lot to think about here. I did really clearly
8 hear the strong desire to make sure that communities on
9 the front lines really clearly benefit. The mechanics of
10 that will take some thinking about.

11 And, Anna, anything you want to on the crediting
12 system?

13 STCD ZEV MARKET ADVANCEMENT SECTION MANAGER WONG:
14 (Shakes head.)

15 DEPUTY EXECUTIVE OFFICER SEGALL: Thank you.

16 BOARD MEMBER TAKVORIAN: You want to give us a
17 hint as to what you're thinking?

18 DEPUTY EXECUTIVE OFFICER SEGALL: Well, I guess
19 I'll say this. There are different ways to track how
20 folks are behaving, where their cars are going. That may
21 be one way of tracking how well things are being complied
22 with. There may be ways to think about whether or not
23 automakers need to acquire EJ credits from others, even if
24 they cannot comply. There may be other ways to think
25 about this across the whole market that recognizes that we

1 have some complexity here, but it still encourages strong
2 investments from those who are most likely to invest,
3 while ensuring others have skin in the game, but we need
4 to think a bit more about the credit design.

5 BOARD MEMBER TAKVORIAN: Is it possible that
6 there's a niche market here for folks that would want to
7 create cars that could be more affordable and sit with
8 these EJ credits though we were -- they're not EJ credits,
9 but the EJ mechanisms?

10 DEPUTY EXECUTIVE OFFICER SEGALL: You know, it's
11 possible. And I think one of the hopes here -- there's
12 two paths to really getting cheap plentiful EVs out. You
13 know, the core one is volume, you know, just really moving
14 forward as well as we can.

15 But the challenge here, right, is if we have
16 really high overall stringency such that would react --
17 we're jamming on cost, it becomes harder to get there. So
18 one of the things we're thinking about is how do you
19 create a system in which there's a strong incentive with a
20 large enough volume of cars to begin filling that
21 particular niche. And I do think -- I mean, we've heard
22 today, there's -- there are a lot of people who would
23 really love a lower priced ZEV. You know, and I think it
24 would be foolish for OEMs not to want to sell in that
25 market. Obviously, that is in a complex arrangement with

1 the secondary market as well. Some people just want to
2 buy used, are more likely to buy used. But I do think
3 there's some potential here, and it's worth thinking
4 about.

5 VICE CHAIR BERG: Before you leave, I just want
6 to have a little bit of a reality check, so give you
7 also -- so, you know, people can't afford new ICE cars,
8 isn't that correct?

9 BOARD MEMBER TAKVORIAN: Correct.

10 VICE CHAIR BERG: So if there's this big market
11 out there, why aren't we selling more ICE cars into this
12 community? So I think we're losing a little bit of
13 reality here and we really need to address it. It feels a
14 little disingenuous to me.

15 BOARD MEMBER TAKVORIAN: Yes, I agree, which is
16 why I've been trying to figure out how you beef up the --
17 edge up the secondary market. So that's more.

18 CHAIR RANDOLPH: Yeah. Okay. Before I pass it
19 over to Dr. Pacheco-Werner, you know, I do think it's
20 important to recognize, as Dr. Sperling said, that ACC II
21 is probably of all our equity strategies, the least sort
22 of flexible, and the least sort of able to really achieve
23 what things like, you know, reorienting our incentives
24 more towards lower and middle income people as we did in
25 the funding plan do, which is working with our sister

1 agencies on the infrastructure pieces, making sure there's
2 charging in multi-family units or within a few blocks of
3 multi-family units. Helping people fund the -- not just
4 the installation of a home charger, but also if they're
5 living in older housing that needs a -- some electricity
6 upgrades, you know, assisting with that.

7 There's a lot of equity strategies we are
8 deploying and the manufacturer requirement is probably one
9 of the clunkier ones to add an equity layer to. So I just
10 really want to commend staff for being, as Dr. Sperling
11 said, innovative and creative, and even getting as far as
12 we have. But, you know, I think it's worth keeping the
13 discussion open and seeing if there's other options
14 between here and August that we can come up.

15 I'm sorry. Dr. Pacheco-Werner, go ahead.

16 BOARD MEMBER PACHECO-WERNER: You're fine. Thank
17 you.

18 I think, you know, this is a very significant
19 hearing for me. For those that don't know, I live in
20 Sanger, California, just a mile and a half away from the
21 highway. My toddler has asthma, my husband, and myself.
22 So this regulation is important and life saving for us.

23 But as I hope our other Board members heard
24 today, for rural communities, we have lots to do to make
25 this transition truly feasible for everyone.

1 Staff has heard me tell them since the beginning
2 that this is an important regulation and I know that to
3 have an equitable regulation we must continue to
4 strengthen how we think about equity credits, as more of
5 my colleagues I'm sure will continue to talk about.

6 We also need to think about how we work with our
7 State agency partners and the Legislature to make sure
8 that we are adequately funding programs that are already
9 working now to get low income rural families in the
10 vehicles that can afford -- that they can afford, rather
11 than overspending in new programs that we don't know if
12 they'll yield those same results as -- as the ones that
13 are in -- in effect now.

14 We must do some of the equitable transition by
15 centering credits and incentive investment that does a
16 balance of rapid transformation and is creating afford --
17 an affordable market. I can see the 75 percent by 2030
18 goal happening, but I can't see it if we're not making
19 move for plug-in hybrids, and if we're not thinking about
20 this credit market as something that will actually result
21 in more affordable vehicles on the road in California,
22 rather than just delaying implementation in other states.

23 I strongly believe that if we don't create a
24 credit market that is creating affordability, we're going
25 to end up in the same situation that we're in now with

1 housing, where there are many homes on the market that are
2 just out of reach for most of Californians.

3 Because my focus is affordability that centers
4 equity now, and to think about rural communities not just
5 as automatic late adopters, I think this approach will
6 also benefit the other states.

7 I do, at this time, oppose the cord requirements,
8 as they will up the price point for families that may not
9 have access to -- for charging at home now, let alone
10 invest in Level 2 charger upgrades to their home. I think
11 if staff want to keep that, I would really encourage them,
12 which I really see their -- I really see your reasoning
13 for that, but I would -- I would like to -- rather than
14 getting that out the gate, I'd love to see a phase-in
15 approach that is actually implementing that when we know
16 that costs are going to start going down, because there's
17 more market penetration for ZEVs.

18 And then I would also like to see the same type
19 of phase-in with the battery durability, again to think
20 about it from a price point perspective, where we are
21 making the -- the regulation the standard that is going to
22 be applied worldwide now, and then the phase-in approach,
23 because I do believe in us continuing to be leaders, but
24 once -- once the rigor is not going to affect the price
25 point as much as it is today.

1 Again, I would love to see ZEVs in my community
2 in every single home. I just want to make sure that
3 the -- the stringency of the regulation that we have now
4 doesn't result in a -- in a market that's out of reach for
5 my neighbors.

6 Thank you.

7 CHAIR RANDOLPH: Could I ask a follow-up question
8 to staff following up on -- from what Dr. Pacheco-Werner
9 said and Dr. Sperling said? And this kind of relates to
10 the interaction between the durability requirement and the
11 state of health requirement. Because sort of the way Dr.
12 Sperling teed it up is if the customer knows what they're
13 buying, you know, do we really need that higher
14 percentage, given that we know that it could result in
15 higher costs in the earlier years? So is this kind of
16 phase-in approach, the more -- even more gradual than
17 proposed in the 15-day changes approach that Dr.
18 Pacheco-Werner mentioned, something we should consider
19 exploring?

20 And if any other Board members have thoughts, I'd
21 be interested to hear as well.

22 ECCD VEHICLE PROGRAM SPECIALIST McCARTHY: Yeah,
23 sure I can try to respond to some of that. For sure, the
24 state of health is -- is relevant, right? I mean, we did
25 go after that specifically to target the most expensive

1 component on the car, the battery, and to sort of unlock
2 some of the mystery behind it, so consumers, whether the
3 first owner of the car, whether they're shopping for a
4 used cars, between competing used cars, have some
5 transparency about the health of the battery and not have
6 this cloud looking in the back of their mind. Am I going
7 to be due for a big repair cost coming up soon.

8 So absolutely that helps. We think it could
9 affect used car prices, which affects, you know, residual
10 prices, which affects new car lease prices. It -- you
11 have this confidence in what you're buying as opposed to
12 this uncertainty.

13 The durability expect -- the requirement is
14 slightly different thought, right? This is -- that is
15 about, you know, telling the consumer on a individual car
16 what they're getting -- what they're getting for their
17 money. The durability is really about trying to protect
18 that these cars will be designed to be high quality used
19 cars as well. And we don't quite have the parallel in
20 gasoline, other than we do have a durability requirement
21 on the emission controls. Those emission controls need to
22 be designed for 15 years and 150,000 miles in gasoline.
23 And that's because during any point in that time in that
24 life, we want that thing emitting below the standards it
25 was designed to me, right. That's the durability.

1 So there's a little bit of a parallel, but the
2 idea is protecting for minimum range, just trying to
3 ensure that is a high quality used car. You're right, you
4 can let the market sort this out. We can have some have
5 aggressive deterioration, others that don't, let people
6 choose. Those car -- used cars will have a lot less
7 value, but we need a high inventory, a high supply of
8 quality used cars to get in the market, so we don't
9 encourage people to hold on to their gasoline cars any
10 longer than they normally would be today, right?

11 As others have pointed out, we're affecting new
12 car sales. We're still going to be relying on the normal
13 sort of attrition of cars and turnover of cars. We
14 don't -- we're not forcing a fleet turnover. We're not
15 forcing you to retire cars, or stopping you from
16 registering those cars.

17 So our motivation there was to try to make sure
18 the typical car coming into that used you car pipeline has
19 got a good amount of range left, and that's not going to
20 be a reason for people to avoid making that transition to
21 an electric used car.

22 CHAIR RANDOLPH: Okay. That's helpful.

23 Any other questions, comments?

24 Board Member Riordan.

25 BOARD MEMBER RIORDAN: Yeah. Just -- just -- I

1 don't have my mic on. Okay.

2 In your conversations with the manufacturers,
3 what increase would that mean on the durability side?

4 CHAIR RANDOLPH: And could I -- I just want to
5 make sure when you answer that question, we probably
6 should talk about which -- like the -- staff originally
7 proposed 80 percent at a hundred thousand miles, eight
8 years

9 ECCD VEHICLE PROGRAM SPECIALIST McCARTHY: Ten
10 years.

11 CHAIR RANDOLPH: Ten hears.

12 ECCD VEHICLE PROGRAM SPECIALIST McCARTHY: Ten
13 years, 150,00 miles.

14 CHAIR RANDOLPH: Okay. And then the 15-day
15 change you have proposed is?

16 ECCD VEHICLE PROGRAM SPECIALIST McCARTHY:
17 Bringing it down from 80 percent to 75 percent.

18 CHAIR RANDOLPH: Seventy-five percent at?

19 ECCD VEHICLE PROGRAM SPECIALIST McCARTHY: Still
20 at the 10 year 150,00 mile point.

21 CHAIR RANDOLPH: Okay. And then the OEMs are
22 advocating for?

23 ECCD VEHICLE PROGRAM SPECIALIST McCARTHY:
24 Seventy percent at eight years, 100,000 miles.

25 CHAIR RANDOLPH: Okay. All right. I just wanted

1 to make sure we all knew what we were talking about.

2 Now, you any answer the question.

3 BOARD MEMBER RIORDAN: Okay.

4 ECCD VEHICLE PROGRAM SPECIALIST McCARTHY: Sorry,
5 I lost my train of thought there.

6 (Laughter.)

7 BOARD MEMBER RIORDAN: Well, no, it's -- it's --
8 it's how much will this cost? What -- what -- what are we
9 talking about? Because if we listen to Dr. Sperling,
10 there's a --

11 ECCD VEHICLE PROGRAM SPECIALIST McCARTHY: Sure.

12 BOARD MEMBER RIORDAN: -- cost and I want to know
13 what you hear on your side of talking to people

14 ECCD VEHICLE PROGRAM SPECIALIST McCARTHY: We --
15 we talked a lot. You know, we talked to nearly every
16 manufacturer about they're at.

17 BOARD MEMBER RIORDAN: Right.

18 ECCD VEHICLE PROGRAM SPECIALIST McCARTHY: There
19 is some spread, but believe it or not, there's not a huge
20 spread in where they are, designing their products to
21 be -- they're -- you know, they're still talking to the
22 same batter suppliers, a lot of them are using the same
23 battery suppliers. They're all in -- for the most part,
24 they're in a very similar sort of ballpark with some
25 uncertainty about what's going to happen in use.

1 When we look at that trajectory of where they
2 expect their average cars to be, it is above 80 percent,
3 but it's right there. It's right near 80 percent. Some
4 think some of their worst performers will be below that,
5 some will be above that. The majority are in that area.

6 There are a few that are higher than that. Tesla
7 had a public sustainability report and they showed their
8 Model S is staying well above 80 percent out to three,
9 four, five hundred thousand miles.

10 Toyota on their website with -- they're late to
11 the game. Come brand new with their EV and they are
12 bragging that they are going to maintain 90 percent of
13 their range.

14 BOARD MEMBER RIORDAN: But they're making their
15 batteries too. It's probably not accessible to other
16 manufacturers, right or not?

17 ECCD VEHICLE PROGRAM SPECIALIST McCARTHY: Well,
18 you know, they all have some slight partnerships with
19 different batter companies.

20 BOARD MEMBER RIORDAN: Oh, okay.

21 ECCD VEHICLE PROGRAM SPECIALIST McCARTHY: So
22 it's a complicated relationship, but I most of them plan
23 right now to be above that 80 percent --

24 BOARD MEMBER RIORDAN: Okay.

25 ECCD VEHICLE PROGRAM SPECIALIST McCARTHY: -- or

1 near that 80 percent.

2 BOARD MEMBER RIORDAN: Um-hmm.

3 ECCD VEHICLE PROGRAM SPECIALIST McCARTHY: But
4 planning to be there and then having a regulation that
5 holds you accountable to there --

6 BOARD MEMBER RIORDAN: Um-hmm.

7 ECCD VEHICLE PROGRAM SPECIALIST McCARTHY: -- is
8 a -- is a higher level of -- more than a healthy level of
9 fear, perhaps.

10 BOARD MEMBER RIORDAN: Right.

11 CHAIR RANDOLPH: Well, and the --

12 BOARD MEMBER RIORDAN: What's the cost? I'm just
13 interested in the cost of that 80.

14 ECCD VEHICLE PROGRAM SPECIALIST McCARTHY: Right.
15 So we costed for it in our rulemaking by not -- by our
16 future battery projection costs, we do not -- we did not
17 go to the -- some of the bottom dollar most optimistic
18 projections that people have, because they can make some
19 decisions in the trade-off of durability and cost. So you
20 can't argue that it's -- the batteries are going to go the
21 lowest cost in the world and have no loss of durability or
22 even better durability than they have today.

23 So part of what we did was costing in that
24 trajectory of being a little more moderate. The second
25 thing we did was when we designed costs for a battery

1 vehicle, and how much it would convert gasoline to a
2 battery vehicle, we had to design the size of the battery
3 to meet a 300-mile car, we held back a bigger chunk of
4 that battery than what most manufacturers hold back today.

5 What that means is we costed for maybe a
6 100-kilowatt hour battery pack, but we'd only give them
7 access -- the driver access to 92 percent of it. So we'd
8 hold back a little bit. When you do that, it protects the
9 battery, so it doesn't deteriorate as fast, because you
10 don't charge it to the upper peaks and lower peaks.

11 And so we costed in that aspect of our -- so all
12 of the costs in this proposal about when we hit cost
13 parity and all that stuff reflect these battery packs that
14 are a little bit conservative in that. So other
15 manufacturers right now, current electric vehicles, they
16 hold back much less than that in the -- in the reserve.

17 And so we -- it's in our cost. Now, if want to
18 tease out how much that translates to, you know, that's
19 harder to tease out on those price trajectories where --
20 what would have been -- you know how -- we could have gone
21 a little bit lower and -- at, you know, \$48 a kilowatt
22 hour instead of \$50 or \$52 a kilowatt hour in that time
23 frame. And is that 5 kilowatts of battery back we held
24 back?

25 It's complicated. It's not something you can

1 just throw an extra \$2,000 at and call it good. It really
2 is in the design. And again --

3 CHAIR RANDOLPH: Well, isn't -- I mean, isn't
4 part of the issue though is, you know, you can assign a
5 cost per kilowatt hour, but it's also the risk profile of
6 the company, right? It's sort of -- and what they
7 think -- where they think their product is, and then their
8 concern about we are going to identify as compliance with
9 the standard, and then what -- their concerns about
10 potential enforcement might be, right?

11 ECCD VEHICLE PROGRAM SPECIALIST McCARTHY: Yes.
12 And how well their -- their -- their simulated aging and
13 deterioration --

14 CHAIR RANDOLPH: Right.

15 ECCD VEHICLE PROGRAM SPECIALIST McCARTHY:
16 -- project -- will match what actually happens
17 when you put it in a car and Craig goes and drives the car
18 like he drives it, and Edie drives it like she drives it,
19 and they park in different places, and they charge in
20 different places, and --

21 CHAIR RANDOLPH: Right, because you're always aware
22 going to have these edge cases of how people are using
23 their batteries. And then you're going to have sort of
24 the Broad kind of typical use that we might be analyzing
25 in our analysis of whether or not they're compliant with

1 the durability, is that correct?

2 ECCD VEHICLE PROGRAM SPECIALIST McCARTHY: Yeah.
3 And in gasoline, you know, we -- we started with 25,000
4 mile durability standards way back in the day, right? And
5 slowly as people got more time, and experience, and the
6 components got better, we moved to 50,000, and 100,000 and
7 125 -- 150,000 mile durability. We moved up over time.
8 You know, and its -- manufacturers gained experience and
9 use of what's really happening. They got -- they modified
10 their projections of how to age stuff and simulate the
11 aging.

12 So we are -- the world is smarter now in how to
13 design for those and how things are going to be used, but
14 we are still early in the learning of what's going to
15 happen to a battery after 10 years on the road or 12 years
16 on the road. And so that's got them a little bit more
17 nervous or conservative about how well they are able to
18 predict what's going to happen.

19 CHAIR RANDOLPH: Right. Right. And just sort of
20 recognizing that there's a lot of kind of iteration that
21 is -- you know, and some conversations going on about how
22 best to analyze the durability.

23 And then also, you know, recognizing that there
24 is some enforcement discretion there, right, about, you
25 know, when you actually pull the big old recall trigger.

1 ECCD VEHICLE PROGRAM SPECIALIST McCARTHY: Right.
2 So we -- we have softened the actual trigger. But even
3 once you hit the trigger, like all of our enforcement
4 actions, you know, you're subject to enforcement up to
5 recall. So that's how all of our stuff is worded. You
6 know, the vast majority of time, we end up in solutions
7 with the manufacturer that don't involve recall. And, in
8 fact, in 40 years, I think in the light-duty sector, we've
9 had twice where we've gone to the mat and ordered a
10 recall, in the late 80s with GM, and in the late 1990s
11 with those terrible Toyota OBD systems.

12 But that's only twice in 40 years that we've gone
13 to the mat. We disagreed with the manufacturer. We have
14 not been able to enter into a settlement agreement where
15 we agree on what the right resolution is and had to order
16 a recall.

17 So that speaks to me to a little bit of the
18 checks and balance and the reasonableness that we have had
19 in the past 40 years about enforcement and finding a
20 mutually agreeable solution that is not one percent below
21 the requirement, that's it, out the door, recall it, and
22 it's a billion dollars of costs. You know, there is --
23 there is a long history of trying to work with the
24 manufacturers to find an appropriate resolution based on
25 the situation at hand.

1 VICE CHAIR BERG: And so since we're talking
2 about durability, could you speak to what a few people
3 testified to as the two-way, grid to vehicle, vehicle to
4 grid, and the impact of that on the battery?

5 ECCD VEHICLE PROGRAM SPECIALIST McCARTHY: So for
6 sure we and the manufacturers don't completely know what's
7 going to happen, how much that is going to happen, how
8 much -- and how much impact it's going to have. So what
9 we are doing, as part of this proposal, is tracking how
10 much total energy on an individual car is pushed out of
11 the car into the grid, or to the home, or to power tools,
12 or whatever. So we're tracking that on -- we'll -- the
13 data will be available on every -- any vehicle we plug
14 into to test.

15 So the first protection we're putting in there
16 for the manufacturers is that when we go to do an
17 enforcement test or a sample of their cars, any vehicle
18 that has a higher or an excessive amount of energy that
19 was used that way, we'll just throw it out of our sample
20 for now.

21 VICE CHAIR BERG: Okay.

22 ECCD VEHICLE PROGRAM SPECIALIST McCARTHY: And
23 we'll -- we won't -- we call it -- kind of call that an
24 edge case and throw it out.

25 VICE CHAIR BERG: So the last thing on

1 durability, so we're staying kind of in sync, what I
2 really struggle with though is why did the UN, including
3 EPA and CARB sitting at the table, come up with 70
4 percent, and everybody -- we've had many, many people
5 testify about how Norway is ahead, how Europe is ahead,
6 they seem to be selling more cars, having more things on
7 the road, and -- but we're coming up with a different
8 standard? Help me with that.

9 ECCD VEHICLE PROGRAM SPECIALIST McCARTHY: So I
10 have -- this is not the first time we've participated in
11 this -- one of these UN global technical regulation ideas.
12 And the idea is to create kind of a template that regions
13 can then use to adopt a regulation. For the record, the
14 U.S. has never adopted a GTR into of our -- into an actual
15 regional regulation.

16 It is a good concept. It has been hard to
17 implement to get something that all eight regions can
18 agree on. They've tried this in crash testing and been
19 unsuccessful to ever harmonize safety standards in Europe,
20 and China, and the U.S. Tried it in the emission world
21 and it turns out, guess what, we have different air
22 quality problems than Europe has, than China has, and the
23 same solutions don't always work.

24 So the GTR process involves manufacture -- the
25 car manufacturers themselves and representatives of

1 different regional regulatory bodies. It -- it, by
2 default, because they -- you're in a group of everybody,
3 you don't see confidential information from anybody,
4 because you're only meeting in public groups, and you try
5 to reach a consensus and take a framework that everybody
6 has agreed to. If you are in a room and going to reach
7 consensus with every manufacturer and every regulatory
8 body, you tend to end up at a lower common denominator
9 that everybody can live with.

10 And that is just the nature of that process they
11 set. It's not an actual regulation that is enforceable on
12 anybody. It is literally like a template that you could
13 download from the website and you then, as the regulatory
14 body of Singapore could try to turn into a regulation for
15 your area.

16 VICE CHAIR BERG: Okay. Thank you. I'll wait
17 the rest of my turn. Thanks. I have a couple of others
18 questions.

19 (Laughter.)

20 CHAIR RANDOLPH: Okay. Mr. Eisenhut.

21 BOARD MEMBER EISENHUT: Thank you, Chair.

22 I am generally supportive of the staff
23 recommendation, but -- and -- and I'm a little bit
24 apprehensive about pulling on a thread, because I -- this
25 is so well and carefully crafted, that I'm hesitant. But

1 we're having what I think is really an engineering
2 discussion about a perceptual issue. And I -- I go back
3 to the introduction of Tesla, more or less 10 years ago,
4 and I kind of recall that Tesla warrantied their
5 batteries, I believe at that time, for a period of 10
6 years, if I remember correctly.

7 And the conversation around that warranty was
8 not -- the story that I was -- it was shared with me was
9 that someone asked Musk if he thought the batteries would
10 last that long, and he said I have no idea. But that's
11 what we need to do to develop consumer acceptance, because
12 there's uncertainty about this new technology and there's
13 uncertainty about consumers' ability to recharge those
14 batteries and their lifetime.

15 And that's what we have to do. And I -- I think
16 we're in a -- as we are promoting the robust adoption of a
17 technology that currently is only accepted by 16 percent
18 of our consumers, and we want to get to a hundred percent,
19 we have to -- we have to do what we need to do to develop
20 and enhance that consumer confidence, both with regard to
21 battery life and with regard to the ability to seamlessly,
22 or with a minimum of turmoil, to get charged to get back
23 and forth from home to work. So I think it's our
24 responsibility to do -- to provide that certainty. So
25 that -- those are my comments about that portion.

1 The other, I'm -- I'm -- I'm a little less than
2 clear on credits. And that's a very complex portfolio.
3 And I -- and I want to clarify one thing before I go on,
4 and that is that I believe the degradation or the --
5 essentially, the halving of the credits applies only to
6 aged credits and not to accumulated credits. Am I -- am I
7 correct in that assumption? When we said under the --
8 under the 15-day changes, we were going to essentially
9 divide the allowable credits by half. Those are aged
10 credits, is that correct?

11 (Head nods.)

12 BOARD MEMBER EISENHUT: I'm getting a nod.

13 STCD ZEV MARKET ADVANCEMENT SECTION MANAGER WONG:

14 If what you mean by aged is earned under a --

15 BOARD MEMBER EISENHUT: Well, that's the
16 question.

17 STCD ZEV MARKET ADVANCEMENT SECTION MANAGER WONG:

18 Okay. So ACC I goes through 2025 model year.

19 BOARD MEMBER EISENHUT: Okay.

20 STCD ZEV MARKET ADVANCEMENT SECTION MANAGER WONG:

21 So it's credits earned up through 2025 model year
22 and overcompliance with the ZEV regulation up through 2025
23 model year.

24 BOARD MEMBER EISENHUT: Okay. I think I've got
25 that.

1 STCD ZEV MARKET ADVANCEMENT SECTION MANAGER WONG:

2 Okay.

3 BOARD MEMBER EISENHUT: And if I'm looking at --
4 at the graphs correctly, the credits allow, and more
5 particularly in the early years, a buffer of give to seven
6 percent, depending on who's doing the calculation and the
7 use -- the assumptions that go into the use of those
8 credits.

9 And if I'm reading the graph correctly, the
10 discrepancy in -- in 30 is about -- is about -- what we're
11 projecting currently is about a 70 percent market
12 penetration as opposed to the 75 that's been discussed.
13 And -- and part of that difference, I just -- I'm not
14 expressing this well, but I -- I just think that the use
15 of credits provides too much slack in the system, with the
16 exception -- and I hesi -- I'm -- I want to emphasize
17 this -- of the credits that are accumulated in equity
18 communities.

19 And I'll make a side-note here. And I think we
20 need to carefully define equity communities, otherwise
21 we're going to have the largest dealer in the state will
22 be located in Raisin City. And we -- we need to make sure
23 that when we say equity communities, we're talking about
24 equity people and not -- and that we deliver what we
25 intend to deliver to those folks and not to that

1 geography. Otherwise, we're going to have reverse leakage
2 in the way people shop for cars. So that's just a
3 side-note.

4 But I would be comfortable when we see this
5 again, if there were some -- and I think this is with --
6 consistent with Dr. Sperling's comments, if there were
7 enhanced credits that were achieved by equity community
8 purchasers, and that those credits maintained their
9 viability. And I think this goes -- I think, and Diane is
10 not here to offer an opinion on this, but I think this
11 takes us in part in a direction that she's attempting to
12 go. And I would also be comfortable if there were fewer
13 credits that accrued to manufacturers, and I -- I'm -- I
14 don't know what that would look like, but I just throw
15 that out there for discussion.

16 Thank you. Those are my comments.

17 CHAIR RANDOLPH: Can I ask a clarifying question?
18 Because as I understand the reason why historic credits is
19 a misnomer is because some of those credits have yet to be
20 earned, because they are 2025 -- up to 2025 model year,
21 right? And that under the original proposal -- well, I
22 shouldn't phrase it that way. I'm going to ask you, under
23 the original proposal, how did you treat those credits in
24 terms of their use? I may be mixing concepts here, but
25 I'm getting to this whole 15 percent overall cap versus

1 the early years. So can you walk us through that really
2 quickly.

3 STCD ZEV MARKET ADVANCEMENT SECTION MANAGER WONG:

4 Yeah. I mean, you -- you just did a great job.
5 But I will say that how -- okay, we first count what
6 happens in the model career. So in 2026 model year, we
7 look at how many vehicles that you made. And if you have
8 met your requirement, we stop counting and we don't want
9 your money anymore, and you can go ahead and bank that and
10 that's it.

11 That's it. You don't get to go back and say, oh,
12 wait, but I had some historical credits to us or anything
13 like that. If you have made enough to fulfill the
14 requirement with real vehicles, then we stop counting.
15 And that is a different approach than we've ever used in
16 the ZEV regulation, because we used to just take it from
17 the bottom of your bank balance. You just add in credits
18 and spend from the bottom, and you would just fill in your
19 requirement with a number of credits, so there's a
20 difference here.

21 CHAIR RANDOLPH: Wait. Yeah, explain that,
22 because are you saying under the old rule if you had say
23 10 credits, and you had a 100 credit -- or 100 vehicle
24 requirement and you had 10 vehicle credits sitting in your
25 bank, we would say, you have complied with 10 percent so

1 far. You only need to comply fly --

2 STCD ZEV MARKET ADVANCEMENT SECTION MANAGER WONG:

3 That's right.

4 CHAIR RANDOLPH: -- with 90 percent, so that's

5 how you plan for your --

6 STCD ZEV MARKET ADVANCEMENT SECTION MANAGER WONG:

7 That's right, in the old rule.

8 CHAIR RANDOLPH: In the old days. Now in the new

9 days --

10 STCD ZEV MARKET ADVANCEMENT SECTION MANAGER WONG:

11 Yes. In the new days, Tesla will never be able

12 to use a historical credit. They make a hundred percent

13 ZEVs. They'll never be able to use a historical credit

14 ever, because we'll never let them count them. It will

15 never go against an obligation that they don't have,

16 because they've fulfilled it with real vehicles. That's

17 like an extreme example.

18 CHAIR RANDOLPH: Okay.

19 STCD ZEV MARKET ADVANCEMENT SECTION MANAGER WONG:

20 But you can then --

21 CHAIR RANDOLPH: But let's say how would a

22 regular OEM.

23 STCD ZEV MARKET ADVANCEMENT SECTION MANAGER WONG:

24 If GM were to make 40 --

25 CHAIR RANDOLPH: I wasn't -- I'm not going to

1 have you name names, but go ahead.

2 STCD ZEV MARKET ADVANCEMENT SECTION MANAGER WONG:

3 All right. Okay. If Craig -- Craig Segall's Car
4 Company --

5 DEPUTY EXECUTIVE OFFICER SEGALL: I do not have
6 this problem.

7 (Laughter.)

8 STCD ZEV MARKET ADVANCEMENT SECTION MANAGER WONG:

9 If Segall, Incorporated makes 40 percent in 2026,
10 they get to count 35 percent towards -- that's -- that
11 goes towards their bill. They get to bank 5 percent for
12 use in a -- in a future year or they can pool those and
13 use those in other states where they might need them.
14 That's -- that's it for a regular totally fictional car
15 company.

16 (Laughter.)

17 CHAIR RANDOLPH: Got it. Okay. That -- that
18 helps. So -- so now, if you have your 2025 and earlier
19 credits, there is a cap on using them. So let's talk
20 about that one more time really quick.

21 STCD ZEV MARKET ADVANCEMENT SECTION MANAGER WONG:

22 Okay. So if you have come up short, you've only
23 made 30 percent, what -- not Segall, Incorporated. Now
24 we're at Hebert. Hebert, Incorporated they only made 30
25 percent in 2026. I know. And she's, you know, head of

1 ECCD, what does she do.

2 (Laughter.)

3 STCD ZEV MARKET ADVANCEMENT SECTION MANAGER WONG:

4 Anyway.

5 BOARD MEMBER KRACOV: She only sells them in
6 Riverside.

7 (Laughter.)

8 STCD ZEV MARKET ADVANCEMENT SECTION MANAGER WONG:

9 That's right. There's the whole thing. Okay.

10 So 30 percent. So now she has a 5 percent part of her --
11 her bucket that she needs to fulfill. So now she has a
12 couple of options. She could --

13 (Laughter.)

14 STCD ZEV MARKET ADVANCEMENT SECTION MANAGER WONG:

15 Now, she can meet -- I don't know what 15 percent
16 of 30 is. Somebody is going to have to do the math for
17 me, because I can't do it on the spot. But she could
18 fulfill that gap with those historical credits in that
19 case, because in that year she didn't make enough --
20 enough vehicles in -- in real time for that year. She
21 also could fulfill those with pooled credits from a
22 different state. If she overcomplied in Vermont, she
23 could bring some over and put those in to fill that gap.
24 There's various ways that we built in, but it's only in
25 cases where they've failed to make enough vehicles. It

1 still helps them with compliance without making them carry
2 a deficit.

3 CHAIR RANDOLPH: Or she could use EJ credits.

4 STCD ZEV MARKET ADVANCEMENT SECTION MANAGER WONG:
5 She could all -- she could -- she could use EJ
6 credits. That would be an option.

7 CHAIR RANDOLPH: Okay. So given all that, I'm
8 still confused about what my colleague Mr. Eisenhut is
9 proposing.

10 BOARD MEMBER EISENHUT: It was an observation.
11 Not a proposal.

12 (Laughter.)

13 CHAIR RANDOLPH: Okay.

14 BOARD MEMBER EISENHUT: But the observation was
15 that we enhance the credits that could be achieved in
16 equity communities.

17 CHAIR RANDOLPH: Okay. Make that more valuable,
18 in other words.

19 BOARD MEMBER EISENHUT: Yes.

20 BOARD MEMBER BALMES: Chair Randolph, could I
21 just make one comment.

22 CHAIR RANDOLPH: Dr. Balmes.

23 BOARD MEMBER BALMES: So given how complex the
24 whole credit situation is -- and thank you, Anna, for
25 walking us through that and for the clarifying questions

1 from Chair Randolph and Mr. Eisenhut. Do we have enough
2 knowledge - and I think the answer is probably no - to
3 really project, you know, whether we're going -- whether
4 these credit flexibilities will impact the ZEV sales we
5 expect in like 2026, 2027 the early years? Because I'm
6 worried that we're not going to get the new ZEVs that, you
7 know, we would like to have.

8 STCD ZEV MARKET ADVANCEMENT SECTION MANAGER WONG:

9 This has to do with how manufacturers approach
10 compliance. Manufacturers don't make plans to not comply
11 with regulations. They just don't. They come up against
12 market barriers, and supply constraints, and what they
13 face today in the new car market that we're all, you know,
14 kind of suffering through with them as the new car market
15 kind of stumbles around. But manufacturers plan to
16 comply.

17 Now, that does raise -- you know, in this case,
18 it will raise the cost of new cars, but they will find a
19 way to comply. In some cases, they may run short. They
20 may fall short. They may not get that battery supply --
21 battery contract in place fast enough. They may have to
22 make a deal with another manufacturer. They may --
23 they'll figure out a way. But sometimes part of that
24 compliance means I've got to pull from my historical
25 credit bank. And what that -- again, back to that

1 historical credit bank, that just means they made them
2 earlier, or in, you know, another model year in a time
3 when they -- when they could bank those credits.

4 So it's -- it's more of philosophy of how you see
5 a manufacturer complying. Some people just think they --
6 they're not -- they're planning to not comply. But in all
7 of our years of experience, I -- I don't see manufacturers
8 making plans to not comply. It's just so rare that that
9 actually happens. They are looking for ways to comply and
10 to be on a compliant path. And so that is what -- it's an
11 option to them, but an option that I don't think a lot of
12 them, especially in California, will take.

13 Now, the Section 177 states, they're just -- it's
14 just a different story. And we're looking for ways for
15 manufacturers to be compliant in those states, but for
16 those states to be able still follow along with
17 California's regulation, just like Dr. Sperling said.

18 DEPUTY EXECUTIVE OFFICER SEGALL: And just to
19 make one other observation, Dr. Balmes. They're really
20 cars. So what Anna is talking about is time shifting
21 somewhat. But it is in general, and this is how I see it
22 at least, a really good thing, especially in the states
23 that choose to follow our rules, for folks to begin
24 building up that market well before '26.

25 So to the degree that helps buffer weird years --

1 sometimes there's like a little pandemic -- that can be a
2 good thing because it real cars that happens sooner.

3 CHAIR RANDOLPH: Yeah. I think that's a useful
4 point to reiterate, right, that the credits are cars that
5 somebody build, and, you know, they've been sort of
6 tracked and valued, and they represent actual vehicles on
7 the road.

8 Okay. Who would like to go next?

9 Oh, we also have David Florez, who is going to
10 say a few words for Board -- Supervisor Vargas who is
11 unable to attend today. But I will -- let's do --

12 BOARD MEMBER BALMES: Could I just finish then
13 quickly?

14 CHAIR RANDOLPH: Yes.

15 BOARD MEMBER BALMES: I was trying to jump in on
16 the credit discussion, but I just have a couple other
17 points. So I realize -- I mean, I understand the staff's
18 plan for the 70 percent sales mandate by 2030, or
19 thereabouts, and -- but we've heard a lot of testimony
20 about 75 percent. Dr. Sperling said he'd be in favor of
21 it, if it wasn't for the 177 states. You know, I
22 understood that point. Is it at least -- I would feel
23 better when we vote on this in August, if we've kind of --
24 if staff could show us, you know, the -- sort of the cost
25 benefits of 75 percent versus 70 percent, 2030. Just --

1 it would just make it easier for me to, you know, make
2 that vote.

3 And then on the equity credits, what I understand
4 Board Member Takvorian, you know, wanted to limit use of
5 historic credits only for equity purposes. I'm not even
6 sure that would be legal. You know, I would look to --
7 but I do think I would like to see as strong of an equity
8 focus as possible, which I think all of us really want to
9 see. So I would just hope that, again, before August, we
10 think through how we can have the strongest possible
11 equity provisions without totally stirring up things with
12 the 177 states, because, you know, they -- they have
13 lobbied me directly, the 177 states, about how they
14 support the equity goals, but they're having enough time
15 selling cars in those states without those provisions.

16 But on the other hand, I think certainly for
17 California, I would like to see as strong of an equity
18 provision as possible. So I just -- if staff could sort
19 of think through that and present us with, you know, the
20 pluses and minuses, I would appreciate that.

21 And I will just say that I've been -- as Dr.
22 Sperling said, I think you've done a great job at trying
23 to thread the needle between getting cars out there, but
24 also trying to, you know, make them as affordable as
25 possible. And while I think you've done a balancing act,

1 I would lean towards trying to reduce costs.

2 I think that Eileen Tutt's point that price is
3 the biggest predictor a buying ZEVs, whether they're used
4 or not. So I don't think we should have the durability
5 standards, and the cable, and the charger is too -- too
6 stringent, because I think drives up price. I think it --
7 those are all worthy goals, but I think driving up price
8 is a problem, if we really want to, you know, enhance the
9 market, which we really want to do.

10 So I would be in favor of like the UN 70 percent
11 durability rather than 75 percent, just off -- I'm not --
12 I'm open-minded, but, you know, that's where I am.

13 Thank you.

14 CHAIR RANDOLPH: Yes. Board Member Hurt.

15 BOARD MEMBER HURT: Yeah, just real quick, if I
16 could ask staff, what markers or metrics are we using to
17 evaluate equity? Everyone keeps using this word equity.
18 It's still not defined. What does it mean? How are we
19 going to follow back up to see whether this was a grand
20 regulation that supported environmental justice values?
21 Could anybody speak to that?

22 DEPUTY EXECUTIVE OFFICER SEGALL: Let me start.
23 I mean, part of the challenge, as you can tell from this
24 discussion, is there are multiple equity goals, not all of
25 which point the same way, right? So you've heard a few of

1 them. And it's the balancing act that was just being
2 discussed.

3 You want a high volume of ZEVs, the core, that's
4 what you need for public health. That's an equity goal
5 right there. You want a vibrant used vehicle market and
6 cars that last. Because to Vice Chair Berg's point, you
7 know, for all that, I -- I do hope there's a niche for
8 cheap new ZEVs for some communities. Most people by used.

9 So you need durable and reasonably priced used
10 cars. That's part of the battery balance. And then you
11 want to see some of these ZEVs going more directly to
12 disadvantaged communities. That's a third metric. That's
13 what the credits are doing. These goals all cut in
14 slightly different ways. That's why one has to balance
15 them. So we will know, as we implement, what is the
16 volume, what is the price, how durable are they in the
17 used car market especially, and how are they distributed,
18 you know, across communities?

19 And each of those pieces are in the regulation.
20 The challenge -- you know, and this is really a challenge,
21 is trying to hit all those marks at once, while also
22 holding all the other states that want to adopt these
23 rules.

24 BOARD MEMBER HURT: And just real quick, I mean,
25 this is the 15-day proposal.

1 (Laughter.)

2 BOARD MEMBER HURT: There's not equity in this
3 for community members to understand. And so I really
4 appreciated the Chair's questions around what -- what are
5 these changes, and how do they affect people, and how do
6 we define equity? And I would just suggest next time,
7 there's some executive summary of all these things for the
8 people in the community to understand what it is we're
9 really talking about. Oh, and us too. Although, I'll
10 read all of this.

11 Thanks.

12 (Laughter.)

13 CHAIR RANDOLPH: Okay. Is -- I'm going to ask
14 Katie, is David Flores on the line? And then I'll go to
15 you Mr. De La Torre.

16 BOARD CLERK ESTABROOK: Mr. Flores, I've given
17 you access to unmute.

18 Oh, there go.

19 DAVID FLORES: Great. Thank you very much. Yes.
20 This is David Flores reading comments for San Diego County
21 Supervisor Nora Vargas.

22 "Dear, Chair and honorable Board members,
23 unfortunately, I am unable to be with you today
24 as the Board considers ACC II, which I believe is
25 one of the most critical opportunities we have to

1 ensure an equitable and accelerated transition
2 from combustion vehicles to non-polluting ones.
3 As a member of the San Diego Board of
4 Supervisors, I represent approximately 635,000
5 county residents. And as a member of the San
6 Diego APCD, I take seriously my position on this
7 Board.

8 "I write this letter to be publicly read into
9 the record to respectfully ensure the residents I
10 represent that they have their voices heard by
11 the public, CARB staff, and my colleagues. In
12 San Diego County, as in the rest of our state, we
13 have a serious problem, due to the impact caused
14 by motor vehicles, particularly in frontline
15 communities adjacent to freeways and other
16 emission sources. Such is the case for the San
17 Diego portside EJ community and the international
18 border EJ community.

19 "I also want to share that as Chair of the
20 APCD, we are doing what we can to reduce
21 stationary source pollution, but addressing the
22 mobile source impact is just as important.

23 "Additionally, the County of San Diego is
24 advancing a regional decarbonization framework
25 that will also inform future policy direction for

1 action in different sectors. I want to thank my
2 Board colleagues and our CARB staff for their
3 dedication to this rulemaking and to everyone who
4 has suggested ways to improve the rule by
5 submitting letters, the thousands of residents
6 who sent petitions, and the equity, environmental
7 health, labor, and business groups that have
8 worked diligently on this rule for nearly two
9 years.

10 "I also want to thank staff for the time and
11 effort they put towards meeting with all
12 stakeholders to understand the impacts and the
13 industry. I look forward to continuing this
14 important Board discussion to ensure the
15 regulation delivers on what we are charged with
16 as Board members with the expectation that come
17 August, we vote on a regulation that maintains
18 California's leadership and innovation in
19 cleaning our air, accelerating the creation of
20 innovative technology, and delivering hundreds of
21 thousands of new jobs for California families,
22 all while reducing the cost of cars through
23 strong equity provisions and reduced dependency
24 on oil.

25 "It is with this responsibility that I keep

1 the families I represent in my heart as I
2 consider how I will vote in August. Many of the
3 residents most impacted by -- by these issues
4 have high asthma rates. And also those are the
5 most impacted sometimes with high gas prices. So
6 we need a strong and equitable rule that can help
7 alleviate the immense economic health burdens
8 that are transportation systems have placed on
9 our most vulnerable residents.

10 "As I lived learned from the EJ community in
11 my district, it would be beneficial to support
12 accelerating zero-emission timelines, not just
13 for the longer term climate goals, but also to
14 advance relief for our communities.

15 Additionally, exploring what else can be done to
16 remove access barriers for our EJ communities are
17 important.

18 "I envision a California where everyone can
19 afford to purchase, lease, or have access to a
20 zero-emission car regardless of their income.
21 And I want a strong rule that catalyzes the
22 creation of good jobs and infrastructure
23 investments in my community.

24 "I'm not sure that the current proposal does
25 enough to be inclusive of vehicle placement in

1 priority communities that are disproportionately
2 harmed by air pollution and climate change. And
3 I will be asking more questions on what else can
4 be done on equity participation, for example, can
5 we do more for cars that are coming off of leases
6 and develop programs to connect faster to our EJ
7 communities.

8 "There's agreement between advocates and
9 automakers that more could be done with EJ
10 credits, which is why I support additional EJ
11 programs. However, I would like to see how
12 existing programs can provide more access to more
13 people. I will always support the advancement of
14 critical air quality goals for our frontline
15 communities in the San Diego region.

16 "Again, thank the public for their comments
17 and the staff for their work and I look forward
18 to continued discussions and engagement.

19 "Thank you for allowing me to submit my
20 comments".

21 CHAIR RANDOLPH: All right. Thank you.

22 Okay. Board Member De La Torre.

23 BOARD MEMBER DE LA TORRE: Thank you. I think
24 Eileen said it right when everybody is unhappy, you know
25 you've gotten to a good place and that's been my

1 experience on this Board over the years. The good ones
2 usually are the ones where we're getting grief from
3 both -- both sides.

4 So that being said, I wanted to start with my
5 framework of how I look at ZEVs, just little nuggets that
6 I kind of keep track of. First, there's more than 15
7 production EVs that are debuting this year, 2022. That's
8 a lot. That's a lot of new types of vehicles, you know,
9 not just sedans. I've told staff I'm not a big fan of
10 sedans. So I like -- I like that there's a variety of the
11 types of vehicles. And I know I'm not alone in that,
12 because cars sales nationwide tell us that.

13 ZEVs are on the rise. I know it's been alluded
14 to, but I want -- when I saw this trajectory, and I think
15 it was staff who gave it to me: 2018, 7 percent of ZEV --
16 of total vehicle sales in California were ZEVs; 2019, 6.8
17 percent - pretty much 7 percent; 2020, 7 percent again.
18 Three years in a row, 7 percent of total car sales in
19 California, which is a good number, certainly in that
20 time. Then 2021 it jumped to 12 percent. So, you know,
21 almost a doubling year over year in terms of the total
22 amount of vehicles that are ZEVs compared to everything,
23 include ICE, obviously. And then first quarter this year,
24 16 percent.

25 So a number of people have been using this 12 to

1 16 range, that's where they're getting it. Twelve percent
2 all of last year, 16 percent first quarter this year. Who
3 knows what it will be at the end of the year, but the
4 trajectory is going in the right direction. So, for us,
5 we have to keep pushing it and not screw it up. That's
6 our task now. That's where we've gotten to.

7 And we know -- and I always use the UBS, the
8 Swiss bank, analysis projection that 2024, 2025 we're
9 going to have price parity. I know staff thinks that's
10 too optimistic. For a change, the bank is being more
11 optimistic than our staff, the private sector, but it's
12 coming. And maybe COVID has dragged this out a little bit
13 out, you know, who knows, but it's close. And I believe
14 it's close. And certainly the announcement on the Bolt
15 just this last week tells us we're going in that
16 direction.

17 So to have an under \$30,000 ZEV on the market
18 is -- is a game changer. We only had two before. Now --
19 now, we're going to have one that goes under 30,000, which
20 is really good.

21 We are also talking to the Feds about our overall
22 vehicle standard. A lot of people talked about ICE
23 vehicles going forward and what those are going to be
24 like. We don't know, because we're talking to the Feds
25 right now for the next year and half, two years about

1 standards for 2027 model year, probably all the way up to
2 2035, I imagine, right, roughly, that's the time frame
3 that we do.

4 So this will all be folded into that bigger
5 picture of vehicle standards. And so this is not a
6 stand -- it's not in a vacuum. We are putting all of
7 these pieces together with all these other pieces and
8 they're very positive, I think. The trajectory is good.
9 The consumers are buying it. They're going to have more
10 variety. They're going to be cheaper and things are just
11 going to -- I'm convinced just going to break in the right
12 direction, sooner rather than later.

13 So this proposal. The fuel -- fuel cells, thank
14 you for making that adjustment. I do want to say that it
15 isn't just infra -- the fueling infrastructure for
16 hydrogen in those other states. This is the travel
17 provision or whatever we're calling it now. There are
18 certain regulations that they've got in some of these
19 other states. And the one that I keep coming back to is
20 New York City will not allow a fuel cell vehicle in the
21 tunnels to get into Manhattan. How the hell are you going
22 to buy a car that you cannot use to get into Manhattan?
23 That makes no sense.

24 So those are the kinds of things that these other
25 states have to also clear the deadwood from, so that -- so

1 that those vehicles are real -- a real option for
2 consumers. And so, you know, I think making the
3 adjustment is fine. But we also have to watch what these
4 other states are doing, because clearly the fuel cell
5 market is behind the BEV market, at this time. And we
6 don't know where it's all going, but having barriers is
7 not the way to go.

8 The durability standard, I appreciate the move to
9 the 75 percent and I'll kind of mimic Dr. Balmes point
10 here. And staff told me about the UN standard and that
11 they've got the standard, but it's the baseline, but
12 nobody has adopted it.

13 So if nobody has adopted it, it isn't the
14 baseline. No one has done that or anything else, so that
15 if we adopt the UN standard, then it really does become
16 the baseline for the world market. So that's just again
17 my view. I don't know what my colleagues think on that,
18 but I think it's good a take-off point for us going
19 forward.

20 Credits. One question on the credits. And I
21 know we've been asking a lot of them. Do we have an idea
22 of -- up till now, of the credit utilization within
23 California to comply here versus taking those credits
24 wherever they're earned and applying them in the Section
25 177 states? Just a ballpark percentage between us and

1 them, not that I'm trying to divide us.

2 STCD ZEV MARKET ADVANCEMENT SECTION MANAGER WONG:

3 Well, as we described, it's very hard to know
4 what is being complied with credits and with vehicles.
5 But let's go back to the mid-term review, which we brought
6 in front of you in 2017 that we kind of redid the ZEV
7 regular numbers and we expected about 8 percent compliance
8 by 2025 and we're at 16 percent. So are they using more
9 credits in California? No, they're generating credits in
10 California. You know, it's -- right now, we -- there
11 is -- there are -- there are -- they're continuing to
12 amass banks, so it's hard to say if they're using credits
13 or not. They are definitely in compliance in California.

14 In the states, they're -- they don't have as big
15 of banks, and it really depends on the state and it
16 depends on the type vehicles they're making, and it
17 depends on the manufacturer, because manufacturers have
18 differing markets in each state.

19 BOARD MEMBER DE LA TORRE: Um-hmm.

20 STCD ZEV MARKET ADVANCEMENT SECTION MANAGER WONG:

21 So I would say that to compare -- to kind of
22 compare, there are less banks in the states than there are
23 in the Section 1 -- than in California, because they
24 aren't necessarily at -- they're just getting to what 7
25 percent, I think? That's one of -- that's what the

1 Section 177 states slides had, on -- maybe on average or
2 maybe that was just for one of them. I couldn't -- okay.
3 Oregon.

4 So they're coming along, but they are -- they --
5 and right now the credits aren't fungible between
6 California and the Section 1277 states.

7 BOARD MEMBER DE LA TORRE: Oh, okay.

8 STCD ZEV MARKET ADVANCEMENT SECTION MANAGER WONG:
9 So we can't move them around.

10 BOARD MEMBER DE LA TORRE: All right.

11 STCD ZEV MARKET ADVANCEMENT SECTION MANAGER WONG:
12 There's going to be now -- we're going to allow
13 this kind of ability, but it's just all rely on
14 overcompliance.

15 BOARD MEMBER DE LA TORRE: So going forward, it
16 is fairly likely that our credits are going to go
17 elsewhere?

18 STCD ZEV MARKET ADVANCEMENT SECTION MANAGER WONG:
19 That's right.

20 BOARD MEMBER DE LA TORRE: Yeah.

21 STCD ZEV MARKET ADVANCEMENT SECTION MANAGER WONG:
22 Especially if we over --

23 BOARD MEMBER DE LA TORRE: Because that -- that
24 was my -- that was my assumption with the question was
25 that that was already happening. And if it hasn't

1 happened, when it does happen, I very much expect that
2 they're going to be -- we're going to be exporting
3 credits, which for all of the speakers and all of the
4 folks, and even myself who was concerned about that is
5 actually kind of a good thing, right? We produce the cars
6 and the credits, and then the credit part gets dealt with
7 somewhere else. It's like an externality.

8 (Laughter.)

9 BOARD MEMBER DE LA TORRE: So -- sorry, Section
10 177 states.

11 (Laughter.)

12 BOARD MEMBER DE LA TORRE: So -- so that's --
13 that's on the credits. My bias on the credits, all
14 credits. I'm not doing a caveat here, that we should have
15 the minimum possible. That -- I understand that every car
16 is a credit and -- but -- but somewhere that credit is in
17 lieu of, and whether it's here or in the 177 states. And
18 we are at a place, I think, with this trajectory that
19 we're on, where we need to minimize the amount of credits.

20 So the two places that I told staff and I'll say
21 it here, I would like on plug-in hybrids to reduce that
22 number, not dramatically. They need to be part of the mix
23 as well, but I think 20 percent is too much. And then --
24 and then on the EJ ones, I -- I am -- I am just convinced,
25 and I had this conversation with staff, that folks in EJ

1 communities, underserved communities like the one I live
2 in aren't buying new cars. They are not buying new cars.
3 We know that only about 30 percent of the public has ever
4 bought a new car. I have only ever bought a new car once
5 in my life.

6 And so I get that we need the new cars, because
7 they're the ones who -- who become used cars that can be
8 used by the folks in those communities. So I think
9 something to be looked at, and I don't know if this can be
10 done in the next couple months or not, but the leased
11 vehicles, and getting them to free up those leased
12 vehicles when they get them back. I think that's a piece
13 of this puzzle, somehow, that we get those cars not
14 sitting in some parking lot somewhere, to be, you know,
15 disposed of or whatever it is that they do, or controlling
16 it for market purposes, getting those cars out, so that --
17 so that they can be used by the impacted communities that
18 we're talking about.

19 So that is it. Thank you very much and thank you
20 again. You guys did a great job.

21 CHAIR RANDOLPH: All right. Thank you.

22 So Vice Chair Berg was going to comment, then
23 what I would like to do is maybe have kind a process
24 minute so we can just let everybody know kind of what the
25 process steps are, and then maybe spend a little time

1 talking about sort of some of what we've heard, because
2 I'm hearing some consensus around some areas that I want
3 to make sure we give appropriate direction to staff.

4 So Vice Chair Berg.

5 VICE CHAIR BERG: Thank you very much. First of
6 all, I do want to commend staff as well. I mean, when you
7 came to us originally and I saw that trajectory, I was
8 already having a heart attack. And so --

9 (Laughter.)

10 VICE CHAIR BERG: -- but, you know, my fellow
11 Board members truly convinced me that we did need to go
12 faster. We needed to accelerate. And you came back after
13 doing Yeoman's job working between stakeholders and
14 listening. And you've come back with no question a very
15 challenging -- but I think we're up for the challenge. So
16 I would just for myself thinking about, okay, we are up
17 for this challenge, but let's always go back to what is
18 our goal? And we are a leader. And within being a
19 leader, we are looking at 100 percent sales by 2035 and we
20 know that the 177 partners have to be successful, because
21 we identified in the very beginning of our climate policy,
22 of AB 32, that it would not be helpful for California to
23 go it alone, be a great success, and not bring anybody
24 else along.

25 So I truly appreciate the way staff has worked

1 with the 177 states. I understand the OEMs concerns. I
2 think they're valid, and -- but I also did speak with the
3 177 states, and their passion, and their absolute
4 determination I'm going to count on it. And I'm also
5 going to count on us to be able to monitor, and help, and
6 keep that on track

7 There's a second goal we have. It's different
8 than the first. The first goal talks about what Board
9 member De La Torre just said, the car buying public that
10 buys 1.4 to about 1.7 million cars a year. They are the
11 new car buyers. But our second goal is in my -- I believe
12 from what I've been reading, and I've been doing a lot of
13 rereading, is the first time in history to assure equity.
14 That is a separate goal from getting a hundred percent of
15 the existing car buying consumer to buy a car.

16 And so it is very important. It's a real
17 opportunity, but I'm not sure, as some others have said,
18 that the ACC II is the sole pathway to get there. So
19 thank you very much for absolutely including equity for
20 the first time. I agree with my fellow Board members.
21 We're woefully short, but we're woefully short in a
22 societal problem of equity. And so we're going to have to
23 get together and look at this and figure this out.

24 And I appreciate Board Member Takvorian, not
25 later, later, later, but it is -- it is challenging. So I

1 thank you for that. In your review, if you were to decide
2 that a little more value-add is another way to really
3 encourage OEMs, I did hear from OEMs saying that that
4 would be helpful, then if that came back, I would support
5 it. It's not a game changer for me, in the fact that if
6 you decide not, I will respect that.

7 The second thing I do want to get back to just
8 the durability, and I'm not going to harp on it, but it --
9 it is -- I am very concerned about the cost. I really am.
10 And what I'm really concerned about is we don't have
11 enough data. It feels to me that we're picking a point in
12 time and going to really drill down to see what the actual
13 data is. So I's really appreciate if staff would look at
14 that point in time and make sure are we really sure it's
15 worth that we should stand on 75 percent rather than adopt
16 the UN 70 percent.

17 I think I'm hearing from a totally different OEM
18 group than you're talking to, because some of the people
19 I'm talking to are between apoplectic --

20 (Laughter.)

21 VICE CHAIR BERG: -- to extremely concerned on
22 how this is going to work. So, Mike, I -- you know, you
23 are the go-to guy. You are the Gold Standard. Nobody is
24 questioning that. But this is -- this is -- we're kicking
25 off here, and what is the kick-off point. And so I just

1 really would appreciate stepping back with an open mind
2 and saying what's the goal, what else can you get, wonder
3 if they were willing to offer a warranty on used cars
4 differently. What -- what is it we need to get kicked
5 off. You're going to have plenty of time to make it more
6 stringent, and -- once we get data.

7 But if you come back at 75 percent, I want you to
8 know I'm going to support it, okay? But I want you to
9 know, I really do appreciate please take a look at this.

10 I appreciate the fuel cells. I -- I just don't
11 see that battery plug-ins is going to be the hundred
12 percent. I don't know if fuel cell is really going to
13 make it. We've got a lot of challenges besides opening up
14 stations, price, availability, and so forth, but I am a
15 believer, and so I do appreciate we're keeping it alive
16 until 2030.

17 We need all the tools in the toolbox. So
18 anything that this regulation right now looks to sunset
19 before 2030, I'd really like you to take a look at. Is it
20 something we should do? I'm thinking about the two ways.
21 Should we sunset the two ways in '27, '28 versus '30? Are
22 they needed? So look at all those tools just to double
23 check.

24 And then last two points. You know, the small
25 manufacturers are going to have a real struggle here,

1 especially going up through the next few years. You look
2 at a company like Mitsubishi, who's price point is between
3 15,000 and -- I have it written down here -- and 27,000 a
4 vehicle. These -- these are brand new cars that are
5 competing in the new market. And we start looking at
6 electrifying those, it is going to increase that price
7 significantly. So as we are looking about what are we
8 doing with equity, they need to come along. I'm not
9 suggesting anything different for them, but it would be
10 really important for you to track what is happening in the
11 marketplace and to Dr. Pacheco-Werner's point are we just
12 pricing cars out of the reach. And so that -- that is an
13 important point.

14 And then my last point is, is that, you know, we
15 don't do anything truly to figure out how many cars are
16 sticking around in California. And so we've had a big
17 fanfare that we reached a million cars that we've sold.
18 And yet, the DMV data suggesting it some place around
19 800,000. That would be a 20 percent leakage. And these
20 are cars that we are incentivizing. And so I do think we
21 should make sure that we are closing the loop to make sure
22 that these cars are staying in California. And if not,
23 why not? Are they turning them in? Are they going to
24 something else? And so I do think that that is very
25 important.

1 Thank you very, very much. Really appreciate all
2 of your efforts. And I'll turn it back to you, Chair

3 CHAIR RANDOLPH: Board Member Hurt, have a
4 question?

5 BOARD MEMBER HURT: Yes. Thank you. I just have
6 a quick question. A lot of us have talked about
7 durability and decreasing durability as far as the range
8 of life of a vehicle to some lower numbers than what we've
9 put forth. And so I'm just curious what does that mean
10 for those cars that will then be used cars that will go
11 into the EJ communities, the secondhand cars, and what
12 those costs will be? And are we actually moving backwards
13 when we talk about we want to provide equity if we lower
14 that durability? Because those cars are going directly
15 into those frontline communities.

16 DEPUTY EXECUTIVE OFFICER SEGALL: Yeah. That's
17 certainly one of our major concerns here. I mean, I'll
18 just be frank about that. We don't want to be in a world
19 where for the majority of people who buy used, the cars
20 decline really dramatically really fast. So heard about
21 the (inaudible), heard about the balance, heard about the
22 facts for sure, but that is one of the big things we're
23 thinking about.

24 VICE CHAIR BERG: But is -- then is one of the
25 things though to look at a floor? What -- I agree with

1 that. I don't want those cars to also, but do we need 75
2 percent for Lucid, you know, from 500 miles? So I think
3 we -- what I'm hearing is maybe we want to protect that
4 absolute -- that middle territory, but we've got to be
5 willing to pay the price then.

6 CHAIR RANDOLPH: So let me -- let me ask a
7 process question and then -- and then I'm going to try to
8 summarize where we are.

9 First of all, while we were talking, we lost our
10 quorum, which means that the proposed staff resolution
11 will not be voted on today, but we will sort of
12 effectively do the same thing, because the resolution
13 basically says staff keep working on this and bring --
14 listen to comments -- in fact, it specifically said
15 evaluate all comments received, if appropriate, prepare
16 and circulate any additional environmental analysis,
17 consider and develop any appropriate related modifications
18 to the proposed regulations, make them available for
19 public comment. So we will do all of that, but we won't
20 be officially voting on that piece.

21 So maybe, Jen, could you kind of summarize from a
22 process standpoint what the next steps are and then I will
23 talk about substance.

24 STCD CHIEF GRESS: Sure. Good afternoon. So
25 over the next probably week to 10 days we'll be thinking

1 about all the feedback that we got here today and we'll be
2 working through some additional modifications that we will
3 add to the staff suggested changes that we talked about in
4 the -- in the presentation.

5 So that then package we'll put out for a 15-day
6 review process. And then we'll summarize the comments and
7 put together a final package and come back in August for a
8 vote on the whole proposal.

9 CHAIR RANDOLPH: So if -- if members of the
10 public want to comment on the 15-day changes, can you just
11 explain briefly what the process for that will be?

12 STCD CHIEF GRESS: Um-hmm, yeah. It will -- it
13 will be very similar to the -- to the public comment
14 period we just had on the 45-day proposal, except that the
15 comment period will only be 15 days. So it's the same
16 general process. We'll be putting out amendments to the
17 proposal. They'll have 15 days to review it, submit
18 comments. We will then, when the comment period closes,
19 consider all of those comments.

20 CHAIR RANDOLPH: And so the package that you have
21 identified as the 15-day package is sort of the initial
22 draft. And so folks can digest that, think about that,
23 they've listened to all of our comments. I'm going to
24 walk through some of the things that we have talked about,
25 so they can digest that, in the meantime.

1 Then when the official 15-day package comes out,
2 they can compare the two, see what differences there are,
3 and comment on those during that 15-day comment period.

4 STCD CHIEF GRESS: That's exactly right.

5 CHAIR RANDOLPH: Okay. Board Member Kracov.

6 BOARD MEMBER KRACOV: And just -- so just walk us
7 through -- thank you, Jennifer Gress on this. So this is
8 going to be mid-July when those folks are going to
9 commenting?

10 STCD CHIEF GRESS: We'll probably -- we'll
11 probably have a package out within a couple of weeks.

12 BOARD MEMBER KRACOV: Okay. So, you know, just
13 looking at the comments today, they're quite technical in
14 nature. There's a lot of red lines, so encourage, you
15 know, the folks, the OEMs and others, to really look at it
16 during that time period.

17 So they're going to make their comments and then
18 what happens?

19 STCD CHIEF GRESS: We will consider them. At
20 this point, probably -- I mean, we're on a very tight
21 timeline --

22 BOARD MEMBER KRACOV: Right.

23 STCD CHIEF GRESS: -- to adopt the final
24 proposal. So the package that we put out, we are hoping
25 is our final, final set of amendments to the proposal.

1 And then what we bring to you will reflect the 15-day
2 package. We're -- I mean, in our ideal situation, we are
3 not making additional changes beyond what gets proposed in
4 the 15-day package.

5 CHAIR RANDOLPH: And then the Board will vote on
6 that final package in August.

7 STCD CHIEF GRESS: Yes.

8 CHAIR RANDOLPH: Okay. All right. So I'm going
9 to try to summarize kind of generally what we've heard. I
10 think there is some interest that -- in staff continuing
11 to noodle over are there ways to make the equity
12 provisions more attractive in terms of just, you know,
13 finding ways that will encourage them to be used, but not
14 reduce overall stringency, right? So staff will kind of
15 mull that over and discuss that with stakeholders and see
16 if there's some more options there.

17 A couple of Board members did express an interest
18 in increased stringency in the early years, but I'm not
19 hearing a consensus around that, given the challenges of
20 meeting the aggressive stringency that we did propose.
21 And I would point stakeholders once again to slide 5 in
22 the staff presentation, which really shows that first
23 staff, you know, increased the stringency significantly
24 from the proposal in 2021, but more importantly that those
25 lines do converge and we get to 100 percent, which is the

1 most important thing we need to see.

2 I did her some concern about durability
3 requirements and perhaps maybe providing more flexibility
4 in the early years at least, like maybe looking at the UN
5 proposal for the early years, because this concern seemed
6 to be -- and anybody -- folks can correct me if I'm wrong,
7 that we didn't want to increase costs too much in the
8 early years and we wanted to be very cognizant of that.

9 And Board Member Hurt had expressed a concern
10 that, you know, the purpose is to make these vehicles
11 robust in the used car market, which I think we all agree
12 with. But, you know, one point is that there is an
13 opportunity for consumers before they purchase a car to be
14 able to see the state of the health, now that there's a
15 requirement to identify that state of health so they know
16 what they're buying, but also if we think of this as more
17 of an early strategy, and as we learn more, you know, you
18 can build a trajectory where you're increasing durability
19 requirements over time. Is that a thing? I'm looking at
20 you, Mr. Segall.

21 DEPUTY EXECUTIVE OFFICER SEGALL: That is
22 potentially a thing that we're already starting to think
23 about.

24 CHAIR RANDOLPH: Okay.

25 DEPUTY EXECUTIVE OFFICER SEGALL: I will say it

1 would be less of a thing if it did not have a good clear
2 regulatory ark toward more durability standards in later
3 years, simply because you want to put a good target for
4 people to aim at that's real. So some of the autos have
5 suggest just collect data forever. It will surprise you,
6 not a thing.

7 Looking at the early years and talking about it,
8 we've heard the message there.

9 CHAIR RANDOLPH: Okay.

10 DEPUTY EXECUTIVE OFFICER SEGALL: I'm not sure
11 how much of a cost center as people may think, but we'll
12 look at it.

13 CHAIR RANDOLPH: Okay. And whatever you end up
14 sort of presenting out for 15-day changes, you know,
15 whatever additional information you can share about costs
16 I think would be helpful when the Board reviews it in the
17 fall.

18 A few folks mentioned getting back to that cost
19 theme, some of these questions around extra cords, and
20 extra pieces of equipment, which I have to say I'm a
21 little skeptical that that really increases cost that
22 much, but I wanted to sort of let -- you know, find -- I
23 don't -- I didn't quite hear a full consensus on that, so
24 if any Board members have a strong feeling about
25 additional equipment that might add some cost. Dr.

1 Pacheco-Werner mentioned it. Anybody else have strong
2 feelings about it.

3 BOARD MEMBER HURT: Can we here from the staff at
4 a future meeting how much a cost we're stalking about,
5 just to put it in perspective?

6 DEPUTY EXECUTIVE OFFICER SEGALL: Sure. Joshua,
7 do you want to talk about this now.

8 BOARD MEMBER HURT: And if not now, later. I
9 just --

10 BOARD MEMBER KRACOV: Each person has their topic
11 area, you know.

12 (Laughter.)

13 STCD ADVANCED CLEAN CARS BRANCH CHIEF CUNNINGHAM:
14 Yeah. Sure. Thank you. Joshua Cunningham.
15 Yeah. We have some very limited data on what automakers
16 would sell those cords for, and it varies within the range
17 of a few hundred dollars for some of the automakers, but
18 it varies. I think what's really important to emphasize
19 is that even for today's cars, where many automakers are
20 offering the cord set at just a Level 1 capability. It's
21 important -- it's a benefit for those buyers when they get
22 home to be able to use the car immediately without having
23 already installed the charger. It provides an option for
24 them to experiment with the car, plug into a regular
25 outlet, learn what their driving behavior is before

1 deciding whether they need a home charger, how big of a
2 circuit they need to install.

3 Now, some drives are not going to have access to
4 any outlets who live in an apartment for example. And so
5 it doesn't help them, but it provides the flexibility
6 to -- of just having a basic cord set to begin with.

7 Our proposal is taking it to the next level,
8 which is to require the cord set to be certainly offered
9 in the car for all automakers, most do right now, but to
10 also take it to Level 2 capability. We think that
11 provides an extra value for some of the lower income
12 homeowners or homeowners that live in apartments of any
13 income level who don't have the ability to install a home
14 charger, but may have access to a receptacle, a Level 2
15 circuit. The cost of adding that home charger fixed
16 appliance could be offset with having that Level 2
17 convenience cord and gives that driver an immediate
18 capability to have Level 2 much faster charging at their
19 house, as long -- as long as they have a circuit.

20 So it's not a perfect solution. You still have
21 to have access to that wall plug, but we think it provides
22 one additional mechanism that provides more options for
23 homeowners that may not have the immediate financial
24 capability to buy a home charger and we don't think it
25 adds much money to the car.

1 CHAIR RANDOLPH: Okay. Then my inclination is to
2 sort of let that sit as is.

3 All right. And then a couple of other things I
4 would like staff to think about are -- oh, I also -- there
5 was some discussion about the plug-in hybrids. I'm
6 comfortable with staff's proposal at point. I think it
7 strikes the right balance. So I'm not hearing a big
8 consensus on changing that.

9 And then I will -- I do kind of -- would like
10 staff to give some thought about sort of what the
11 follow-on steps are. I don't know that we need like a
12 full on technology review type step, but I do think that
13 perhaps in like 2025 an update to the Board on kind of
14 market conditions would be useful and then also thinking
15 about maybe a, you know, 2028, 2029 kind of update on
16 implementation, like how is it going, what is the -- what
17 has been happening in the market.

18 And then, you know, maybe kind of more frequent
19 updates around ongoing conversations about equity, because
20 I think, kind of to the point some of us have made, this
21 regulation in and of itself is not sufficient to get us --
22 no matter what we put in terms of crediting, it's not
23 going to get us to where we need to go. So I think we
24 need to be thinking sort of separately from this
25 regulation how are we thinking about metrics for equity,

1 how are we thinking about ensuring that the various levers
2 that we're using, the incentives, the infrastructure, you
3 know, engaging with non-profits who are really active in
4 this area. We've talked about this -- these a lot, but we
5 don't really have a coordinated kind of place or process
6 to have that conversation.

7 So I think it's going to be -- I would like to
8 see in the next few months us build some sort of kind of
9 interactive, you know, working group process, or something
10 like that, where we can kind of pull stakeholders together
11 and have kind of a larger conversation about all of these
12 different approaches, and are we make -- are we -- are we
13 making sure that everything is consistently moving in the
14 right direction. And so, you know, that seems like the
15 kind of thing that maybe after the State budget lands, it
16 might be a good opportunity to have that conversation.

17 So I think that covers it. And I just will
18 repeat what so many others have said, the expertise and
19 depth on the staff is just amazing and we really
20 appreciate all the work you've put into this, all the
21 incredible thought and technical knowledge, and work with
22 stakeholders. And very excited to get the 15-day
23 process -- 15-day change process underway and land this
24 plane in August.

25 (Laughter.)

1 CHAIR RANDOLPH: And also thanks to the 177
2 states for being 177 states for us, because without them,
3 this would be a fraction of the -- of the possibilities.

4 So I think we still have open public comment. So
5 sorry.

6 Oh, Gideon.

7 BOARD MEMBER KRACOV: Sorry, Chair. You
8 certainly merit finishing this up -- I'm sorry -- because
9 you merit the last word. And thank you for assimilating
10 all the comments.

11 Just a knit from my last questions on process,
12 Jennifer Gress. So we went to the effort of putting all
13 these really detailed 15-day, so -- and then we're going
14 to assimilate what we've heard and then do sort of a
15 final, near final 15-day. But in the meantime, these are
16 on the street. People should comment on these now,
17 because that will also help inform this final, near final
18 15-day, right? If folks have comments, they should get it
19 to you -- who care about the details, they should get it
20 to you as soon as possible, correct?

21 CHAIR RANDOLPH: Not officially.

22 STCD CHIEF GRESS: These are -- this is -- so the
23 document that's available right now is simply basically a
24 communications tool. This illustrates the language --
25 this is the draft language to illustrate the comments that

1 we put in the staff presentation. It's not an actual
2 proposal, but it is the basis that we're going to start
3 from as we take in all these comments. So I would say
4 that immediately, you know, stakeholders could use that
5 draft to talk with us, and that would be fine. But we're
6 going to be releasing an official 15-day package in a
7 couple of weeks for an official public review comment
8 period. I hope that's clear.

9 CHAIR RANDOLPH. Right, because basically we
10 closed the comment record and it -- the comment record
11 will be reopened with the 15-day changes. So any comments
12 in that interim will be informal interactions with staff.
13 They won't be formal comments on the record.

14 All right. That closes this item. Thank you so
15 much for all your work.

16 And now it is time to move on to open public
17 comment on items not on the agenda.

18 BOARD CLERK ESTABROOK: Chair, it looks like
19 there is no one with their hands raised in Zoom at this
20 time.

21 There are no hands raised for the open comment.

22 CHAIR RANDOLPH. All right. We wore everyone
23 out, so this meeting is adjourned.

24 Thank you.

25 (Thereupon the Air Resources Board meeting

adjourned at 5:50 p.m.)

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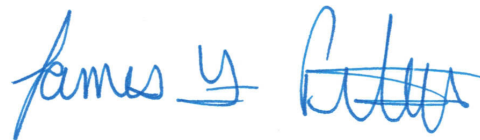
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