

DOCKETED

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CALIFORNIA ENERGY COMMISSION

In the matter of:

2021-2023 Investment Plan) Docket No. 21-ALT-01
Update for the Clean Energy)
Transportation Program)
_____)

CLEAN TRANSPORTATION PROGRAM
INVESTMENT PLAN ADVISORY COMMITTEE MEETING

REMOTE VIA ZOOM

THURSDAY, SEPTEMBER 16, 2021

9:00 A.M.

Reported by:

Peter Petty

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P R O C E E D I N G S

9:03 A.M.

TUESDAY, JUNE 29, 2021

MR. BRECHT: Good morning everyone.

Welcome. My name is Patrick Brecht and I'm the Project Manager for the 2021 to 2023 Investment Plan Update for the Clean Transportation Program. I want to thank you all for being here.

And I'll just start off with some housekeeping.

The workshop is consistent with Executive Order N-08-21 to continue to help California respond to, recover from, and mitigate the impacts of the COVID-19 pandemic. The public can participate in the workshop consistent with the direction in the Executive Order.

This meeting is being recorded and we ask you to mute yourself -- (clears throat) excuse me -- when you're not speaking -- (clears throat) excuse me -- and star six, or asterisk six, for the telephone.

The transcript of this meeting will be made available on the Energy Commission website. There will be an opportunity for public comment at the end of the meeting. And written comments

1 submitted to the docket are very strongly
2 encouraged.

3 Do we have the slide up?

4 MR. BOBADILLA: On it.

5 MR. BRECHT: Okay. Great. If you can
6 advance to the next slide?

7 MR. BOBADILLA: Hold on. I think I got
8 the wrong slide. My apologies.

9 MR. BRECHT: Sorry. Bear with us for a
10 moment.

11 MR. BOBADILLA: Can you see the slides?

12 MR. BRECHT: Yeah. Go ahead and advance
13 if you can, Jonathan. Thanks. Great. Oh, one
14 back please. Great.

15 The location of the docket is 21-ALT-01,
16 as mentioned on this slide.

17 We ask the Advisory Committee Members to
18 indicate that they would like to speak or comment
19 by using the raise-hand feature. We'd also like
20 you to identify yourself before you speak. And
21 telephone participants, dial star nine to raise
22 your hand. And be sure to keep the chat box open
23 in case you receive any messages. We have a lot
24 to cover today. And since the meeting is
25 virtual, we may have to limit Advisory Committee

1 Member comments to three minutes per discussion
2 topic and, perhaps, one to two minutes for public
3 comment.

4 You can advance the slide please.

5 Today's agenda will begin with opening
6 remarks by Lead Commissioner Monahan.

7 Presentations will include an overview of the
8 Clean Transportation Program. We'll then have a
9 presentation on updates to AB 2127, the Charging
10 Infrastructure Assessment Staff Report published
11 in July 2021, and the SB 1000 Electric Vehicle
12 Charging Infrastructure Deployment Assessment.
13 We also have a staff presentation on tracking
14 community benefits. This will be followed by
15 updates to the Clean Transportation Program
16 funding. We'll then have a presentation that
17 will include an update on the General Funds and
18 how the funds will impact the Clean
19 Transportation Program. Lastly, we'll discuss
20 changes and reallocations in the Revised Staff
21 Draft of the Investment Plan. This will be
22 followed by an Advisory Committee discussion
23 headed by Lead Commissioner Monahan.

24 And with that, I will turn it over to
25 Commissioner Monahan for opening remarks.

1 COMMISSIONER MONAHAN: Sorry folks. I'm
2 having a hard time un-muting. Well, welcome
3 everybody. Great to see so many of you on video.
4 As I was saying before the meeting started, I
5 really miss the fact that we can't meet in
6 person. You know, it definitely takes away from
7 the interpersonal experience when we're on Zoom.

8 So what I would ask, if you can, since we
9 -- it's been a long time since we've all seen
10 each other, and not everyone will remember
11 everyone from the Advisory Committee, so if you
12 can adjust your name so you can put your
13 organization afterwards, after it, just so
14 that -- I think it will be easier for the group
15 dynamic.

16 So I want to welcome you all to the
17 Advisory Committee discussion on this year's
18 Investment Plan. And as you all, I think, know,
19 this is the largest amount of funding that we've
20 ever had for zero-emission infrastructure and
21 other clean transportation investments, so this
22 conversation is particularly important.

23 When we met in April, we had a draft plan
24 to spend our regular allotment of a little bit
25 less than \$100 million. And with the infusion of

1 \$1.165 billion from the General Fund for zero-
2 emission vehicle infrastructure and grants to
3 zero-emission vehicle manufacturers, this
4 Advisory Committee meeting and other stakeholder
5 engagement is just more critical than ever.

6 So as my colleague and Manager of the
7 Clean Transportation Program's Investment Plan,
8 Patrick Brecht, will elaborate, our goal is to
9 bring the Investment Plan for a vote before the
10 Commission in November, so that's about three
11 months away. So I'm really looking forward to
12 discussion and feedback on our Revised Investment
13 Plan. We want to make sure that we are
14 appropriately balancing investments to support
15 the state goals for zero-emission transportation
16 and other state goals, and that our plan advances
17 equity and provide concrete benefits for low-
18 income and disadvantaged communities.

19 I want to thank all of the Advisory
20 Committee meeting -- Members who filled out our
21 survey about these Zoom meetings. We wanted to
22 hear from you about what was working and what was
23 not working. So the majority of respondents
24 recommended that we pretty much stay the course
25 and that we had the right balance of

1 presentations and discussions. So that's --
2 we're just kind of staying the course on this
3 meeting.

4 One thing I should emphasize is that, you
5 know, the meeting is supposed to end at one
6 o'clock. We have a public comment period that
7 will begin at noon, so we're talking about three
8 hours of concentrated Advisory Committee time.
9 There's no breaks built in, I'm sorry about that,
10 so you should feel free to take breaks as you
11 need them. But we were trying to balance, like,
12 well, the meeting, we wanted to keep it -- like
13 three hours seems like the maximum that anybody
14 could sit in a Zoom meeting, so we were trying to
15 like just keep the time for this contained. So
16 feel free to take breaks, walk around, stretch,
17 do what you need to do.

18 So with the backdrop of this year's large
19 infusion of funding, I wanted to remind you all
20 about the roles and responsibilities of Advisory
21 Committee Members. In general, Advisory Committee
22 Members are ineligible to apply for or receive
23 funding from the Clean Transportation Program.
24 There are just a few exceptions, which are laid
25 out in the Roles and Responsibilities document.

1 If you have questions, please do reach out to
2 Patrick with your questions. We're also going to
3 be recirculating the Roles and Responsibilities
4 document to everybody just so -- just to keep it
5 fresh in your mind.

6 So I think that's it for my opening
7 remarks. I'm going to turn the mike over to
8 Patrick Brecht now for a brief overview of the
9 Clean Transportation Program.

10 MR. BRECHT: Thanks Patty.

11 I should add, the Roles and
12 Responsibilities document is on the docket if you
13 wanted to refresh yourself with that.

14 Okay, I will turn over to a brief
15 overview.

16 The Clean Transportation Program was
17 established by California Assembly Bill 118 in
18 the year 2007. The program is funded through a
19 small surcharge on California vehicle
20 registrations which gives us a budget of up to
21 about \$100 million per year. California Assembly
22 Bill 8 extended the program to January 1st, 2024.
23 The program was developed to provide funding
24 support for projects that reduce greenhouse gas
25 emissions in the transportation sector, which

1 accounts for roughly 50 percent of state
2 greenhouse gas emissions. (Clears throat) excuse
3 me, people. The projects will fund -- the
4 projects we fund also contribute to other
5 complimentary state goals, including improved air
6 quality, providing investments in low-income and
7 disadvantaged communities, economic development,
8 and reduced petroleum dependency.

9 Next slide.

10 Today, we'll be discussing the Revised
11 Staff Draft version of the 2021 to 2023
12 Investment Plan Update to the Clean
13 Transportation Program. This document, updated
14 annually, serves as the basis for the program's
15 funding opportunities for each fiscal year. The
16 allocations reflect considerations of state and
17 federal policies and regulations, as well as the
18 coordination with state agencies, such as the
19 California Air Resources Board and the California
20 Public Utilities Commission, among others.

21 The Investment Plan lays out how the
22 coming fiscal year's funds will be allocated
23 across different fuels, vehicle sectors, and
24 supporting activities. The document is vetted
25 through a public review process that involves

1 multiple iterations of the document and meetings
2 with our Advisory Committee, one we're having
3 today which is our second. And finally, the
4 Investment Plan sets allocations for various
5 funding categories, not individual projects.

6 Next slide.

7 In preparation for the Investment Plan --
8 in preparing the Investment Plan the CEC seeks to
9 increase the participation of disadvantaged and
10 unrepresented communities from a diverse range of
11 geographical regions.

12 The CEC also seeks to effectively engage
13 communities disproportionately burdened by
14 pollution and improve economic resiliency,
15 including rural and tribal communities. And this
16 effort includes consulting with the Disadvantaged
17 Communities Advisory Group for guidance and
18 receives on program effectiveness as it relates
19 to disadvantaged communities and other vulnerable
20 and underrepresented groups, prioritize
21 investment in proper community outreach and
22 engagement, and partner with local community-
23 based organizations.

24 In addition to the above actions, the CEC
25 has provided a scoring preference for projects

1 located in and benefitting disadvantaged
2 communities as defined by the California
3 Communities Environmental Health Screening Tool.
4 These preferences have been used in recent
5 California transportation -- Clean Transportation
6 Programs stations, where appropriate. And more
7 than half of the site-specific Clean
8 Transportation Program funding to date has been
9 located within low-income or disadvantaged
10 communities. The CEC is in the process of
11 developing metrics that go beyond location. And
12 my colleague Larry Rillera will speak on this
13 later in the presentation.

14 Next slide.

15 Let me shift to provide context for
16 developing the Clean Transportation Program
17 Investment Plan. The allocations and the
18 communication of the program reflects the effect
19 of numerous policies and goals in legislation,
20 regulation, and executive order. The net result
21 of these policies have been to steer our program
22 toward zero- and net-zero-emission fuels and
23 technologies. And such policies include the ones
24 you have on the slide, all the way to achieving a
25 carbon-neutral economy by 2045.

1 Next slide.

2 Executive Order B-16-12 set a target of
3 1.5 million ZEVs on the road by 2025 and tasked
4 various state agencies with specific actions
5 needed to support this goal. Subsequently, in
6 January 2018, Executive Order B-48-18 set an
7 expanded target of 5 million ZEVs on the road by
8 2030, as well as a network of 200 hydrogen
9 fueling stations and 250,000 electric vehicle
10 charging stations, including 10,000 DC fast
11 chargers installed or constructed by 2025. These
12 executive orders have been part of the guidance
13 for the EV and hydrogen fueling infrastructure
14 investments for our program to date.

15 Executive Order N-79-20, signed by
16 Governor Gavin Newsom on September 23rd of 2022,
17 provides even more ambitious goals and
18 requirements. These include 100 percent of in-
19 state sales of passenger cars and trucks being
20 ZEVs by 2035, 100 percent of operating medium-
21 and heavy-duty vehicles being ZEVs by 2045 where
22 feasible, and 100 percent of drayage trucks and
23 off-road vehicles and equipment being ZEVs by
24 2035.

25 Next slide.

1 Now I'll talk about what is informing the
2 Investment Plan.

3 We have SB 1000, Electric Vehicle
4 Charging Infrastructure Deployment Assessment
5 which was published, initially, in December 2020
6 and focused on number of chargers by geography,
7 income, and population, with the final report
8 expected in December 2021 which focuses on drive
9 time by geography, income, urban and rural areas,
10 and CalEnviroScreen scores.

11 Also informing our program is AB 2127,
12 Electric Vehicle Charging Infrastructure
13 Assessment, analyzing charging needs to support
14 ZEVs in 2030. The Commission Report published
15 this in July 2021.

16 As mentioned earlier, there's also
17 consulting with our Disadvantaged Communities
18 Advisory Group.

19 And adjusting for this year, and
20 subsequent years, adjusting for General Fund
21 augmentations from Budget Act of 2021.

22 Next slide.

23 Now with that, I will turn it over to my
24 colleague Raja and he will speak on AB 2127.

25 Thank you.

1 MR. RAMESH: Good morning, Advisory
2 Committee Members and other attendees. My name
3 is Raja Ramesh. I'm an Air Pollution Specialist
4 in the Energy Commission's Fuels and
5 Transportation Division. Unfortunately, I don't
6 have a staff video for today because I've been
7 having some (indiscernible) issues this morning.
8 Pleasure to speak to you all.

9 In June of this year the Commission
10 adopted the inaugural Assembly Bill 2127,
11 Electric Vehicle Charging Infrastructure
12 Assessment, which is the result of over two years
13 of work by the team in the Division, our
14 leadership contractors who did the modeling work,
15 other collaborators informing our analysis and
16 providing data, and public stakeholders who
17 participated in our workshops and gave feedback
18 that helped shape the report.

19 California currently has over 74,000
20 electric vehicle chargers in public and shared
21 private locations. Over the coming years, as
22 technology and industries evolve, what is likely
23 to be needed?

24 In 2018, the legislature passed AB 2127
25 and called for reports analyzing charging needs

1 for all vehicle types, including heavy-duty and
2 off-road, and other elements of planning,
3 operating, and financing charging infrastructure.

4 In September 2020 an executive order from
5 Governor Newsom expanded California's ZEV goals
6 and called for our reports to encompass them.
7 While the focus is on 2030, infrastructure needs
8 beyond that year are also discharged in the
9 report.

10 And we're talking targets for -- our
11 report addresses two main policy goals. The 5
12 million ZEVs by 2030 goal was enshrined in the
13 2018 legislation. After the 2020 executive
14 order, the California Air Resources Board
15 analyzed what is likely to be needed to achieve
16 its even more aggressive goals in its mobile
17 source strategy. They came up with 8 million ZEVs
18 in 2030 which we take as an input for the report.

19 A small note on the pictures. Innovative
20 charging solutions that are uniquely suited for
21 their local conditions are a key part of meeting
22 the state's policy goals. FreeWire and Volta are
23 good examples of this vision, using battery
24 integration and sponsored charging for the
25 accelerated charging (indiscernible).

1 Next slide please.

2 We're not only talking about light-duty
3 vehicles. This is a map of the scope of our
4 report. The white boxes have elements called
5 formative legislature.

6 Back a slide please.

7 And the others are activities, work
8 products, and models that went into our report
9 and will continue to be worked on for future
10 versions.

11 While the light-duty-related efforts
12 highlighted in blue benefit from a more mature
13 market and continue to be refined, medium-duty
14 and heavy-duty and off-road analysis will evolve
15 more rapidly as their respective markets develop
16 and are a major area of emphasis in the
17 Commission's ongoing work.

18 I want to give credit to our contractors
19 who develop models in coordination with Energy
20 Commission Staff, the National Renewable Energy
21 Laboratory continued its work on EVI-Pro and
22 created a model for long distance road trips. UC
23 Davis developed a model investing ride hailing
24 and its unique charging behavior. And Lawrence
25 Berkeley National Laboratory developed a new

1 model projecting charging needs for medium- and
2 heavy-duty electric vehicles.

3 We've also analyzed the off-road sector
4 and will continue to, in greater depth, as the
5 market develops. And we'll continue to
6 coordinate with the Air Resources Board for their
7 projections of off-road, heavy-duty, and other
8 vehicle types based on their regulation and
9 analysis.

10 Next slide.

11 I won't go into great detail here but
12 this spells out some of the methods and
13 considerations for modeling charging
14 infrastructure needs. You can see, there are
15 many variables, charging behavior, where drivers
16 go, the power levels of chargers, and even access
17 to charging at home, which have a huge impact on
18 when charging happens and are difficult to pin
19 down, and they'll change as more people start to
20 drive electric cars. We've even worked on about
21 a dozen scenarios showing the sensitivities to
22 these factors. It's important to understand
23 their impact. And the difficulty of projecting
24 needs into the future as the market and
25 technology change and as driver behaviors and

1 preferences evolve. We'll also look at
2 particular applications for charging, such as
3 long distance road trips.

4 In this slide, the image on the left
5 shows existing fast charging locations in
6 California. And the right shows simulated
7 locations in '23 of fast charging stations to
8 support long distance travel for pure battery-
9 electric vehicles.

10 Next slide.

11 Now I'll briefly summarize the major
12 quantitative results from the report.

13 First, light-duty chargers. These are
14 for public and shared private locations, not
15 cataman (phonetic) chargers in single-family
16 houses. Under the most ambitious goals, it's
17 predicted that California will need close to 1.2
18 million chargers for light-duty vehicles to
19 ensure convenience for drivers and businesses.

20 As you can see in red, there's a sizeable
21 gap, even when accounting for chargers that are
22 already planned to be installed by 2035. While
23 various factors can effect these numbers, and CEC
24 Staff will update them as new market conditions
25 and other pieces of information are important,

1 there's a clear need to accelerate charging
2 deployment in California in order for us to reach
3 our ZEV adoption goals.

4 Next slide.

5 Here are the light-duty results for the
6 most aggressive 2030 goals in load profile form.
7 You can see the green region for fast charging,
8 which includes those stations I showed on the
9 previous slides for long distance travel, plus
10 additional fast chargers for ride hailing.

11 But we can see that most charging happens
12 at home, the yellow and red regions. When the
13 charging occurs also matters a lot. If drivers
14 set simple timers to start charging when time-of-
15 use rates become cheaper around midnight, we see
16 this phenomenon on the right which we call a
17 timer spike. That could pose an issue for some
18 local distribution grids. Smart charging,
19 vehicle integration, these could smooth out that
20 effect and still let the driver access the
21 cheapest electricity.

22 Next slide.

23 Beyond the light-duty total, we
24 anticipate that a population of roughly 180,000
25 MD/HD vehicles will need about 157,000 high-power

1 chargers in 2030. We'll continue to refine the
2 modeling and seek more regular data for this
3 sector. And I must emphasize that transforming
4 the heavy-duty and off-road sectors to clean
5 power is vital to equity because of how close
6 some priority communities are to seaports and
7 major corridors for freight, and how these
8 communities disproportionately suffer the impact
9 of toxic diesel air pollution.

10 Next slide.

11 This shows the modeled charging power
12 through the day of several medium- and heavy-duty
13 vehicle segments. You can see these segments on
14 the right, and the black line indicating their
15 modeled charging load throughout the day. It's
16 worth mentioning that because of the wide variety
17 of jobs these vehicles serve their activities,
18 charging behaviors, and locations are very
19 diverse. It was challenging to get data on all
20 the uses of heavy-duty vehicles. And we're
21 thankful to collaborators who supplied important
22 data and continue to coordinate with us.

23 Next slide.

24 To wrap up, there's a lot to this report
25 beyond load curves and charger numbers. This

1 slide alone could be five presentation. Remember
2 the scope of the report, the boxes I showed, the
3 elements of planning, operating, and financing
4 charging infrastructure, our report goes into
5 depth on each of these. And while it is not the
6 final work on any one topic, it takes an
7 inventory of programs, activities, and
8 technologies that will shape the future.

9 Equity. Remember when I commented about
10 the heavy-duty sector and the impact of diesel
11 pollution on communities? Additionally, the
12 Energy Commission, under Senate Bill 1000, is
13 analyzing the availability of chargers for all
14 Californians.

15 Vehicle grid integration. Remember the
16 promise of using renewable energy more
17 effectively and improving grid resilience. That
18 can really go into high gear with bidirectional
19 charging, the ability to discharge energy to the
20 grid to earn revenue, or to buildings and homes
21 in case of an outage, or even to power a camping
22 trip or work tools at remote sites.

23 For example, a Forecasted F150 Lightning
24 will have this capability, shown. This image
25 from Forecasted shows its potential to power a

1 house during an outage. It's the first major
2 vehicle ad campaign to promote bidirectional
3 power. And this vehicle has serious energy, over
4 eight times the capacity of a typical home
5 battery pack, which is enough to power a house
6 for several days.

7 Connectors. Standardization is a key
8 part of driver communities in making the best use
9 of our charger network.

10 Technology developments and
11 communications. This was an issue that attracted
12 different opinions from stakeholders on the best
13 path forward. But what is clear, at least, is
14 the need for grid-friendly charging on a massive
15 scale, and a convenient experience for drivers
16 and businesses.

17 Finally, the report takes an inventory of
18 funding programs and shares stakeholder thoughts
19 on the future of financing and sustainable and
20 innovative business models for charging. These
21 are all topics we'll keep an eye on for future
22 versions of the report.

23 Thank you.

24 MR. RILLERA: Great. Thank you, Raja.

25 Good morning everyone. My name is Larry

1 Rillera. I am Staff in the Fuels and
2 Transportation Division. I will be providing a
3 brief update on the CEC's California Electric
4 Vehicle Infrastructure Deployment Assessment as
5 directed by SB 1000.

6 The law requires the CEC to assess
7 whether EV charging infrastructure, including DC
8 fast charging stations, is disproportionately
9 deployed and accessible by population density,
10 geographical area, or income. The assessment is
11 an ongoing research effort. The assessment helps
12 inform the Clean Transportation Program policies,
13 investments, and project designs to improve
14 equitable deployment of new EV charging
15 infrastructure while local communities accrue the
16 benefits of these investments.

17 Next page please.

18 Staff started this analysis last year and
19 focused on geographic distribution of public
20 chargers by income and population. Results
21 indicated that public chargers tend to be
22 collocated with EVs but are unevenly distributed
23 across income groups and groups of higher and
24 lower population densities. These results were
25 published in the SB 1000 Report of December of

1 last year.

2 This year, Staff looked at community
3 drive times to public fast chargers to better
4 understand convenience and access. We updated
5 the low-income community findings to show that
6 low-income communities have some of the longest
7 drive times to reach a public DC fast charging
8 station. We also found that high population
9 density areas are generally closer to a DC fast
10 charging station than low population density
11 areas, even though there were -- there may be
12 fewer chargers total within a high population
13 density census tract.

14 The remainder of this presentation will
15 focus on the '21 -- excuse me, 2021 analysis and
16 findings.

17 Next slide please.

18 To improve research and analysis of
19 public DC fast charging access, Staff conducted
20 an analysis of the drive times to these chargers.
21 Staff used mapping software to the nearest single
22 public DC fast charging station using the
23 shortest available route and considering peak
24 traffic. Drive time to a public charging station
25 is just one component of access that indicates

1 convenience to a charger and is one way that
2 drivers measure the cost of travel.

3 Shown here are some of the modeling
4 results. This map shows two different census
5 tract population centers in Los Angeles County
6 and the shortest route and drive time to the
7 nearest DC fast charging station. Drive times
8 are calculated using roadway data from CARB, the
9 California Air Resources Board, which include
10 afternoon peak traffic. This means that the
11 drive time results represent the worst case
12 scenarios across different regions where a driver
13 may be stuck in traffic for a long period of
14 time.

15 While doesn't necessarily show an
16 individual driver's experience, since the driver
17 could live closer to or farther away from a
18 station than the census tract center, Staff
19 thinks that the community-level differences that
20 show up are important.

21 Next page please.

22 Differences in drive times helped Staff
23 assess potential fast charging gaps or local
24 areas where there is a lack of charging. In the
25 analysis, local charging gaps and communities may

1 require intentional fast charger policies and
2 investments to fill in these gaps. Findings
3 indicate that impacted communities with respect
4 to public fast charging stations include several
5 rural communities, low-income communities, and
6 disadvantaged communities.

7 Next slide please.

8 All communities require a mix of charging
9 stations, including newer and faster charging
10 technologies to support demand charge, economic
11 development, and electric vehicle uptake. To
12 improve access to fast charging, the Clean
13 Transportation funding decisions for charging
14 infrastructure deployment should consider
15 prioritizing shorter drive times to DC fast
16 charging stations, especially for underserved
17 communities.

18 The drive time maps developed through
19 this analysis could be used in conjunction with
20 other tools to show general areas where DC fast
21 charging incentives may be needed to improve
22 equitable charging access. Staff will continue
23 to analyze fast charging technologies, use cases,
24 and metrics, including access to public Level 2
25 chargers and access by other underserved

1 populations, which also include California Native
2 American tribes and multifamily housing
3 residents.

4 Staff is also looking at ways to
5 incorporate this analysis into upcoming grant
6 funding opportunities, starting with the
7 solicitation to increase charging access for
8 rural Californians.

9 In terms of next steps, Staff is in the
10 process of writing the next SB 1000 report which
11 will cover this drive time analysis and is
12 expected for release in December of this year.
13 Additionally, Staff is developing a webpage that
14 will house all reports, data, and maps.

15 Thank you. This concludes my
16 presentation on SB 1000.

17 Next slide please.

18 For those of you that are not on video,
19 are on phone, I will be presenting this item. My
20 name is Larry Rillera. I will be providing a few
21 remarks on the benefits of the Clean
22 Transportation Program to communities.

23 Next slide please.

24 The CEC seeks to increase the
25 participation of disadvantaged and underserved

1 communities. Recent actions to diversify --
2 recent actions to move to diversify and increase
3 inclusion, include diversifying the Clean
4 Transportation Program Advisory Committee,
5 consulting with the Disadvantaged Communities
6 Advisory Group, or DCAG, consulting internally
7 with the CEC's Tribal Prog and the Tribal Lead
8 Commissioner for help with our program's
9 outreach, and promoting transportation-related
10 funding opportunities.

11 It also includes assessing distribution
12 and access of EV charging infrastructure under SB
13 1000 and establishing the IDEAL Communities
14 Partnership with the Foundation for California
15 Community Colleges.

16 And lastly, it also refers to -- excuse
17 me, includes actions with respect to the IDEAL
18 ZEV Workforce Pilot with our sister agency, the
19 California Air Resources Board, which is pending
20 release.

21 Next slide please.

22 In short, the CEC will be engaging with
23 stakeholders and the public to create a plan for
24 bringing more Clean Transportation Program
25 benefits to communities, including previously

1 underserved and underrepresented communities.
2 Through a public process, the CEC will seek to
3 define community benefits, measure and track
4 community benefits, and find ways to target and
5 increase community benefits under the program.

6 Thank you. And this concludes my
7 presentation. And I will turn it over to
8 Patrick.

9 MR. BRECHT: Thank you, Larry.

10 Yeah, I'll just provide just a quick
11 update on the Clean Transportation funding
12 opportunities or the funding of the past -- well,
13 since the last Advisory Committee meeting.

14 So next slide.

15 For the second block grant for the light-
16 duty electric vehicle charger incentives, this
17 was up to \$500 million available. And the NOPA
18 was just released September 3rd and this provides
19 a streamlined incentive for -- to install
20 chargers. This is per -- this is to follow up
21 our successful CALeVIP Program. And we have two
22 proposed awards, each up to \$250 million.

23 And next, we have our Vehicle Grid
24 Innovation Lab, or ViGIL. This is to increase
25 capacity and throughput for the electric vehicle

1 supply equipment standing -- excuse me, standards
2 testing, support expansion of testing for light-
3 duty and medium-to-heavy-duty charging equipment,
4 and the provide a timely and cost effective
5 avenue for stakeholders to validate and test
6 products for conformance to establish standards.
7 And testing at funded laboratories, or laboratory
8 or laboratories, will be voluntary and will not
9 be mandatory for entities to be buildings -- to
10 do business in California. And this is up to \$2
11 million availability. And NOPA is expected, that
12 is the Notice of Public Award, excuse me, should
13 be expected here in September.

14 Next, we have CARTS which is Charging
15 Access to Reliable On-Demand Transportation
16 Services. This provides convenient charging
17 access for high mileage and on-demand
18 transportation and delivery services. It
19 provides targeted charging deployment that
20 increases the percentage of eVMT. It provides
21 economical charging options for drivers and
22 fleets. And this is up to \$6 million available.
23 And proposals are due October 29th, 2021.

24 And next, we have two solicitations which
25 are under development, and I think Larry touched

1 on these a moment ago. We have our multifamily
2 housing EV charging infrastructure and reliable
3 rural EV charging infrastructure. These are both
4 to promote charging access for all Californians.
5 Both are still under development and you should
6 expect them in November and dec.

7 Next slide.

8 And just to touch back on our medium-to-
9 heavy-duty infrastructure investments, this is
10 the competitive block grant solicitation. The
11 CEC's program is seeking -- well, has a block
12 grant recipients for design and implementing up
13 to \$50 million in grant funds to various medium-
14 and heavy-duty zero-emission vehicle refueling
15 infrastructure incentive projects throughout
16 California. And we have up to \$50 million
17 approved and \$17 million available to start.

18 So next slide.

19 And if you remember, this is the \$10
20 million allocation from the last Investment Plan
21 which contained the guiding principles of speed
22 of implementation, impact to communities, job
23 creation, and economic development. And with
24 that, we have decided to fill these two
25 solicitations or augment the solicitations.

1 First was the EV communities -- EV Ready
2 Communities Blueprints, Phase II. We have an
3 additional \$9.2 million that will be allocated to
4 this. And I think the NOPA was released, maybe,
5 two days ago, if I recall. Additional awards
6 will be determined based on proposals of
7 competitively evaluated scores and expect to
8 fully fund one partial award plus three new
9 awards.

10 And next, we have our upcoming
11 solicitation, IDEAL Workforce. IDEAL is
12 workforce -- excuse me, Inclusive, Diverse,
13 Equitable, Accessible, Local ZEV Workforce Pilot.
14 And that's with a additional \$0.8 million. That
15 will be included for this solicitation. And we
16 expect that in September, also, so that gives us
17 the 9.2 plus 0.8, that is \$10 million, and that
18 would be under our recovery and reinvestments
19 category from the last Investment Plan.

20 Next slide.

21 Then I'd just like to touch on our two
22 fuel production investments. We have up to \$8
23 million available. Preapproved applications due
24 September 22nd, and that would be for the ultra-
25 low-carbon fuel commercial-scale production

1 facilities and blending infrastructure. We also
2 have our renewable hydrogen transportation fuel
3 production, and that's up to \$7 million
4 availability. Preapproved applications are due
5 for that September 22nd.

6 And I will provide a -- next slide
7 please.

8 If you'd like more information on our
9 funding opportunities, current and upcoming, this
10 is a great place to look and find them.

11 Okay, next I will -- the next slide
12 please.

13 Next, I would like to talk about the
14 General Funds from the ZEV package. Of course,
15 most of you, I'm sure, are aware, on July 20 --
16 on July 12, 2021, Governor Newsom strengthened
17 California's commitment to a clean energy future
18 by approving the 2021 to 2022 Budget, that's
19 Senate Bill 129, the Skinner Budget Act of 2021,
20 which includes a three-year \$3.9 billion budget
21 for ZEV-related investments by CARB, the
22 Governor's Office of Business and Economic
23 Development, GO-Biz, and the CEC.

24 The budget prioritizes diesel emission
25 reductions by earmarking funding to replace 1,125

1 drayage trucks, 1,000 school buses, and 1,000
2 transit buses with zero-emission alternatives and
3 refueling infrastructure. Of that package
4 amount, the CEC will administer \$1.165 billion
5 towards infrastructure deployment to accelerate
6 charging and hydrogen fueling station deployment
7 and grants to promote in-state ZEV and ZEV-
8 related manufacturing, such as infrastructure
9 equipment and ZEV components.

10 The investments will help the markets for
11 ZEV and infrastructure grow to scale and, more
12 importantly, serve as a foundation for an
13 equitable and sustainable economic recovery by
14 drawing private investments to California and
15 creating jobs in manufacturing, construction, and
16 engineering.

17 The ZEV package, also, is a multiagency
18 investment that requires ongoing coordination
19 with CARB, the Governor's Office, and California
20 State Transportation Agency, and others for each
21 program to complement each other and to maximize
22 benefits to Californians.

23 Next slide.

24 The Clean Transportation Program has been
25 allocated, as mentioned before, \$1.165 billion

1 over the next three years, with up to \$785
2 million available from the first fiscal year,
3 that's Fiscal Year 2021 to 2022.

4 In order to meet the state's ZEV goals, a
5 large amount of funding will need to be
6 administered in a short period of time, providing
7 funding to already evaluated projects that
8 support the Clean Transportation Program and the
9 Governor's budget goals, will reduce
10 administrative burden, and get funding deployed
11 quickly.

12 Additionally, disadvantaged, low-income,
13 and underserved communities will receive air
14 quality and economic benefits faster.

15 So Staff has reviewed and reevaluated
16 over -- all oversubscribed Clean Transportation
17 Program NOPAs, or Notice of Proposed Awards, and
18 put together a list of recommended zero-emission
19 vehicle infrastructure projects that best fit the
20 goals of the one-time funding. And we have some
21 listed here on this slide.

22 Hydrogen refueling infrastructure for \$27
23 million, and this would be sufficient to reach
24 the 200 station goal, and I'll touch on this
25 later.

1 Blueprints for medium- and heavy-duty
2 zero-emission vehicle infrastructure, this would
3 be \$2.4 million. Also from the ZEV
4 infrastructure category, that's the \$500 million
5 category which I'll talk about later.

6 And zero-emission transit fleet
7 infrastructure deployment at \$16.3. And the
8 transit buses category, which is a \$30 million
9 allocation.

10 And BESTFIT innovative charging
11 solutions, that's \$1.2 million for ZEV
12 infrastructure category. That, too, is from the
13 \$500 million category mentioned earlier, and
14 we'll touch on it in a moment.

15 Next slide.

16 I just would like to provide just a few
17 key changes that have been made for the Revised
18 Investment Plan Update. It's, of course, the
19 inclusion of the zero-emission vehicle package
20 administered by CEC over the next three years.
21 We have included this funding in our Investment
22 Plan, along with our typical Clean Transportation
23 Program funds, which come to \$95.2 million each
24 fiscal year.

25 And we've also been working very hard to

1 keep -- to make sure that the Clean
2 Transportation Program funding and monies
3 received from the General Fund will complement
4 each other.

5 The Revised Staff Draft also provides
6 updates to the AB 2127 Report, as mentioned by
7 Raja, and the SB 1000 Report, the California
8 Electric Vehicle Deployment Assessment, which
9 Larry touched on, and input from the first
10 Advisory Committee meeting, and docket
11 submissions.

12 Next slide.

13 Now this table may be a little bit
14 difficult to read. It shows a side-by-side
15 comparison from the Staff Draft and the Revised
16 Staff Draft for the Clean Transportation Program
17 funding only. As you can see, funding for light-
18 duty and medium- and heavy-duty investments have
19 been evened out. So if you were to look up at
20 the top, the first Staff Draft, we had evened out
21 the funding, so in other words, had taken some
22 monies from medium- and heavy-duty and shifted
23 them over to light-duty. And this is in response
24 to feedback we received from our first Advisory
25 Committee meeting.

1 And if you were to go down to the
2 manufacturing and workforce training development
3 section or categories, you can see that we now
4 zeroed out manufacturing and have added those
5 funds to workforce training and development. And
6 this shift is in response to the General Fund
7 which targets manufacturing with a great deal of
8 funding.

9 Next slide.

10 This slide shows how we are proposing to
11 translate the aforementioned funding priorities
12 into real funding allocations. This is the
13 combined Clean Transportation Program funds with
14 the General Fund here in the Revised Staff Draft
15 version. The proposed allocations for the 2021
16 to 2023 Investment Plan Update combine both Clean
17 Transportation Program funding and the General
18 Fund ZEV package investments.

19 This table shows the proposed funding
20 allocations for Fiscal Year 2021 to 2022, as well
21 as the funding projections for the remainder of
22 the Clean Transportation Program, as well as the
23 \$1.165 billion, which is \$785 million in the
24 current budget over three years, made available
25 through the General Fund ZEV package. The

1 rationale for funding allocations is focused on
2 ZEVs, both battery-electric and hydrogen fuel
3 cells infrastructure, and ZEV manufacturing. The
4 proposed allocations reflect the state's goals
5 for ZEVs, as well as near- and long-term carbon
6 reduction, improved air quality, and equity, with
7 focus on providing benefits for disadvantaged
8 communities.

9 The table proposes an allocation of \$335
10 million to support light-duty passenger duties,
11 and about \$373 million to support medium- and
12 heavy-duty vehicles in Fiscal Year 2021 to 2022.
13 During the first three-year allocation,
14 represented in this table, the funding would
15 total over \$400 million to support light-duty
16 passenger vehicles and about \$677 million to
17 support medium- and heavy-duty vehicles.

18 Now for light-duty charging
19 infrastructure the CEC proposes \$288.1 million in
20 the current fiscal year, and an additional \$43.9
21 million in the remaining two years of the
22 program, which should be sufficient to meet the
23 state's goals of having 250,000 chargers by 2025
24 and put the state on course to reach the 2030
25 goals.

1 For light-duty hydrogen infrastructure
2 the CEC proposes \$47 million the current fiscal
3 year, for the current fiscal year, an additional
4 \$30 million in the future years, which will be
5 sufficient to meet the state's goals of 200
6 public stations open by 2025. These stations
7 should be the -- should have the capacity to
8 refuel about 280,000 fuel cell electric vehicles.
9 The auto industry estimates that the population
10 of fuel cell vehicles will grow from 7,129 in
11 2021 to 61,000 by the end of 2027. So station
12 capacity will no longer be a barrier to near-term
13 deployment. The CEC proposes to front-load
14 investments to ensure public adoption of ZEVs is
15 not stymied by lack of in fact.

16 Now the General Fund investments will
17 prioritize, as mentioned earlier, diesel emission
18 reductions by earmarking funding to replace 1,125
19 drayage trucks, 1,000 school buses, and 1,000
20 transit buses with zero-emission alternative and
21 refueling infrastructure, and to accelerate
22 charging in hydrogen fueling stations to promote
23 ZEV-related manufacturing.

24 Furthermore, it is vital to front-load
25 funding to ensure the public adoption is not

1 stymied by lack of the infrastructure. And due
2 to the increase of General Funds for
3 manufacturing, funds initially proposed, as
4 mentioned earlier, in the draft version of the
5 Investment Plan are now -- have now been shifted
6 to workforce training and development.
7 Allocations for zero- and net-zero-fuel
8 production and supply should remain steady over
9 the next two-and-a-half fiscal years.

10 That's a lot to take in. We can -- we'll
11 go over that again during our discussion.

12 Next slide.

13 Now just touch on the schedule for the
14 Investment Plan Update.

15 The CEC released the Draft Staff on April
16 26th. The first Advisory Committee meeting was
17 held on April 29th. After reviewing feedback
18 from the Advisory Committee and review of the
19 docket comments, the CEC released the Staff
20 Draft -- excuse me, the Revised Staff Draft on
21 September 8th. And, of course, we are holding
22 our second Advisory Committee meeting today.
23 Comments for the Investment Plan are due, on this
24 version of the Investment Plan, are due September
25 30th.

1 We plan on releasing the Lead
2 Commissioner Report in late October, it could be
3 the first week of November, but we plan on
4 releasing the Lead Commissioner Report, as I
5 mentioned, late October. Staff will then -- will
6 anticipate presenting the Investment Plan to the
7 CEC business meeting for approval on
8 November 20 -- in November 2021.

9 And with that I will now turn it over to
10 Commissioner Monahan to lead the Advisory
11 Committee discussion and for -- to lead into some
12 questions for consideration.

13 And with that, Jonathan, if you can
14 advance the slide? And that's it.

15 Over to you, Patty. Thanks.

16 COMMISSIONER MONAHAN: So there was a lot
17 of information in a short period of time. And I
18 see Tracy's hand is up.

19 So I'm wondering, before we go into
20 discussion, if there are any clarifying questions
21 for the team? Let's just take a few minutes to
22 respond to any questions about this, the
23 presentations.

24 So, Tracy, do you want to -- do you have
25 a question or a comment? What do you have?

1 COMMITTEE MEMBER STANHOFF: Well, thank
2 you. I thought the presentations were great.
3 And I loved that they were in a short amount of
4 time so you can concentrate on it and taking it
5 all in. And thank you, you guys, for doing a
6 wonderful job of explaining it to us.

7 And perhaps, maybe, I didn't catch a
8 couple of things, but I did have three questions
9 or comments on them.

10 One, first, thank you for including
11 tribal lands in part of your discussion today.
12 That was very, very ingratiating to us. And I
13 thought it was really wonderful that it's now
14 being considered more heavily and thank you for
15 that.

16 My three questions, though, were -- and
17 maybe I missed this, one, is there taken into
18 consideration that we're going to have enough
19 electricity in the state to power all these
20 charging stations?

21 Two, I can see, definitely, a need for
22 microgrids on tribal lands, just in reflecting,
23 because a lot of the tribal lands don't even have
24 full electric coverage right now. And I know a
25 lot of folks are very, you know, interested in

1 having electric cars and keeping our environment
2 clean and so forth or, you know, hydrogen cars.

3 And three, has there been a discussion,
4 in light of my first comment, on incentives to
5 keep peaker plants that are run by natural gas or
6 whatever in place while -- to make sure that we
7 have enough electricity in the state? I mean, we
8 already have the peak power, flex power issues
9 going right now. And then we have shutoffs, of
10 course, at other times when we have wildfires.

11 So those are my three comments. And,
12 again, thank you. This is a great conversation
13 today.

14 COMMISSIONER MONAHAN: Well, let me
15 respond to your comments and questions, Tracy.

16 You know, on the power side, that's
17 something that we, the Energy Commission, are
18 taking very seriously, together with our sister
19 agencies, the Public Utilities Commission and the
20 California Independent Systems Operator. We're
21 doing a lot of analysis right now to evaluate how
22 much generation we need for the grid and to
23 identify new energy sources and distributed
24 energy sources, so flexible resources which,
25 actually, electric vehicles fall into that

1 category of something that you can choose not to
2 power at a certain time. And, you know, that's a
3 very broad conversation.

4 I would say we're all deeply committed to
5 ensuring that there's a reliable, resilient,
6 affordable energy system, and a lot of work
7 happening right now to make sure that that's the
8 case.

9 There have been critiques, you know,
10 well, why are we moving to battery-electric
11 vehicles when we are having these Flex Alerts and
12 some big challenges? And what I'll say is that
13 when we -- when the power is down you can't
14 get -- you actually get gasoline in most places
15 either. So it's an issue, you know, broadly,
16 like we want to make sure the lights stay on and
17 that we have electricity for the grid. And, you
18 know, we -- these problems are all solvable.

19 And we're exploring with our investments
20 ways to add resilience to the system. So
21 microgrids, as you point out, that's a great one
22 and we're thinking more about that.

23 We're also thinking about funding places
24 that have battery storage, ironically, even using
25 second-life batteries from vehicles to provide

1 onsite storage that when -- you know, if there is
2 a power shortage, for whatever reason, these
3 backup batteries can provide some resilience to
4 the system. They can also be used, you know, at
5 peak times when prices are particularly high to
6 make sure you can still refill your vehicle at a
7 good price.

8 So we are making investments, you know,
9 not just in putting chargers willy nilly across
10 the state but we're trying to be very strategic
11 in our investments.

12 And I welcome your feedback on what more
13 we can do to support tribal communities and to
14 support resilience in tribal communities with
15 that broader perspective than just EV charging.

16 Did I --

17 COMMITTEE MEMBER STANHOFF: Thank you.

18 COMMISSIONER MONAHAN: -- address all
19 your questions, I think?

20 COMMITTEE MEMBER STANHOFF: Well, the
21 only one was the peaker plant issue, you know,
22 like the natural gas plants. If, you know, we're
23 moving to renewables completely, which is a good
24 thing, of course, sometimes you need some help,
25 you know, in running the system when it's --

1 whatever, you know, issues come up that the
2 renewables aren't, you know, fueling us totally
3 for the electric needs we have in the community.

4 And as a business person, aside from the
5 tribal issue, you know, we want to keep
6 California competitive in business, so that's
7 another thing that we wrestle with.

8 But, of course, being tribal, we have a
9 lot more issues with this issue of no
10 electrification, unfortunately --

11 COMMISSIONER MONAHAN: Um-hmm.

12 COMMITTEE MEMBER STANHOFF: -- than other
13 communities do, so it's --

14 COMMISSIONER MONAHAN: And if you're okay
15 with this, Tracy, I think what we could do is
16 have a separate discussion about peaker plants
17 and what's happening on the broader, just because
18 it's beyond the Clean Transportation Program
19 Investment Plan?

20 So are there any other questions from
21 Advisory Committee meeting -- Members about
22 the -- just the contents of the presentation?
23 Just raise your hand if there are.

24 All right, Matt.

25 COMMITTEE MEMBER GREGORI: Thanks. Thank

1 you for taking my question.

2 Patrick, I was -- I noticed that the zero
3 and net-zero-fuel production budget was
4 relatively small compared to the overall budget
5 and flat. And we got a lot of commentary on some
6 of the other line items. I was just wondering if
7 you could just give us a little color behind the
8 thought process behind that planning?

9 MR. BRECHT: Actually, I may have to
10 defer to Charles.

11 Charles, would you mind answering that
12 question for me?

13 MR. SMITH: Sure, just for -- oh, sorry.
14 Let me get my video going. Hi.

15 So I wonder, Jonathan, maybe go back to
16 the slide in reference? One more maybe? Okay.
17 Thank you.

18 So I think that the first thing that I
19 would point out is that a lot of the other larger
20 allocations that you see here are us
21 incorporating the State Budget General Fund
22 additions into our program. And those additions
23 were, specifically, on the ZEV infrastructure
24 side, as well as the manufacturing side. So
25 that's why you see some of the triple-digit

1 allocations in those categories that you don't
2 necessarily see in the fuel production and supply
3 category.

4 I think we're still interested in leading
5 with our ZEV infrastructure priority. But I do
6 think that we are still, also, interested in
7 leaving the door open for critical production
8 projects that, especially, can support that ZEV
9 transition, including renewable hydrogen fuel
10 production.

11 And then I think we've also left the door
12 open for funding for fuel production projects
13 where the fuel goes into an end use that is not
14 as easily transitioned into zero emissions.

15 But, yeah, I think the biggest
16 explanation for the funding differences that we
17 see between categories is the availability of
18 those General Funds that were specified for zero-
19 emission infrastructure and manufacturing.

20 COMMITTEE MEMBER GREGORI: Okay. Thank
21 you.

22 COMMISSIONER MONAHAN: So we have three
23 other hands raised. Let's see if we can tick
24 through the questions really quickly and then get
25 to the actual discussion.

1 Rey, you're next.

2 COMMITTEE MEMBER LEON: Hello. Good
3 morning from the Coachella Valley. I'm actually
4 out here in Riverdale at a hemp thing, but I'm
5 going to take care of this first.

6 So my question is, you know, in regards
7 to the resiliency and the energy availability for
8 charging station or the future infrastructure of
9 the charging stations, I know in Fresno County,
10 we're pursuing a study to find out what that
11 looks like.

12 But I think one good move, and I'd like
13 to learn more from the experts on this, would be
14 to do something like what we are focusing on for
15 the Citizen of Huron. We're researching and
16 assessing the possibility of building a solar
17 microgrid on 20 acres that would be about 5
18 megawatts, so that, with storage, so that we
19 could be able to part of that resiliency but,
20 also, in a way, provide some economic justice for
21 our residents and our commercial.

22 You know, Huron is a very low-income
23 farmworker community. We're always just flirting
24 with the red line, you know, in terms of the
25 budget. And we see this as a possible win-win-

1 win. And I don't know what policies are place
2 with -- at the state, the CPUC regulations, CEC
3 regulations, to help make something like that
4 possible where we could provide resiliency to the
5 grid for EV charging, but also to empower our
6 community to have the ability to be able to
7 enhance quality of life for some of the
8 hardworking people on the planet.

9 That's it.

10 COMMISSIONER MONAHAN: Thanks Rey. I
11 think that was more of a comment than a question.

12 But I will say that, you know, while
13 we're talking about the Investment Plan for the
14 Clean Transportation Program, there is also a
15 grant program through EPIC, our Electric Program
16 Investment Charge Program. And that, you know,
17 some of the microgrid investments have been
18 coming from that set of that funding pie. And
19 thinking through, you know, how the EPIC dollars
20 and the Clean Transportation dollars can do
21 double duty is -- you know, sometimes we do joint
22 solicitations with the EPIC Program.

23 I'm going to try to -- so we have a
24 number of hands up. And I want to make sure,
25 because I want to get to the discussion, please

1 try to keep your questions just very simple and
2 pointed and, hopefully, we can tick through them
3 very quickly and get to the discussion.

4 All right, Will, you're next.

5 COMMITTEE MEMBER BARRETT: Thank you very
6 much for the presentation. I very much
7 appreciated it. I wanted to just kind of confirm
8 or, maybe, ask for a bit more detail about the --
9 how quickly you envision getting the funding out?
10 You mentioned in the presentation getting -- you
11 know, taking a look at the, you know, prior
12 applications in the oversubscribed programs. It
13 would just be helpful to know how quickly we
14 think that the General Fund funding can go out to
15 really, you know, as mentioned in the
16 presentation, accelerate the benefits, especially
17 in our communities that are most overly impacted
18 by diesel exhaust and other transportation
19 solutions?

20 So just wanted to kind of catch a little
21 bit more detail, if possible, on how quickly
22 you'll be going back to those solicitations and
23 trying to get the money out the door?

24 COMMISSIONER MONAHAN: Charles or
25 Patrick, do you want to take that?

1 MR. SMITH: Yeah. So I can say that
2 we've already issued a couple of revised
3 notices -- sorry. Video.

4 We've already issued a couple of Revised
5 Notices of Proposed Award. So we're, at that
6 point, reaching out to the newly-funded
7 applicants and letting them know the, hopefully,
8 good news, and developing new agreements based on
9 those revised results.

10 For future work, in most cases we will
11 have to do the diligence of crafting new funding
12 solicitations that can utilize these funds. We
13 have our block grant projects proposed for award
14 on both the successors to CALeVIP, but also the
15 Energize Medium- and Heavy-Duty Block Grant
16 Project. And so I think we're starting those off
17 with, sort of, funding to get them up and running
18 first, but those will provide another great
19 opportunity for getting the ZEV infrastructure
20 out there quickly.

21 COMMITTEE MEMBER BARRETT: Great. Thank
22 you very much. Appreciate that. I feel like
23 it's a very important opportunity to kind of jump
24 on as quick as possible, so thank you.

25 COMMISSIONER MONAHAN: Thanks Will.

1 All right, I see Mary is next.

2 COMMITTEE MEMBER SOLECKI: Thanks. Good
3 morning. I appreciate Will's question. That's
4 helps answer one thing I was wondering.

5 And then am I correct in understanding
6 that all of the new funding that came from the
7 budget that was just passed, that only went into
8 this fiscal year; right? None of it went into
9 future budget years?

10 MR. SMITH: So the funding that we are
11 starting to implement now is based just on the
12 current Fiscal Year 2021-22. The Investment Plan
13 Draft that we have before you today looks at
14 future fiscal years as well.

15 COMMITTEE MEMBER SOLECKI: I'm sorry. I
16 think I wasn't clear with my question.

17 MR. SMITH: Oh.

18 COMMITTEE MEMBER SOLECKI: Sorry about
19 that. I'm familiar with what the old proposal
20 was.

21 I'm just trying to contrast what we are
22 seeing today versus what we have seen in the
23 past, that this augmentation is a result of the
24 new budget that was passed and only this year was
25 augmented; is that correct?

1 MR. SMITH: Only this year's, Fiscal Year
2 2021-22, budget has been approved by the
3 legislature, and so those are funds that are
4 available to us now. We expect that additional
5 General Funds will be made available beyond our
6 usual \$95.2 million --

7 COMMITTEE MEMBER SOLECKI: So --

8 MR. SMITH: -- in the next two fiscal
9 years as well.

10 COMMITTEE MEMBER SOLECKI: Right. Okay.

11 COMMISSIONER MONAHAN: All right. Thanks
12 Mary.

13 We have Bill, and then Leslie on deck.

14 COMMITTEE MEMBER ELRICK: Hi. Hopefully
15 you can hear me as I have all my things off.

16 You know, I just wanted to quickly kind
17 of ask, and we can put it into the discussion
18 later, but ask more about some of the analysis
19 work being done, and can we see more on the
20 hydrogen specifically, you know, whether it be
21 the Wire model, the EVI-Pro?

22 You know, we heard quite a bit of the
23 analysis on the battery side. I love the e-miles
24 achieved per infrastructure. I understand why
25 different approaches are taken for hydrogen and

1 batteries.

2 Carbon intensity and recognizing, you
3 know, where the market is, according to AB 8,
4 there for hydrogen right now at over 90 percent.

5 So I'll just wrap all that in. I know
6 there's some bills out there. But I think it's
7 very important that the CTP really looks at the
8 metrics universally, objectively, and apply them
9 across the Board to get the \$5 million ZEVs and
10 the full transition successful. And so we're
11 happy to work with you on that. And I just
12 wanted to -- I know there's a lot of questions
13 out there and still discussion, so kind of that's
14 my big ball of questions for the most part.

15 COMMISSIONER MONAHAN: So maybe I can
16 take that really quick, Charles?

17 I mean, and I think, Bill, as you know,
18 AB 2127 required us to do an analysis. Senator
19 Archuleta has a bill that would do the same on
20 the hydrogen side. And you know, so the more we
21 get legislative direction that's signed by the
22 Governor, then the easier it is for us to
23 allocate precious Staff resources towards
24 analysis. We want to do that analysis and we
25 welcome that opportunity.

1 COMMITTEE MEMBER ELRICK: Well, we -- I'd
2 love to help do more faster, just because of the
3 lag time in all infrastructure, and knowing CTP
4 is really about market transformation. So, you
5 know, looking at hydrogen, the 200 goals we're --
6 the 200 station goal, we're really close, but
7 that doesn't get us to, if I look at ZEV
8 regulation, all the way to CTP in everything from
9 the Governor's new executive order of 100 percent
10 transition. I don't think we wait to do work. I
11 think this is important work we can start
12 applying more universally.

13 COMMISSIONER MONAHAN: Thanks Bill.

14 All right, I have Leslie, and then Alfred
15 on deck, and then we're going to move to
16 discussion.

17 COMMITTEE MEMBER AGUAYO: Hi. Yeah.
18 Good morning. I have two quick questions. I
19 think they might be helpful for me to clarify as
20 we move into the discussion. One of them is
21 related to the budget.

22 So I was wondering if one could explain
23 to me a little bit around the confidence that the
24 CEC has for the next two years of funding that
25 are subject to budget appropriations? So I know

1 that Mary asked the question about this year's
2 funding through the General Fund. But how
3 confident is the CEC on the numbers that are
4 proposed in that budget for the following two
5 years?

6 COMMISSIONER MONAHAN: Well, we're
7 planning for that now, Leslie. I mean, as
8 Charles said, this all depends on whether the
9 legislature allocates the -- you know, actually
10 does this in next year's budget and the Governor
11 signs the bill, but that's what we're planning
12 for.

13 What I will say is that because we had
14 this annual process we, you know, we have this
15 way to revise allocations based on how much money
16 we actually have. So we're going to use this
17 process next year.

18 COMMITTEE MEMBER AGUAYO: Okay. Thank
19 you.

20 And my second question, just really
21 quickly, is it possible to have a little bit more
22 clarity around how the decision making to count
23 investments towards the 50 percent stack
24 allocation is made? I wonder if it's a physical,
25 an actual physical investment that's counted in a

1 census tract that is tax that goes towards the
2 overall 50 percent allocation or if it's a fair
3 criteria that's being used?

4 MR. SMITH: So right now, so for the --
5 and as Patrick and Larry alluded to, we're
6 looking at metrics that will look at more than
7 funding into projects just based on where they
8 are physically located.

9 But, yeah, so right now we take a look at
10 where the project is physically located. And
11 then what is the corresponding Clean
12 Transportation Program investment in that project
13 or project site and we assess low-income or
14 disadvantaged community investments accordingly.
15 As mentioned, we're looking to move beyond that
16 because we recognize that, you know, that's one
17 simple but maybe not wholistic view of how to
18 best represent the benefits of our program to
19 California communities.

20 So I think there will be a lot of
21 conversations and outreach that we're interested
22 in as we sort of develop ideas for what some of
23 those other metrics could look like.

24 I hope that gets at your question.

25 COMMITTEE MEMBER AGUAYO: Yeah. Thank

1 you. I just wanted to clarify, based on this
2 funding plan, how that was measured. Thanks.

3 MR. SMITH: Sure. Thanks.

4 COMMISSIONER MONAHAN: Alfred, I think
5 you're next.

6 COMMITTEE MEMBER ARTIS: Thank you so
7 much. This is Alfred Artis with Consumer
8 Reports.

9 I just want to confirm, did your light-
10 duty DC fast charging analysis find that
11 individuals in low-income and disadvantaged
12 communities had the furthest commutes to DC fast
13 charging infrastructure? Is that -- did I hear
14 that correctly?

15 MR. SMITH: I don't know if Larry is --

16 MR. RILLERA: Yeah.

17 MR. SMITH: Yeah.

18 MR. RILLERA: -- I'm here.

19 MR. SMITH: Thank you.

20 MR. RILLERA: Thank you. Thank you,
21 Alfred, for the question.

22 So part of the analysis, in response to
23 your question, goes to where we do the analysis
24 from the census tract, the census block, the
25 population center to the fast charger, so there's

1 going to be some differences in there. And it
2 could appear -- some of the early results show a
3 longer drive time depending on that trip origin,
4 so let me kind of start it that way. And I know
5 that there's continuing analysis in this area to
6 refine that before we begin design of the
7 solicitation and incentive programs. That will
8 continue to be part of the analysis by Staff as
9 well.

10 COMMITTEE MEMBER ARTIS: Thank you.

11 COMMISSIONER MONAHAN: All right, so
12 let's move into the discussion. Our team has put
13 together some questions to tee off the
14 discussion. Let me just read them, just for
15 folks that don't have -- if anybody's on their
16 phone, like Rey.

17 So our first question is: Do the revised
18 funding allocations in the latest version
19 appropriately count for the availability of new
20 General Fund money since we did switch some
21 monies from different categories in response to
22 this infusion of funding that came in?

23 Number two: Is the CEC appropriately
24 balancing the needs and opportunities for ZEV
25 infrastructure across the light- and medium- and

1 heavy-duty sectors? If not, what changes should
2 we consider?

3 And finally: Does the investment plan
4 reflect the needs of low-income, disadvantaged,
5 or underrepresented Californians and California
6 communities? If not, what changes should we
7 consider?

8 So for the discussion period, we're going
9 to give each member up to three minutes. You
10 don't have to use the full three minutes but each
11 person will have up to three minutes. And then
12 we're going to have sort of like a lightning
13 round at the end where everybody gets one minute
14 just to -- you know, after you've reflected upon
15 what others have said, anything you want to
16 particularly highlight to us, you'll have an
17 opportunity to do that. So this is not your
18 first bite at the apple.

19 So I'm going to give you all a chance to
20 kind of mull this over. And just raise your hand
21 and we'll just go in the order of hands raised.
22 But I do want to make sure that every Member of
23 the Advisory Committee speaks.

24 I know it's hard to be first. Mary's
25 hand is up but I think it's a residual hand up.

1 Unless you want to go first, Mary?

2 COMMITTEE MEMBER SOLECKI: Well, it was a
3 residual, but I'm more than happy to be the first
4 one.

5 What I was reflecting on while reviewing
6 the infusion of funding is that -- and I'd be
7 interested to see some analysis on this that I'm
8 sure CEC has in terms of where and how to get the
9 fastest and biggest impacts on air quality for
10 disadvantaged communities. And I can see that
11 there is more funding going towards the heavy-
12 duty sector than light-duty. But I was wondering
13 about even putting more of the funding towards
14 heavy-duty to try to offset some of those diesel
15 emissions that have the really bad air quality
16 impacts?

17 It's a just a question I'm pondering out
18 loud. You probably have more analysis that would
19 tell me whether this is the right balance or
20 whether there should be, perhaps, more emphasis
21 on the heavy-duty sector. But I'm inclined to
22 say that I think even more funding should go in
23 that category.

24 That's all for my comments.

25 COMMISSIONER MONAHAN: Lucas, and then

1 Casey.

2 COMMITTEE MEMBER ZUCKER: Thank you.

3 Yeah. Lucas Zucker, Policy Director at CAUSE.

4 We're an environmental justice organization.

5 I understand, you know, why in the staff
6 presentation we talked about these, you know,
7 large General Fund investments for context. But
8 I'm worried that it's a little bit obfuscating
9 the shifts that we're making specifically in the
10 Clean Transportation Program budget, which is
11 what our Committee is here to oversee, you know,
12 if we're not kind of taking credit for these
13 massive investments in both heavy-duty and light-
14 duty made by the Newsom Administration.

15 We can see the shifts that have actually
16 happened within our Clean Transportation budget
17 since we last met. And, essentially, what's
18 happened is we've slashed in half the investment
19 in heavy-duty. We've moved tens of millions of
20 dollars away from cleaning up diesel exhaust,
21 deadly diesel exhaust, you know, from heavy-duty
22 trucking through environmental justice
23 communities, like mine, into more light-duty
24 chargers for -- you know, that, frankly, we know,
25 you know, tend to disproportionately benefit

1 wider and wealthy individual EV owners.

2 And so I also want to say that, as far as
3 I can tell, since we last met there were no
4 changes made at all to the plan addressing the
5 issues raised by environmental justice advocates,
6 not addressing the harmful externalities of
7 biofuels in rural communities in the Coachella
8 Valley, not avoiding, you know, unintentional
9 housing displacement impacts near fast chargers,
10 and gentrifying areas that may happen not
11 investing in zero-emission public transit
12 infrastructure for community members who can't
13 afford cars.

14 You know, and I understand that some
15 voices are louder than others and, you know, and
16 when political decisions are being made. But I'm
17 honestly surprised at the extent that that was
18 true in this plan version and the revisions.

19 And you know, I just want to say, the
20 communities impacted by heavy-duty transportation
21 emissions near ports, warehouse, and truck routes
22 are often referred to as diesel death zones.
23 We're called that because people in low-income
24 communities of color, like West Oakland,
25 Wilmington, like Logan, and South Oxnard are

1 dying from the high cancer rates caused by diesel
2 exhaust from heavy-duty transportation, you know?
3 And this version of the Clean Transportation
4 Program budget has, unfortunately, chosen to
5 disinvest from their health and their lives.

6 And so, you know, I really want to
7 emphasize that investments in the heavy-duty side
8 meet the greatest financial and technological
9 challenges. They have much bigger impacts on air
10 quality and health, and much bigger impacts in
11 terms of equity and environmental justice. And
12 so I do think it's going to be harder for the CEC
13 to meet its equity goals in the Clean
14 Transportation Program with this massive shift
15 from heavy-duty to light-duty. It's easy to get
16 50 percent of investments in DACs when you're
17 focused on cleaning up heavy-duty because almost
18 all ports and truck routes and logistic hubs are
19 in DACs that are choked with diesel exhaust.

20 But when we talk about chargers for
21 light-duty personal (indiscernible) it's not only
22 about making sure they go into DAC neighborhoods,
23 you know, many of these chargers may end up
24 physically locating in a DAC census tract,
25 according to CalEnviroScreen, but may still be

1 predominantly used by middle- and upper-class
2 consumers who can afford (indiscernible). And
3 there may be times when these investments can
4 even do harm to low-income families nearby who
5 are renters and may take these rising rents and
6 housing displacement (indiscernible) landlords
7 see how to value in their proximity into fast
8 chargers.

9 And so, you know, so far the state has
10 struggled tremendously to meet its equity goals
11 in light-duty. And I think we can expect those
12 same challenges to continue. And so I think we
13 need, really, to ask ourselves, you know, how
14 will the CEC assess who's actually benefitting
15 from light-duty charging investments? Is it
16 only, you know, based on demographics and census
17 tracts where a charger is physically located?
18 You know, how are we going to assess who's
19 actually using this infrastructure, who might be
20 unintentionally harmed?

21 You know, so I would really encourage us
22 to, you know, put more of those resources back
23 into heavy-duty, like the original version we
24 saw.

25 You know, one bright thought I want to

1 commend Staff on is the increase in funding for
2 workforce development. I think that's really
3 valuable and is going to have some real equity
4 benefits. But I just have to be honest and
5 express my disappoint in this version of the plan
6 from an equity perspective.

7 COMMITTEE MEMBER THOMPSON: Thanks Lucas.
8 So we have Casey, and then Tracy.

9 COMMITTEE MEMBER GALLAGHER: Good
10 morning. It is still morning. Casey Gallagher
11 with the California Labor Federation.

12 First of all, I'd like to commend the CEC
13 and the staff on the work on this report. And in
14 particular, I'm going to be focusing on question
15 number three. I'm going to be submitting formal
16 comments for the Labor Fed for questions one and
17 two, and then additional issues or comments we
18 would like to add to the general report.

19 Focusing on number three, I do appreciate
20 the addition of the added metrics of both
21 quantitative and qualitative of metrics of
22 focusing on different aspect of, say, equity
23 inclusion. As I review this, I'm looking at the
24 commitment to inclusion, diversity, and equity,
25 and access page within the report as it points

1 out there is, like, where investments have
2 happened in, I'll say, low-income and
3 disadvantaged communities in particular.

4 What would be helpful to know is what
5 form of not just investments but what kind of job
6 creation has actually been developed? And what
7 is the quality of those jobs?

8 And thinking about that and looking back,
9 like later in the report, highlighting some of
10 the things that, for example of, in Larry
11 Rillera's report on community benefits, really,
12 really exploring what are the community benefits
13 that have been created out of this? Those things
14 have been mentioned. But like, for example, I
15 would like to know more on what has been
16 developed through the IDEAL Community
17 Partnership's Project. I think there's a lot of
18 benefits that can be highlighted out of that.
19 And kind of what's the relationship and who are
20 the partners within the Foundation of Community
21 Colleges within that partnership?

22 One think I would also like to see is if
23 there's any kind of encouragement or
24 recommendation within the procurement for like
25 highlighting and advancing higher training

1 partnerships, as well as former agreements that
2 are connected to the advancement of community
3 equity, such as, say, community benefits
4 agreements, community workforce agreements,
5 project labor agreements, and other high-road
6 procurement kind of practices, similar to what
7 was done with SB 100, 100, I believe, with the
8 electric school buses within California?

9 I know I'm running out of time but one of
10 the things I would like to highlight is you
11 already highlight and lift up certain
12 arrangements that bring employers, community, and
13 labor, and kind of really highlighting and kind
14 of pointing out the role that community benefits
15 agreements have raised and, actually, been
16 implemented in such as the relationship, say,
17 between Proterra and the Steelworkers, or BYD and
18 Local 105, that it's not just a relationship
19 between, say, labor and employers but, also,
20 community to really expand these opportunities
21 within the production of ZEVs.

22 Thank you. And I'll be submitting my
23 comments written to you.

24 COMMISSIONER MONAHAN: Thanks Casey.

25 So we have Tracy, and then on deck,

1 Morgan and Sydney.

2 COMMITTEE MEMBER STANHOFF: Hello. Tracy
3 Stanhoff.

4 I would like to echo the thoughts on the
5 move for more money for workforce development. I
6 think that's important as we go forward for an
7 equity issue. That will get more people trained
8 into these new technologies and so forth.

9 And then, of course, we're just wanting
10 to see where the budget weighs out as far as, for
11 questions one and two, how it's going to effect
12 tribal communities and rural communities in our -
13 - or even urban people as we have pockets of our
14 urban American Indians lining freeways and in
15 communities that line freeways. And that's
16 always been a challenge with heart disease and
17 lung disease just around regular freeway issues
18 here in California with our tribal communities.

19 So anyway, I'm going to give back a lot
20 of time. I took only, let's see, I'm talking real
21 slow, 50 seconds. Thanks.

22 COMMISSIONER MONAHAN: Thanks Tracy.

23 All right, we have Morgan, Sydney, and
24 then Eileen.

25 COMMITTEE MEMBER CASWELL: Good morning.

1 My name is Morgan Caswell. I work for the Port
2 of Long Beach. I just want to say thank you for
3 the opportunity to comment on the Investment Plan
4 for the Clean Transportation Program.

5 I would like to start by saying this was
6 really thoughtfully developed. And I commend CEC
7 Staff for their work on this update.

8 I would like to focus my comments on the
9 first question, and more specifically, the
10 medium- and heavy-duty vehicles and
11 infrastructure allocations for years 2021 to 2024
12 that is not specifically allocated to drayage,
13 transit, and school buses. These dollars are
14 front-loaded in years 2021 to 2022. And only
15 \$43.8 million will be available for terminals.

16 In particular, to apply for years 2022 to
17 2024, for context, we believe, here at the Port
18 of Long Beach, we'll need \$800 million to
19 transition our operations to zero emissions, and
20 that's just for cargo handling equipment. Front-
21 loading these dollars will severely limit
22 seaports and their terminal operators abilities
23 to apply and secure infrastructure dollars to
24 fuel the zero-emission cargo handling equipment
25 from this program.

1 Most of our terminals are still
2 demonstrating zero-emission cargo handling
3 equipment which has not yet been proven as fully
4 feasible for large-scale deployments, and we're
5 not done. We need more demonstrations of
6 innovative charging systems, hydrogen fuel cell
7 equipment, in particular, energy management
8 systems, and second and third generation battery-
9 electric equipment. Large-scale infrastructure
10 projects will not be feasible until the
11 technology has advanced and terminal operators
12 have developed comprehensive infrastructure
13 master plans.

14 Fortunately for us, we were recently
15 notified that our Zero-Emission Infrastructure
16 Master Plan for our Pier J Terminal is proposed
17 for award under the EV Ready Communities
18 Blueprints, Phase II. And I just want to take
19 the opportunity to thank CEC for this
20 opportunity.

21 Our plan is estimated to cost \$1.8
22 million and will include things like equipment
23 specifications, operational configurations and
24 site layouts, detailed infrastructure design,
25 rough order of magnitude costs per

1 infrastructure, energy management strategies, and
2 an implementation schedule. We will need
3 additional terminal-specific infrastructure plans
4 for our other operators. This work really needs
5 to be done before our tenants can take advantage
6 of infrastructure funding to make our zero-
7 emission terminal operation goal a reality.

8 I'd just like to respectfully encourage
9 the CEC to spread out the medium- and heavy-duty
10 vehicles and in fact dollars across all three
11 years to continue to fund planning activities so
12 that terminal operators, as well as other
13 stakeholders such as trucking companies, can be
14 well prepared to strategically build out
15 infrastructure and to continue to fund
16 demonstration projects.

17 Thank you.

18 COMMISSIONER MONAHAN: Thanks Morgan.

19 I wanted to just respond, quickly, that
20 some of the reason we're front-loading some is
21 just because this legislature gave us this money
22 to share, but I hear your concern.

23 All right, we have Sydney, Eileen, and
24 Rey.

25 So, Sidney, you're on next.

1 COMMITTEE MEMBER VERGIS: Great. Well,
2 thank you for your time.

3 So I am the Division Chief overseeing the
4 Mobile Source Control Division at the California
5 Air Resources Board. Really, what that means is
6 that MSCD's portfolio includes medium- and heavy-
7 duty vehicle regulations, as well as many of
8 CARB's vehicle and equipment incentive programs.
9 So when it comes to thinking through with you the
10 priorities for future investments, there are two
11 main themes that I really wanted to lift up here,
12 one is equity, and the other is medium- and
13 heavy-duty infrastructure.

14 So on the equity side of things, we still
15 have 75 percent of California's population that
16 is still breathing unhealthy air. And every
17 year, thousands die prematurely due to air
18 pollution, which is completely unacceptable. So
19 the needed transition to really accelerating the
20 use of zero-emission technologies and the air
21 quality and health benefits they provide is
22 really of an unprecedented scope and scale. So
23 we're going to need every tool in the toolshed to
24 get there. So targeting equity investments that
25 would really benefit from public investment, as

1 well as prioritizing your outreach efforts, which
2 you're doing, and invest the commitments to
3 funding projects and benefitting disadvantaged
4 communities are really critical components of
5 this plan.

6 On the medium- and heavy-duty zero-
7 emission infrastructure side, we are all
8 embarking together on the zero-emissions
9 transformation of the goods movement system in
10 California. And of course, as I mentioned, we're
11 doing this because it's absolutely necessary for
12 community health. So the transformation and
13 commitment to zero-emission infrastructure needs
14 absolutely has to be a public-private
15 partnership. And where the state will chip in,
16 especially in the early years to help get this
17 market started, is really critical, as you've
18 highlighted in this plan. And we also really
19 need the private sector to step up, as well,
20 OEMs, utilities, EVSE providers, et cetera.

21 I think it's really important to flag
22 that heavy-duty zero-emission trucks are here,
23 and more are coming.

24 On the vehicle side of things, the
25 legislature appropriated over \$800 million to

1 heavy-duty and off-road zero-emission equipment
2 in Fiscal Year 2021-22. And that doesn't include
3 the over \$500 million in incentive dollars going
4 to local air districts that could also be used
5 for this purpose.

6 On the regulatory side, starting in 2024,
7 per regulation, Class 2B to Class 8 zero-emission
8 tractors will be required to be sold into
9 California. Based on this regulation and the
10 Advanced Clean Truck Regulation, over 300,000
11 zero-emission trucks will be coming to California
12 by 2035. So the multi-year commitments outlined
13 in the Investment Plan allocations and committing
14 \$373 million in Fiscal Year 2021-22 alone is such
15 a great contribution towards catalyzing the early
16 heavy-duty zero-emission market.

17 So with that, I also wanted to add that I
18 really appreciate all the collaborative work that
19 Staff has put into developing this plan. It's
20 not an easy lift, so a big thank you.

21 COMMISSIONER MONAHAN: Thanks Sydney.
22 And we appreciate all the collaboration our
23 agencies have been having in terms of giving out
24 grants. We're trying to make it easy for the
25 public not to see us as two agencies but one

1 unified state.

2 So we have Eileen, then on deck, Rey and
3 Sam from UCS.

4 COMMITTEE MEMBER TUTT: Thank you. This
5 is Eileen from the California Electric
6 Transportation Coalition.

7 And I just want to say that something
8 that Lucas Zucker said earlier really struck me,
9 and that was that the funding for MHD has been, I
10 think he said, slashed, which I think is really
11 an underrepresentation of what happened. And I
12 just want to say, being front, tip of the spear,
13 fighting for this additional money that we got
14 this year, which was very substantial, first-
15 time-ever investment in infrastructure from the
16 General Fund over a period of time that's
17 reliable, was in this budget. And the vast
18 majority went to medium- and heavy-duty vehicles.

19 So the idea that the money wasn't just
20 not slashed, it was actually substantially
21 increased, and that was a result of, I believe,
22 Lucas's and mine and others huge effort in the
23 legislature and with the administration to
24 allocate more funding to medium- and heavy-duty
25 and zero-emission vehicle transitions.

1 The idea that we don't need any light-
2 duty investments is a little worrisome to me
3 because we are so far away from meeting our
4 light-duty infrastructure needs. And even the
5 investments that have been made thus far, many
6 people who drive electric vehicles right now of
7 all different household income levels don't feel
8 that there's enough infrastructure out there.

9 And for people in multi-unit dwellings or
10 living in rental units, or homes that don't have
11 access to off-curb parking, there's a whole lot
12 of investment needed to make sure that these
13 light-duty vehicles that go into these
14 communities have access to charging
15 infrastructure. And, in fact, all of the lessons
16 learned on the light-duty investments, and
17 investments in vehicle and infrastructure,
18 translates to medium- and heavy-duty.

19 So not only am I very supportive of the
20 allocations here, I am absolutely certain that
21 you got them -- they aren't entirely right, and
22 that's why we review this plan every year. But I
23 do think the allocations to light-duty and
24 medium-duty are sufficient for this year, in
25 fact, well beyond anything we ever anticipated.

1 So I just want to thank the Energy
2 Commission and all of those, many of whom are not
3 here on this Advisory Committee, who worked hard
4 to get more money. And we will do that again
5 next year. We fully intend to continue these
6 allocations, and not just for medium- and heavy-
7 duty but, also, for light-duty, so that we really
8 can meet the state's goal of 100 percent, which
9 is going to be extremely challenging.

10 So let's not pit medium- and heavy-duty
11 ZEVs against light-duty. Let's recognize the
12 investment needs for both and prioritize
13 communities and equity in both because we are
14 nowhere near equity on the light side, and we
15 have a long ways to go on the medium side, too,
16 but this Investment Plan represents, I think, a
17 very fair balance, so thank you.

18 COMMISSIONER MONAHAN: Thanks Eileen.

19 So we next have Rey, then Sam, then
20 Kevin.

21 COMMITTEE MEMBER LEON: Hello. Rey Leon,
22 the LEAP Institute, Latino Equity Advocacy and
23 Policy. Good morning, Patricia. Good to see
24 you. And greetings to everybody. I'm glad to
25 see other agencies in here as well.

1 And I just want to also emphasize that,
2 well, I see three points. This is all about
3 pollution and carbon reductions. This is about
4 advancement of climate residential
5 infrastructure. And this is about, also,
6 opportunities in workforce and education; right?
7 Those are my three main points.

8 PM2.5 is certainly a huge problem in low-
9 income communities and environmental justice
10 communities, in the ports, certainly, also in the
11 region of the San Joaquin Valley where have
12 two -- what I call the two main veins of
13 pollution, 99 and the I-5, and also communities
14 like my own, Huron, which are, in a way, land
15 ports. On a daily basis, we are shipping out
16 tons and tons of tomatoes, of cantaloupe, of
17 numerous types of produce. If you've eaten pizza
18 or pasta, you've eaten a Huron tomato, most
19 likely. But that is bringing in a lot of
20 pollution into the community.

21

22 So, certainly, I see the need of more
23 investment in heavy-duty. In terms of how that
24 happens, I think I'm kind of detached on the
25 details of what's -- how it's being put forth,

1 but certainly we need that.

2 The other things is in regards to light-
3 duty. You know, Huron has the most electric
4 vehicle chargers for a city per capita in the
5 nation. I've shared that with folks before. But
6 what I've noticed is that the incentives, the
7 subsidies, the deals provided are still
8 insufficient for the families in my community,
9 the arborists that provide the food that, I'm
10 sure, most you eat on the daily, whether it's a
11 salad, again, pizza, pasta, tomato sauce; right?
12 And so we've still got to work on that.

13 I think CEC could participate in ensuring
14 that every family that qualifies get an extra
15 plug into their home, and a charger once they,
16 you know, bite the bullet to purchase a vehicle.
17 But I think ARB also needs to do some work in
18 terms of -- and I've got some ideas on how to
19 make that happen. Because if you're part of the
20 CARE Program in PG&E, then what if you had a card
21 that you could use to charge your vehicle, and
22 then you also get an incentive to be able to, you
23 know, charge your vehicle; right? There's a
24 bunch of things. I've got a laundry list of
25 things that could happen for that.

1 So if we could get low-income
2 communities -- and I have to disagree with the
3 sister before me in terms of a lot of low-income
4 people having EVs, that's not the case. And I
5 could tell you that because in my city I see it
6 and in my region I see it. And we need to do
7 some more work in that arena.

8 In terms of workforce and education, I
9 mean, we need more opportunities for the folks to
10 come onboard. I mentioned microgrid earlier. We
11 need to really be able to bring onboard
12 farmworkers due to the fact that the drought has
13 impacted employment hugely in our region. And if
14 we could transition them to clean energy, which
15 is through one of our programs we're trying to
16 do, we could create opportunities for families.
17 And at the end of the day, education is a great
18 equalizer.

19 So if we're able to also provide
20 scholarships for students that are interested in
21 clean energy, that are interested in this type of
22 work, from high school, then provide them a
23 little leg up and interest in the future of what
24 California is leading, right, internships and
25 fellowships in the clean energy industry,

1 incentive these industries to be able to provide
2 them for communities that are not fairly
3 represented in the industry.

4 Latinos are 40 percent of California.
5 We're not 40 percent of the clean energy
6 industry, or even the agencies that are leading
7 this work. And I think that's a way, if you
8 represent, also, and impact fully, environmental
9 justice communities by incorporating the
10 communities in the process thereof and the
11 leadership of this great work.

12 The unemployment; right? Also in the
13 agencies, clean energy, the Commission and these
14 others, and so forth.

15 But those are my main three points.
16 Thank you.

17 COMMISSIONER MONAHAN: Great. Thanks
18 Rey.

19 All right, next, we have Sam.

20 COMMITTEE MEMBER HOUSTON: Thank you,
21 Patty. It's nice to be with you, and nice to be
22 with everyone this morning. I'll just start with
23 a note of appreciation for those who have already
24 offered their comments so far.

25 I wanted to give get a high-level note of

1 support about the concept of front-loading,
2 noting that the urgency with which we need to
3 reduce greenhouse gases, and the very acute
4 urgency with which we need to reduce health-
5 harming pollution, I think really speaks to the
6 fact that front-loading these investments makes
7 sense and is necessary. Every greenhouse gas
8 and, you know, health-harming pollutant we reduce
9 now reduces the cumulative impacts of those
10 things over time. And so I wanted to make a
11 general note of support about that.

12 As part of that, I think the concept of
13 future-proofing is also really important. And,
14 of course, some of the details about that will
15 come down the line through the solicitations and
16 whatnot. But I just wanted to pick up on the
17 point about vehicle grid integration broadly, and
18 many have alluded to this in conversations about
19 microgrids, that I would really like to see those
20 kinds of things built in as expectations, at
21 least for capability, if not for full-on
22 implementation as these dollars get spent so that
23 the infrastructure can continue to be useful and,
24 indeed, do more and more to support the grid and
25 save consumers money, save this money over time.

1 You know, it's certainly not lost on me
2 the comments about needing to give actors who
3 need to move later or need to have planning, like
4 courts (phonetic), that, you know, we'll need to
5 provide support and certainty for them down the
6 line. I don't think these two are totally
7 antithetical. But it also highlights the need
8 for all of us to continue to push as hard as we
9 can to continue making dollars available for
10 these activities, you know, beyond the scope of
11 this current budget. There's certainly more work
12 to do for all of us.

13 On the equity metrics, I'm also very
14 encouraged by the commitment in broad strokes to
15 include metrics beyond just geographic location.
16 I think that's really important, you know,
17 spending some time on this myself, trying to
18 support efforts around that as part of the EV
19 Strike Force, and in other spaces, as well.

20 And on that I would say we shouldn't,
21 really, even just be looking at charger access
22 but equity metrics where workforce and economic
23 empowerment can come into play in the
24 infrastructure installation itself and not just,
25 you know, holding that aside for the workforce

1 programs.

2 And I would say, as we develop these
3 metrics and other ways to assess the ways that
4 programs are benefitting communities, I would
5 encourage the CEC and stakeholders to also have a
6 backwards sort of perspective as well. You know,
7 we saw in the slides, 50 percent of the
8 investments to date have been in the current
9 equity designated communities. But as we get
10 more meaningful metrics can we continue to look
11 back and assess the benefits have been, even on
12 dollars that have already been out the door, to
13 continue to identify gaps where communities are
14 underinvested?

15 Thank you.

16 COMMISSIONER MONAHAN: Great. Thanks
17 Sam.

18 So next, we have Kevin Hamilton, we
19 have -- and we have Zac and Tyson on deck.

20 So, Kevin, you're turn.

21 COMMITTEE MEMBER HAMILTON: Hi. Good
22 morning. And thank you for the presentation
23 today, and your time. I have a couple of points
24 to make with regard question number one.

25 As far as appropriately account for the

1 availability as it spends down the money, there
2 will never be enough money here, I think, for I
3 don't know how many years to come. So it's
4 really hard to say that, you know, enough is
5 enough or that something reflects the
6 availability of it. Well, it uses it all, so I'm
7 not sure what you could do to change that.

8 I do want to reflect the comment that
9 this idea of this contest between light- and
10 medium-duty and heavy-duty needs to stop. We
11 need to do both. There's certainly some urgency
12 around heavy-duty, for those of us in those
13 freight corridors, no doubt about that. And I
14 think that there is a due diligence on that that
15 continues and that the plan adequately reflects
16 that.

17 However, I don't feel that the needs of
18 low-income or disadvantaged or unrepresented
19 Californians and communities are adequately
20 assessed here in order to put together a solid
21 Investment Plan. So we need to do a lot better.

22 And CEC could do a lot better by spending
23 more time talking to organizations and residents
24 in these various communities and counties to find
25 out what they think they need. What is it that

1 it would take for them to have an infrastructure
2 that would support this future of their driving
3 an EV, whether it's a truck because they own a
4 truck and that's the income for the whole family,
5 or is it simply the cars that get them to work?
6 Because, again, these other transportation
7 strategies aren't going to really benefit them
8 when they live 50 miles from a major metropolitan
9 area and they all go to work at different places
10 at different times of day. So that solution is
11 sort of alluding us there.

12 I think one of the main problems that we
13 see, and it crops up over and over again, we all
14 know the future of charging is, at the very
15 least, easy fast charging. We want the average
16 person to feel like they can trust this kind of
17 thing when they're away from home, and it's going
18 to be access to those. Yet we identify sites and
19 we say, we need the infrastructure there, and the
20 first thing we find out is that there's not the
21 core infrastructure, which is access to that 460
22 three-phase power (phonetic) that is really
23 needed. So if I go out to Huron and I want to
24 put in a lot of DC fast chargers, I'm going to
25 run out of that DC fast charger core power really

1 quickly.

2 So really focusing on getting that higher
3 level of voltage out there to convey the power to
4 those communities is a critical first step.

5 Again, we're not going to make this transition if
6 we put a bunch of Level 1 and 2 fast chargers out
7 in these communities everywhere.

8 So that would be my recommendation to the
9 plan. Thank you.

10 COMMITTEE MEMBER LEON: Solar microgrid
11 with storage, Kevin.

12 COMMITTEE MEMBER HAMILTON: You know I
13 agree with you, brother.

14 COMMITTEE MEMBER LEON: Right on.

15 COMMISSIONER MONAHAN: All right. Thanks
16 Kevin.

17 So next, we have Zac Thompson, then we
18 have Tyson and Daryl on deck.

19 Zac?

20 COMMITTEE MEMBER THOMPSON: Yeah. Hi
21 everyone. Zac Thompson with East Bay Community
22 Energy. Thanks for this super detailed
23 presentation. You know, I'm still sort of
24 processing all this information and these new
25 numbers, so I'll have much more detailed comments

1 that I'll submit to the docket. But I'll keep it
2 pretty brief for now.

3 I'm definitely happy to see how these
4 General Funds have been incorporated into the
5 program, very supportive of that, particularly in
6 the medium- and heavy-duty section, and in the
7 light-duty charging infrastructure section.

8 The one thing I would maybe question is
9 whether some more dollars should be allocated to
10 the workforce training and development section.
11 One thing that we've heard in talking to
12 stakeholders, particularly in the medium- and
13 heavy-duty sectors, that, you know, they do need
14 some help in the workforce area here. So maybe
15 if more funds would be allocated to that, that
16 could be helpful -- (clears throat) excuse me --
17 particularly up front.

18 But, yeah, otherwise every supportive.
19 And thank you all for the presentation, and for
20 your time.

21 COMMISSIONER MONAHAN: Excellent. Thanks
22 Zac.

23 All right, we have Tyson, and then Daryl
24 and Michael on deck.

25 Tyson, over to you.

1 COMMITTEE MEMBER ECKERLE: Great. All
2 right. Thank you very much. And, as always,
3 great job with the plan. I think it's really
4 well done.

5 And maybe, Zac, just to play off what you
6 were talking about, the workforce, I think it's
7 important to look at this in the context of the
8 entire budget and the money that's gone to it
9 like, you know, through the labor agency. And I
10 think as a collective we need to figure out how
11 to leverage that a little bit more, as well.

12 And kind of same thing as like, you know,
13 on the equity front with investments in public
14 transit, there's a big investment here in public
15 transit from Energy Commission and Air Resources
16 Board. And we also have CalSTA which set \$470
17 million for the TCRIP [sic] project, which can
18 invest in zero-emission buses and trains and
19 upgrades. So I think it's important to look at
20 this in context. And so I think, you know,
21 leveraging.

22 Eileen would say, this budget is a big
23 deal, and I think, you know, the Investment Plan
24 definitely reflects what was in the budget, what
25 was directed by the legislature and signed by the

1 Governor, so that's really exciting.

2 I think on the, you know, the light-duty,
3 medium- and heavy-duty, we tried to get that
4 right as a collective. I think this reminded us,
5 I think, we're investing in a system, you know,
6 like all of these things, getting more battery
7 cars out there. And the light-duty sector helps
8 get more batteries in the supply chain for
9 medium- and heavy-duty. Same with hydrogen with
10 the interplay between light- and heavy-duty
11 driving down component costs and driving down
12 supply costs.

13 And then question three, that's always
14 hard; right? Making sure that we take care of
15 everybody, that is a very hard thing to do. And
16 I think in the development of the budget, you
17 know, we're really focused in on those heavy-duty
18 corridors and the transit, and make it clean cars
19 for all expansion. So looking at it
20 wholistically, you know, I think it does a good
21 job but we're always looking to do better.

22 And I think -- and I really commend the
23 Energy Commission for pulling together the
24 stakeholders to get the feedback. And so, you
25 know, I think it's really good to hear from the

1 other Advisory Committee Members with deep roots
2 in the, you know, the communities we're trying to
3 reach, and so that's really helpful.

4 So but just in closing I think, you
5 know, especially the coordination across agencies
6 with the Energy Commission and CARB, and CalSTA
7 with the big money, kind of working together and
8 trying to make it, you know, one state picture
9 for an end user is really important to keep doing
10 in the implementation of things. So, and yeah, I
11 think this is a really well done plan. I'm
12 excited to work in getting it implemented.

13 COMMISSIONER MONAHAN: Great. Thanks
14 Tyson. And thanks to you, personally, with your
15 leadership with the ZEV market development and
16 strategy in helping all of us collaborate
17 together to make sure that we reach our state
18 goals.

19 All right, so next, we have Daryl
20 Lambert. And Michael and Robert are on deck.

21 Daryl?

22 COMMITTEE MEMBER LAMBERT: Good morning
23 everybody. Daryl Lambert with Rising Sun Center
24 for Opportunity.

25 First of all, I just want to applaud the

1 increase in the workforce development funds, the
2 allocation. I do agree with many of the other
3 commenters that that needs to be more. I'd like
4 to see more of that.

5 And I think in direct response to
6 question number three, reflecting the needs of
7 low-income, disadvantaged, and underrepresented
8 Californians and California communities, I think
9 there's a lot left on the table here when it
10 comes to workforce development and training that
11 we're not taking advantage of. I'd really like
12 to see the investments in community colleges and
13 the education system. But I think there are
14 several mechanisms that have held up by other
15 communities, you know, community benefit
16 agreements, project labor agreements that are not
17 mentioned anywhere in the report or in the plan.

18 And, also, you know, I think we're
19 missing an opportunity to really elevate the hire
20 and training partnership model as a way to focus
21 on the workforce system, connecting it with the
22 employers and preparing folks for jobs that exist
23 where the demand is needed. I'd like to see that
24 mentioned more. If we can make that happen?

25 And, finally, I think I would like to see

1 a more built-out plan in the plan related to
2 workforce training and development. It's still
3 very brief. It still focuses on three things
4 that have been done in the past, and what the
5 plans are in the future, but it's not very
6 concrete.

7 And I think I would like to see or I
8 would like to see some mention or focus on
9 working with pre-apprenticeship or other programs
10 that really focus on connecting with low-income,
11 disadvantaged, underrepresented Californians and
12 providing a basis for foundational skills to
13 allow them to access the very well established
14 apprenticeship programs that exist in the state
15 of California where you can begin to work, earn
16 and income, start receiving benefits while you're
17 launching your career and beginning to build
18 those skill sets that will result in a long-term,
19 rewarding, fully benefitted career. So I'd like
20 to see that called out a little bit more.

21 So thank you very much for your time. I
22 look forward to hearing the rest of the comments.
23 And I will cede the rest of my time to other
24 Advisory Committee Members.

25 COMMISSIONER MONAHAN: Thanks Daryl.

1 All right, we have Michael, and then
2 Robert and Katherine on deck.

3 Michael?

4 COMMITTEE MEMBER PIMENTEL: Well, thank
5 you, Commissioner Monahan, for the opportunity.
6 Folks, this is Michael Pimentel, Executive
7 Director of the California Transit Association,
8 representing 200 member organizations in the
9 transit industry, including 85 transit and rail
10 agencies across the state. And I greatly
11 appreciate the opportunity to participate in this
12 forum on behalf of our industry and to provide
13 comment today.

14 As you know, California's transit
15 agencies are required, per ARB regulation, to
16 transition their bus fleets to zero-emission
17 technologies by 2040, with purchase requirements
18 beginning at the largest agencies in the state as
19 soon as 2023. Now the regulation does include a
20 series of provisions that encourage transit
21 agencies to take early action and that target
22 those early actions in areas of nonattainment for
23 the purposes of the Federal Clean Air Act.

24 So with that, I just assert that, I
25 believe, it's appropriate that the CEC front-load

1 the investments in the medium- and heavy-duty
2 sector.

3 And I would just also acknowledge that
4 we, like the very stakeholders on today's call,
5 will, of course, be mobilized with the
6 legislature in coming years to make sure that
7 there isn't a drop off in funding and that, in
8 fact, we are meeting our funding needs in those
9 out years.

10 Now for me, I would say that it is a bit
11 difficult to respond to the question of whether
12 the funding is being rightly applied between
13 purposes, particularly within the medium- and
14 heavy-duty sector in ways that benefit
15 disadvantaged communities and low-income
16 communities, because we have not seen, yet, the
17 proposed programmatic allocations for this for
18 this funding. You know, we're talking generally
19 about sectors, less about programs and specific
20 uses.

21 Of course, I want to acknowledge the set
22 aside that is noted for transit. But in the
23 absence of the more, you know, general
24 programmatic breakdown, I'll just emphasize a few
25 points.

1 One is the importance of the state
2 continuing to weight its investments for
3 purposes, like public transit, that will deliver
4 co-benefits beyond just a reduction of emissions
5 from the vehicle technologies themselves.
6 Transit, as you know well, delivers mobility
7 benefits, particularly to disadvantaged and low-
8 income communities. The average bus rider in Los
9 Angeles, for example, and Los Angeles has the
10 largest agencies within the state, carries the
11 most people, is just under \$15,000 annually.

12 Additionally, public transit is a service
13 that is actively reducing VMT and congestion, and
14 with continued investments in this charging
15 infrastructure, the vehicle technologies that
16 come from ARB that allows our agencies to
17 continue to apply their monies from the federal
18 and state governments toward maintaining and
19 expanding operations.

20 Now as this plan moves forward and the
21 programmatic details are flushed out, I would
22 encourage the CEC to continue to investment in
23 supporting the large-scale transition of (gap in
24 audio) to scale. Zero-emission transit fleet
25 infrastructure deployment project is a good

1 vehicle for that.

2 And then finally, in closing, I would
3 continue to elevate the importance of investments
4 to support resiliency projects, as well as
5 storage or DG solutions that guard against grid
6 disruption. I think this is one of the areas
7 that both the state and federal governments have
8 not focused enough on. But certainly, we're
9 going to come to a point where we're not making
10 those investments, we have wildfires, we have
11 earthquakes that down the grid. We're going to be
12 in significant challenges, whether it's for
13 public transit or any other form of medium- and
14 heavy-duty sector, and that is going to be
15 relying on grid technology.

16 COMMISSIONER MONAHAN: Great. Thanks
17 Michael. Really appreciate the comments.

18 And I've got to say, I'm excited that the
19 legislature and the Governor have put specific
20 targets for both CARB and the CEC in terms of how
21 many transit buses, 1,000 transit buses, 1,000
22 school buss, 1,250 drayage trucks. I mean, that
23 gives us specific targets that we're going to be
24 really aiming to make sure that we're able to
25 fulfill.

1 And I do want to emphasize, also, that
2 we're in the medium- and heavy-duty space, you
3 know, with transit. We're looking at both fuel
4 cell electric and battery-electric technologies
5 as viable.

6 COMMITTEE MEMBER PIMENTEL: Yeah.
7 Absolutely. If I can just remark on that and
8 just note that, you know, from my association's
9 perspective, we are a technology-neutral
10 association, so appreciate that continued
11 emphasis at this point.

12 COMMISSIONER MONAHAN: Great. Thank you.

13 All right, next, we have Robert Meyer.
14 And Katherine and Kevin [sic] are on deck.

15 COMMITTEE MEMBER MEYER: Good morning.
16 Thank you very much, Commissioner Monahan, for
17 the work of you and your team on the presentation
18 and the Investment Plan update.

19 I did want to thank, also, Larry Rillera
20 and Tami Haas for continued partnership in
21 alignment with workforce development
22 opportunities on behalf of ETP.

23 Specifically regarding questions one and
24 three, we are definitely glad to see additional
25 funding for workforce training and development,

1 as well as the expanded emphasis on equity and
2 economically disadvantaged communities
3 represented across the plan. We are very
4 interested to see what the outcomes are going to
5 be on this emphasis and, in general, learning
6 more about the programs that will directly impact
7 equity outcomes.

8 Relative to CTP, we're going to continue
9 looking at funding opportunities to address
10 workforce training for both public and private
11 transit fleet adoption in logistics sectors and
12 public transit sectors, as well as a continued
13 emphasis on ZEV infrastructure manufacturing
14 deployment and ZEV vehicle manufacturing in
15 California. Our hope is to fund workforce
16 training that supports the public and private
17 employers deploying these technologies, and that
18 aligns closely with not on the Labor and
19 Workforce Development Agency but GO-Biz, Tyson
20 spoke earlier, as well as the Division of
21 Apprenticeship Standards, supporting pre-
22 apprenticeship and apprenticeship alignment, as
23 well as journey worker trainer for
24 electrification. The CEC and CARB program goals
25 as well.

1 Using our CORE Program funds, we're going
2 to award contracts for these manufacturers, and
3 look for the pre-apprenticeship and
4 apprenticeship workforce being supported. That
5 is a key for us for equity.

6 We're also looking at funding programs
7 through RESPOND (phonetic). We heard something
8 about national -- or natural disaster earlier.
9 We have funded programs dealing with stationary
10 power and electric vehicle infrastructure
11 manufacturing. So if you'd like more information
12 on that, that program specifically deals with the
13 economic impact of natural disasters, including
14 earthquake, fire and, importantly, drought in the
15 Coachella Valley.

16 A new announcement. We have
17 approximately \$55 million in General Funds that
18 are going to be deployed in two program areas
19 targeting job creation and expansion for high-
20 road employers and industries that -- we'll be
21 including IT, manufacturing, healthcare, among
22 others. These funds will also be partnered with
23 the extension of the contracted education
24 partnerships that ETP has to better serve job
25 creation for (indiscernible) business and high-

1 impact industry sectors. These General Fund
2 program guidelines will be approved at our
3 upcoming panel meeting on October 1st. And we
4 will then be going out for partners.

5 Lastly, we're looking for a wider lens
6 for serving economically disadvantaged
7 communities and furthering our efforts in
8 supporting the traditionally underserved
9 workforce populations. We are engaging
10 stakeholders, but we are going to seek additional
11 partnerships and organizations that can help
12 provide input on our policies to better serve the
13 traditionally underserved. And I would
14 definitely like to champion the comments of Casey
15 Gallagher and of Daryl of Rising Sun. And in all
16 disclosure, we've recently approved a comment
17 with Rising Sun and look for replicating that
18 model statewide in pre-apprenticeship training.

19 Thank you.

20 COMMISSIONER MONAHAN: Great. Thank you.

21 Next, we have Katherine Garcia, then we
22 have Will and Bill on deck.

23 So Katherine?

24 COMMITTEE MEMBER GARCIA: Hi everybody.

25 I'm Katherine Garcia. I'm the Sierra Club. And

1 I really want to thank the CEC for your work on
2 this comprehensive update today.

3 I also want to give a thank you to my
4 fellow Advisory Committee Members for taking the
5 time today to give such thoughtful comments.

6 So today, we come here, and really
7 appreciate the presentation. But looking back
8 over the years, you know, we've worked so hard to
9 ensure that we have the bull targets in place to
10 transition to zero-emission cars, trucks, and
11 buses. And we know that these historic policies
12 go hand-in-hand with tremendous investment in
13 charging infrastructure. That's how we are going
14 to get the transition we need during this climate
15 emergency.

16 I appreciate that you've highlighted the
17 funding for public transit and school buses. I
18 think that's so important. As we've said before,
19 clean buses are a win-win-win because they
20 improve air quality, reduce climate pollution,
21 and reduce VMT.

22 In addition, charging for medium- and
23 heavy-duty vehicles are absolutely critical as we
24 start to prepare for the beginning of the ACT
25 rule in 2024.

1 In terms of light-duty vehicles, I do
2 want to emphasize that car drivers really feel
3 they need to feel comfortable about charging
4 availability and feel confident that they're
5 going to find chargers. But given the limited
6 funding, I think that equity is just absolutely
7 key, and stakeholder engagement is critical. We
8 want to make sure to maximize the dollars,
9 maximize every dollar.

10 I appreciate the assessments that have
11 been completed. And I think we need to carefully
12 and strategically prioritize disadvantaged
13 communities to make sure that the light-duty
14 vehicle charging is placed in a way that really
15 prioritizes equity. And I agree with the
16 previous comments that we are going to keep
17 pushing and fighting for additional funding.

18 Thank you.

19 COMMISSIONER MONAHAN: Thanks Katherine.

20 All right, next on deck, we have Will
21 Barrett -- next, we have Will Barrett, not just
22 on deck. And then -- wait. Bill disappeared on
23 the hand. And then we have Bill and Alfred.

24 COMMITTEE MEMBER BARRETT: Thank you very
25 much. Will Barrett with American Lung

1 Association. And, largely, I'll be repeating a
2 lot of the great comments that people have made,
3 so I'll try to be brief.

4 Very much appreciate the conversation,
5 all the panelist discussions, and the staff's
6 work to kind of answer the questions.

7 I wanted to really, kind of question one,
8 agree with what Kevin said, you know, there's
9 never enough money. And we think that the best
10 way to get, you know, to the health benefits of
11 all of these investments is to get the money
12 moving as quickly as possible, get the projects
13 in the ground, get the clean air benefits moving.
14 So I'll just kind of repeat what I asked the
15 question about earlier on that front.

16 On question two, I think, you know, we
17 know that, from the air quality perspective, from
18 the public health perspective, that the heavy-
19 duty sector is dominating the harmful emissions
20 on-road, off-road. We know that these -- the NOx
21 emissions of diesel particulates are adding to
22 our air pollution burdens. We have the worst air
23 pollution in the United States. Despite decades
24 of progress, we still have a long way to go. So
25 these investments really are critical to

1 accelerating the benefits and getting us closer
2 and closer to attaining clean air standards.

3 We also know that the heavy-duty sector
4 is a dominant reason for so many health
5 disparities in California. And again, just
6 really want to emphasize the need to move the
7 funding quickly and equitably out so that we're
8 cleaning up the heavy-duty sector as rapidly as
9 possible.

10 That said, we also, you know, fully agree
11 that we need our light-duty vehicle sector, we
12 need the heavy-duty sector all moving to zero-
13 emission as quickly as possible. So I won't kind
14 of comment on the value of how much is going into
15 each.

16 My dog is a making a brief appearance
17 here. I apologize.

18 So the basic idea I wanted to just
19 emphasize on the equity piece is really
20 reiterating some of the comments that we need to
21 be really looking at, while the Energy Commission
22 is pushing towards 50 percent of investments in
23 disadvantaged communities, that should really be
24 the floor, making sure that we're exceeding those
25 goals, we're treating it as more than a goal, as

1 a standard, so that the investments we're making
2 are really moving towards putting our money where
3 the need is greatest.

4 And then the last thing I'll say is I
5 just wanted to flag, actually, the comment that
6 Sam at USC made, that really looking at a health
7 evaluation, both going forward, you know, what
8 could be accomplished, and looking back at what
9 the benefits of the investments we've made so
10 far, you know, have yielded in low-income
11 communities and in disadvantaged communities to
12 really make sure that these benefits are accruing
13 in those communities where they're needed most.

14 So with that, thank you all very much.
15 Much appreciated.

16 COMMISSIONER MONAHAN: Thanks Will.

17 I want to emphasize that I welcome pets
18 and children in Zoom videos, so it's one of the
19 benefits that I see your dog. What a cutie.
20 Yeah, it's whatever we can do to bring joy while
21 we're on Zoom, let's do it.

22 Okay, then next, we have Alfred Artis.
23 And on deck, we've got Bill and Matt.

24 So, Alfred, your turn.

25 COMMITTEE MEMBER ARTIS: Hi there. I'm

1 Alfred Artis from -- sorry. I was on mute. Hi
2 there. I'm Alfred Artis from Consumer Reports.
3 There we are. I'm visible now. And I would like
4 to address questions one and three, broadly,
5 mostly regarding consumers who do not live in
6 single-family homes.

7 As folks here know, a consumer with a
8 private garage has access to the most convenient
9 and the lowest cost charging equipment in the
10 form of common household plugs. But for
11 multifamily dwelling units, especially those in
12 disadvantaged communities, it sounds like your
13 report says that those low-income individuals
14 have the furthest drive to access DC fast
15 charging. And, generally, folks in multifamily
16 dwellings do not have access to common household
17 plugs in their garages or wherever they park.

18 It is, already, sometimes four times
19 higher -- four times more expensive -- sorry --
20 to rely on DC fast charging. And if the chargers
21 themselves are not even sited in low-income and
22 low-density areas where there are disadvantaged
23 communities, that presents a further problem.

24 It is also concerning that there are
25 still no planned Level 2 chargers at residential

1 multifamily housing in this plan. And that's
2 something that should be addressed as charging at
3 home is the easiest and most convenient way, as
4 well as the cheapest way, to deliver electricity
5 to an EV.

6 But as a consumer group and not an equity
7 group, we defer to the voices on the ground,
8 especially folks on this call from Huron, the
9 rest of the Coachella Valley, and elsewhere. If
10 their communities want DC fast chargers, please,
11 do your best to provide them with DC fast
12 chargers.

13 That said, the overall consumer answers
14 are pretty clear. Number one, you should
15 immediately demand that EV charging capabilities
16 at multifamily dwellings are in the Building
17 Code. It's cheaper to build correctly than to
18 rebuild. And as the California Building Code is
19 being updated at the moment, we think this is
20 something that CEC should address as quickly as
21 possible.

22 We also believe that money should be
23 spent to reach the most difficult consumers that
24 have -- that will have the most -- that will
25 require the most amount of money to electrify

1 their transportation. If that means building, if
2 that means retrofitting urban multifamily
3 dwellings, then that should be where the money is
4 spent.

5 And then, finally, we believe that on-
6 street Level 2 is going to be part of the
7 solution, especially in urban areas. Underserved
8 communities deserve the convenience of at-home
9 charging.

10 So those are my comments. Thank you very
11 much.

12 COMMISSIONER MONAHAN: Great. Thanks
13 Alfred.

14 And I should emphasize, we are not giving
15 up on multifamily, charging in multifamily
16 dwellings. We are not giving up on that. It is
17 a tough nut to crack but we are definitely
18 planning investments in that space and trying to
19 learn what works and what doesn't work and
20 replicate what works. We know that's a major
21 problem.

22 COMMITTEE MEMBER ARTIS: Thank you.

23 COMMISSIONER MONAHAN: Let's see. We
24 have Bill Magavern next, and Matt and Leslie on
25 deck.

1 COMMITTEE MEMBER MAGAVERN: Thanks Patty.
2 Bill Magavern with Coalition for Clean Air. And
3 I want to thank the CEC for continuing the
4 commitment to investing at least half the money
5 in disadvantaged and low-income communities for
6 the benefit of those communities, a commitment
7 that we first sought in this Committee last year.
8 And I agree with Will Barrett that the goal is
9 that that's a minimum and we want to exceed it.

10 And, really, the best way to deliver
11 equity with this program, I think there are two
12 priorities, one is providing clean mobility for
13 all Californians, and the other is in providing
14 clean air. And as many have said, the priority
15 there, when it comes to air quality, is to reduce
16 toxic diesel emissions from medium- and heavy-
17 duty vehicles.

18 In the Charge Ahead California campaign,
19 we did a lot of budget advocacy and prioritized
20 those two areas, equity and heavy-duty. And the
21 legislature really came through when it came to
22 heavy-duty, didn't do as well when it came to
23 equity. So we're hoping that in the future that
24 we'll deliver more in the vehicle area,
25 particularly for the transportation equity

1 projects.

2 And for heavy-duty, a lot of people have
3 made good points. One that I wanted to add is
4 when it comes to funding hydrogen stations, since
5 there are so few of them, it seems that every
6 hydrogen station should be one that is accessible
7 to buses and trucks, as well as to cars. And we
8 really need to keep alive the possibility of
9 reducing diesel emissions through zero-emission
10 hydrogen fuel cell technology, which is already
11 happening in buses, and some demonstrations are
12 going on in trucks that we hope will scale up and
13 be much more successful. So I think that's the
14 way we can maximize investments in that area.

15 And, finally, just a procedural request.
16 When this item comes to the Commission at your
17 building meeting, I'm wondering whether we can
18 have some time for the Committee Members to make
19 our comments before going to general public
20 comment?

21 Thank you.

22 COMMISSIONER MONAHAN: Thanks Bill. Good
23 food for thought for us.

24 Next, we have Matt. Then we have Leslie
25 and Kevin on deck.

1 So Matt Gregori?

2 COMMITTEE MEMBER GREGORI: Good morning,
3 Commission Monahan, CEC Staff, esteemed Members
4 of the Advisory Committee, and members of the
5 public. My name is Matt Gregori and I serve as a
6 Technology Development Manager on SoCalGas's
7 Research, Development, and Demonstration Group.
8 Clean transportation is a major component of my
9 team's research portfolio.

10 As you may know, SoCalGas has committed
11 to replacing its over-the-road fleet with
12 electric and fuel cell electric vehicles,
13 achieving a 100 percent zero-emissions fleet by
14 2035. We have also successfully partnered with
15 Sierra Northern Railway and Zero Emissions
16 Industries to secure grants from the CEC in the
17 locomotive and harbor craft zero-emission
18 solicitations, which is really exciting.

19 To address question two today, we believe
20 more funds should be directed to the heavy-duty
21 sector where clean transportation investments
22 will have a greater impact on air pollution,
23 particularly in environmental and social justice
24 communities.

25 And to address question three, while much

1 of the work in the research community, where I
2 work, is focused on zero-emissions technology,
3 deployment of net-zero-emission vehicles to
4 displace diesel trucks should continue to be
5 supported by the Clean Transportation Program.

6 In a recent letter, Wayne Nastri,
7 Executive Director of the South Coast Air Quality
8 Management District, stated that,

9 "Actions to make progress towards climate
10 goals and to reduce air pollution can and
11 must go hand in hand."

12 Mr. Nastri's letter further states that,
13 "Heavy-duty trucks fueled with renewable
14 natural gas, or RNG, are commercially
15 available today, can provide substantial GHG
16 emissions reductions, and are at least 90
17 percent cleaner than new diesel trucks on
18 NOx, and 100 percent cleaner on cancer-
19 causing diesel particulate matter."

20 In addition, a peer-reviewed study
21 recently published by the University of
22 California, Riverside in the Journal of
23 Transportation Research Part D further
24 substantiates this point by stating,

25 "Heavy-duty trucks fueled with RNG should be

1 rapidly deployed in the 2020 to 2040 time
2 frame to achieve GHG and NOx emissions
3 reduction targets. And current incentive
4 programs need to be reevaluated to ensure
5 near-zero-emissions technologies are being
6 encouraged and not delayed.”

7 We encourage the CTP to support
8 innovative investment strategies. For example, a
9 fuel card program can help offset the up-front
10 costs of owning and operating a natural gas or
11 renewable natural gas heavy-duty truck. This is
12 similar to how Toyota offers free fuel to
13 customers who purchase a Mirai to help
14 incentivize purchases of new hydrogen fuel cell
15 electric light-duty vehicles. Fuel cards can be
16 provided to customers who purchase a new heavy-
17 duty Class 8 natural gas near-zero-emission truck
18 or hydrogen fuel cell electric truck that is
19 preloaded with a balance at an amount designed to
20 improve economics and encourage adoption.

21 And with that, thank you for the
22 opportunity to comment.

23 COMMISSIONER MONAHAN: Thank you, Matt.

24 All right, next, we have Leslie. And
25 Kevin Hamilton and Bill Elrick are on deck.

1 So, Leslie, you're up.

2 COMMITTEE MEMBER AGUAYO: Thanks Patty.

3 Hi everyone. Good morning.

4 I want to start off by thanking the
5 Energy Commission for this report, and taking
6 some of our feedback into consideration,
7 particularly, some of the comments that were made
8 on the previous Advisory Committee around equity,
9 so I'd like to focus most of my comments around
10 that.

11 While I do appreciate all of the
12 investments that have been doing, and the
13 recognition that 50 percent of the investment
14 allocations have been going to disadvantaged
15 communities, I would like to see a little bit
16 more just aggregated data to further understand
17 where exactly some of these investments have been
18 placed, particularly since we've clarified a
19 little earlier that the investments criteria for
20 disadvantaged communities are specific to where
21 they are physically located in California.

22 I took a look at some of the investments
23 to date, and I might have done some of the
24 calculus wrong, but it looks like out of the
25 around 13,000 charging stations invested to date

1 only 1,339 stations have actually gone in
2 disadvantaged communities for light-duty
3 chargers, which reflects about a ten percent
4 deployment of the overall investment.

5 So I just kind of wanted to clarify --
6 (coughs) excuse me -- a little bit more around
7 the equity data that's being considered for how
8 these investments are being placed throughout
9 census tracts that are in disadvantaged
10 communities? And I think that would be really
11 helpful to clarify how to move along/move forward
12 in future investments in DACs.

13 I also wanted to highlight the earlier
14 comments around moving the criteria from just
15 physically located to also having a clear
16 definition of benefits and what benefits mean to
17 the CEC. There are really great resources,
18 specifically in the Greenhouse Gas Reduction Fund
19 funding guidelines from CARB in 2018 that reflect
20 that direct investments must be meaningful,
21 assured, and direct for disadvantaged
22 communities. So happy to share some of those
23 resources.

24 And, lastly, I'd also like to point out
25 some of the, I believe, you know, lack in more

1 language around resiliency. I did notice that
2 some of the presentations around equity focused
3 on having vehicle-to-grid integration. But it
4 would be really great to also include criteria
5 and metrics that reflect the land use and
6 changing demographics, specifically, you know, as
7 we're starting to see shifts in infrastructure
8 and in demographics as folks leave urban areas
9 and dense populations to more suburban areas, so
10 trying to capture that reflection in some of the
11 SB 1000 reports that we are taking a look at.

12 So with that, I will cede the rest of my
13 time. Thank you.

14 COMMISSIONER MONAHAN: Thanks Leslie.
15 Well, as we refine our definitions, we'll really
16 appreciate the input of Greenlining and other
17 groups to make sure we -- I don't want to say get
18 it right but move towards getting it right. It's
19 a work in progress. But we are committed to be
20 more explicit about what meaningful, assured, and
21 direct really means in the -- in our grants.

22 So let's see, we have Kevin Hamilton
23 next, and Bill and Miles on deck.

24 COMMITTEE MEMBER HAMILTON: Hi. Thank
25 you. Kevin Hamilton, Coachella Valley Asthma

1 Collaborative here in the San Joaquin Valley.

2 I wanted to support and reinforce the
3 comments from my colleagues, Will Barrett and
4 Bill Magavern. We agree strongly with their
5 points.

6 I also want to highlight the health
7 aspect of these changes and the lack of
8 evaluation, that we feel very strongly that
9 adding an evaluation of the economic and physical
10 health changes -- physical and mental health
11 changes that these programs can bring about in
12 these communities and in local residents is
13 tremendous and is not well known because it's not
14 being considered as part of any of these grants
15 and programs that are sent out to the
16 communities. And attempts, quite honestly, to
17 add them at various points that we've made along
18 the way with some of our UC colleague have been
19 widely rebuffed.

20 And so, you know, why we wouldn't want to
21 know that I can't imagine. I think the
22 legislature and others would look at lot more
23 favorable about -- on more funding and building
24 on that, on these projects, if you could see just
25 what a change having an EV in a driveway, for

1 instance, with solar on a roof in an energy
2 efficient home can bring to a family, both
3 economically and reduction of stress which is
4 going to improve the health of the family, and on
5 local businesses that now have access to this new
6 clean transportation source that costs
7 significantly less to maintain and is
8 significantly more reliable. Yet those kinds of
9 assessments don't seem to be part of -- part and
10 parcel of the work here.

11 So we would like to submit that that
12 should be added in and done intentionally, which
13 it is not at this time.

14 I want to reenforce --

15 COMMISSIONER MONAHAN: Well, Kevin --

16 COMMITTEE MEMBER HAMILTON: -- my good --

17 COMMISSIONER MONAHAN: -- I'm --

18 COMMITTEE MEMBER HAMILTON: Yes?

19 COMMISSIONER MONAHAN: -- really sorry to
20 interrupt, really sorry to interrupt --

21 COMMITTEE MEMBER HAMILTON: No, no.

22 COMMISSIONER MONAHAN: -- but we --

23 COMMITTEE MEMBER HAMILTON: As long as
24 they freeze the clock --

25 COMMISSIONER MONAHAN: -- we haven't

1 had --

2 COMMITTEE MEMBER HAMILTON: -- I'm okay.

3 COMMISSIONER MONAHAN: Well, we -- you've
4 already -- did I get it wrong? Because I think
5 you've already spoken. You've already used three
6 minutes? I mean --

7 COMMITTEE MEMBER HAMILTON: I did. Oh,
8 I'm sorry. Did we not get --

9 COMMISSIONER MONAHAN: So we haven't --

10 COMMITTEE MEMBER HAMILTON: -- a second
11 chance?

12 COMMISSIONER MONAHAN: Some Advisory
13 Committee Members haven't.

14 COMMITTEE MEMBER HAMILTON: Apologies.

15 COMMISSIONER MONAHAN: I appreciate that
16 you have a lot of comments to make. And we are
17 going to have a lightning round at the end. But
18 I would just say, let's make sure we can hear
19 from everybody --

20 COMMITTEE MEMBER HAMILTON: Absolutely.

21 COMMISSIONER MONAHAN: -- on the Advisory
22 Committee first.

23 COMMITTEE MEMBER HAMILTON: Yes.

24 COMMISSIONER MONAHAN: All right. Thank
25 you.

1 COMMITTEE MEMBER HAMILTON: I didn't
2 realize I was breaking a rule.

3 COMMISSIONER MONAHAN: All right.

4 COMMITTEE MEMBER HAMILTON: Apologies.
5 Go ahead and take the rest --

6 COMMISSIONER MONAHAN: All right.

7 COMMITTEE MEMBER HAMILTON: -- of my
8 time. Thanks.

9 COMMISSIONER MONAHAN: Okay. Thank you.

10 All right, Bill, you're next. And then
11 we have Miles and Micah on deck.

12 COMMITTEE MEMBER ELRICK: Great. Thank
13 you.

14 Others have commented on all the good
15 hard work by Staff and CEC leadership. But I
16 want to point out and recognize that we really
17 appreciate this Advisory Committee meeting
18 because the diversity of voices in that input is
19 so important in this process, so thanks for that
20 and having that opportunity.

21 Quickly commenting on a few earlier
22 comments, colocation of hydrogen stations, we
23 know where that works and where it doesn't. Just
24 looking at today's fuel market, travel plazas are
25 an awesome opportunity, maybe not so much in the

1 urban markets. Think about where you fuel your
2 light-duty vehicles now. And we have a new fuel
3 cell truck vision that looks at some of that
4 space, you know, not just California, but how we
5 expand this market well outside of this state.

6 And then, finally, to an earlier comment
7 about multi-unit dwellings, by design, hydrogen
8 stations support multi-dwelling units -- multi-
9 unit dwellings. And so that diversity in ZEVs is
10 really important to help everyone.

11 To the questions at hand, the first
12 question about spending funding, you know, our
13 aim is to make this a total transformation and
14 get away from public subsidies overall. So I
15 want to reiterate, focusing on that, beyond just
16 legislative targets but what gets us there, and
17 so seeing the Investment Plan recognize other
18 market milestones along the way, not waiting for
19 formal milestones.

20 The Fuel Cell Partnership through a
21 public-private process has created targets of
22 1,000 light-duty stations, 200 heavy-duty
23 stations. I'd love to see that recognized and
24 work towards more proactively. And we look to
25 work with you, Commissioner, and others on maybe

1 furthering those through a more public process
2 again, really making sure we get those right
3 because we all know this is an ongoing effort.

4 The other is recognize some of the
5 materials that are already out there. There are
6 AB 8 reports twice a year. I don't see those
7 reflected in this document. And I think that
8 would really expand the analysis within the CTP
9 rather easily. And they're already there for the
10 taking.

11 The other document is ARB's Draft Self-
12 Sufficiency [sic] for the Light-Duty Market.
13 It's out there. And what's amazing is it's
14 achieving the ZEV regulation. It's the first
15 identified ZEV transition pathway in the world.
16 I can't say that enough. And that we could reach
17 the light-duty hydrogen and fuel cell vehicle
18 market sustainability by 2030, so seeing that
19 recognized. And I think that's really important
20 to highlight and focus more of the tangible
21 benefits and opportunities, especially per dollar
22 of CTP investment made in the document, and it
23 is.

24 I said earlier, you know, I'd love to
25 work with you more on these. So excited for

1 this. Thanks for all the hard work. And I look
2 forward to more.

3 COMMISSIONER MONAHAN: Excellent. Thank
4 you, Bill.

5 All right, so we have Miles next. And we
6 have Micah and Lori on deck.

7 COMMITTEE MEMBER MULLER: Great. Thanks
8 Patty. Miles Muller with the Natural Resources
9 Defense Council. Really enjoyed the conversation
10 so far and appreciate all the thoughtful comments
11 from the Advisory Committee, as well as all the
12 work that's gone into the Revised Staff Report.

13 Other Committee Members have largely
14 covered much of what I would have said, so I
15 won't belabor those points too much, but I would
16 like to echo some the comments by Bill Magavern,
17 Leslie Aguayo, Sam Houston, and Will Barrett.

18 I would strongly reiterate the
19 appropriateness and importance of continuing to
20 strengthen the program's commitment to expanding
21 the benefits of clean transportation in low-
22 income and disadvantaged communities, and to
23 continuing to explore additional metrics to
24 better define, measure, and track community
25 benefits from the program. As Bill and Leslie

1 referenced, an essential part of realizing that
2 commitment to equity will be ensuring that at
3 least 50 percent of investments go to projects
4 that directly serve or benefit people who live in
5 those disadvantaged and low-income communities.

6 Likewise, we also agree with the value of
7 front-loading those investments in early years to
8 help reduce greenhouse gas emissions and local
9 air pollution as early as possible and provide
10 critical relief to those communities hardest hit
11 by the effects of polluting vehicles.

12 As many panelists have said, while this
13 money will go a long way in helping California --
14 helping keep California on track to meet its
15 climate, equity, and air quality goals, and help
16 establish a strong foundation for future efforts,
17 continued and expanded funding in future years
18 will be critical. So we look forward to
19 continuing to push for increased investments in
20 clean transportation and these important
21 programs, as well as continuing to work with the
22 Commission and Advisory Committee to help
23 California realize a cleaner and more equitable
24 transportation future.

25 So thank you for the opportunity to

1 comment.

2 COMMISSIONER MONAHAN: Excellent. Thank
3 you, Miles.

4 Next, we have Micah and, last, Lori.

5 So, Micah, you're on.

6 COMMITTEE MEMBER MITROSKY: Hi everyone.
7 Good morning, Commissioner, fellow Advisory
8 Committee Members. Great job to the staff this
9 morning on the presentation. Micah Mitrosky.
10 I'm an International Representative with IBEW
11 Ninth District.

12 I'm sorry. I have a little bit of a
13 rowdy cat in the background.

14 I'd like to highlight three points.

15 We support the comments by Casey
16 Gallagher and others pertaining to high-road job
17 creation and advancing pre-apprenticeship, plus
18 apprenticeship partnerships.

19 Additionally, we support prioritizing
20 investments to rapidly reduce air pollution in
21 low-income and disadvantaged communities.

22 And then, finally, we agree with the
23 comments of Bill Magavern, Miles, Will Barrett,
24 and others that the 50 percent investment in
25 disadvantaged communities should be a floor and

1 not a ceiling.

2 Thank you.

3 COMMISSIONER MONAHAN: Thanks Micah.

4 All right, we have Lori Pepper, adding
5 cleanup.

6 Lori, you're on.

7 COMMITTEE MEMBER PEPPER: Good morning.

8 Thank you. Thanks Patty. And thanks to the
9 entire CEC team for all your hard work. And to
10 the Advisory Committee Members, I really have
11 enjoyed the discussion this morning and hearing
12 everybody's thoughts.

13 I did want to -- I didn't want to repeat
14 too much, so just had a couple of things I wanted
15 to highlight on behalf of the Transportation
16 Agency.

17 First, I do want to thank CEC, CARB, and
18 GO-Biz for including us in coordination meetings
19 on funding. You know, we have big goals to
20 achieve, and we each have different pieces of the
21 puzzle. And so making sure that we're using our
22 different pieces to their highest value is
23 important. And these coordination meetings are
24 critical to that.

25 As far as CalSTA goes, we do have the

1 TIRCP, the Transit Intercity Rail Capital
2 Program. And so if you qualify, or if you
3 partner with an entity that qualifies, really
4 want to make sure everybody knows that that's
5 another program where we can kind of expand our
6 reach in order to flip the transit agencies and
7 our intercity rail agencies to zero-emission
8 vehicles. So please take a look at that, as
9 well, as another option.

10 I also wanted to -- oh, here we go -- I
11 also wanted to comment on the idea of having low-
12 income benefits. There was some discussion
13 earlier about having a card. And I wanted to
14 make sure people know that we have a program
15 called Cal-ITP, the Integrated Travel Project.
16 And one of the potential benefits that we're
17 trying to do is to lower the barriers to access
18 actual benefits. And we're trying to really
19 reform the way we have payments and planning and
20 being able to reach people in a different way.

21 And this is something where we might be
22 able to integrate a program, like was discussed,
23 into what we're doing. So if that's something
24 that people want to discuss, I would really hope
25 that we could be included in that conversation.

1 Thank you very much.

2 COMMISSIONER MONAHAN: Thanks Lori. I
3 mean, I'm really glad you and Tyson and Sydney,
4 you know, are emphasizing the relationship that
5 we have. I feel like we've never had -- I mean,
6 granted, I've only been in this job two-and-a-
7 half years, so my longevity is somewhat short,
8 but I feel like the level of coordination is
9 extraordinary right now between agencies. And
10 we're all committed to meeting the state goals
11 and doing it in a way that's going to be
12 effective and attentive to equity. So just thank
13 you for being here, and thanks to all the other
14 fellow state agencies, and for your
15 collaboration.

16 So I don't see any more hands. I hope
17 every Advisory Committee Member has had a chance
18 to speak, but I'll give folks just a second if
19 you -- I don't have a list going. But if you are
20 on the Advisory Committee and you have not spoken
21 and you want to, just raise your hand right now.
22 Okay, I don't -- oh, there's one. Oh, Larry's
23 raised his hand again. Because we do have the --
24 now we have the lightning round.

25 So, basically, I wanted to give everybody

1 a chance because that was a lot to digest. I'm
2 digesting a lot. And if there's anything that
3 anybody else said that made you think, ahh,
4 there's something else I want to add to my
5 thoughts, or I you just want to summarize pithily
6 within a minute your high-level thoughts
7 (indiscernible) opportunity. So we're going to
8 do a quick lightning round, so anybody who wants
9 to speak again gets one minute to do that.

10 And, Larry, you are first up.

11 MR. BRECHT: Actually, I think, Larry,
12 you haven't spoken yet, so I would -- if that's
13 correct?

14 COMMISSIONER MONAHAN: Oh, I'm sorry.
15 Larry hasn't spoken yet. Oh, and Russell hasn't
16 spoken. So we have two that haven't spoken; is
17 that right?

18 COMMITTEE MEMBER ENGELBRECHT: I'll
19 let --

20 MR. BRECHT: That's correct.

21 COMMISSIONER MONAHAN: Okay.

22 COMMITTEE MEMBER ENGELBRECHT: -- Russell
23 go first while I try to bring up my document
24 again.

25 COMMISSIONER MONAHAN: Okay.

1 COMMITTEE MEMBER TEALL: Russell Teall,
2 private citizen.

3 The writing of the solicitation is an art
4 form. And the CEC Staff does it well. And we
5 need to prioritize bidirectional chargers,
6 chargers supported by renewables, and workforce
7 development. Instead of dedicating a line item
8 budget, it could be incorporated in everything
9 the CEC does.

10 And I've learned to use priority
11 communities instead of disadvantaged communities
12 because they're not disadvantaged. They're
13 culturally equivalent in many respects.

14 So that's my comments.

15 COMMISSIONER MONAHAN: All right. Thank
16 you, Russell.

17 Larry, have you had a chance to find your
18 notes?

19 COMMITTEE MEMBER ENGELBRECHT: Yes. I
20 have it here. Thank you very much.

21 My comment is, and I'll submit a written
22 one to the docket shortly after this, there is no
23 umbrella oversight of transportation education
24 from what I am seeing in California. Using
25 automotive as an example, because that's directly

1 related to ZEV training, California Department of
2 Ed has their standards. So does the Community
3 College Chancellor's Office, as well as UC for
4 their A through G approved programs for high
5 schools. Add the Industry National Accreditation
6 Standards and the dog-piling unnecessary
7 duplication and redundancy of standards is simply
8 staggering. And it's no wonder that
9 instructional staff are so resistant to changing
10 our curriculum.

11 Add to that the ineffective articulation
12 agreements between high school and community
13 college transportation programs, the
14 strengthening of dual and concurrent enrollment
15 agreements between high schools and community
16 colleges is of critical importance to develop and
17 strengthen the pathways for training for ZEV
18 programs.

19 The point I'm trying to make is that
20 there needs to be some sort of coordination or
21 oversight, perhaps at the superintendent and
22 public instruction level, or somewhere where we
23 can eliminate this redundancy and come up with a
24 set of standards that everybody can use and we
25 can strengthen our pathways of, because the

1 pathways between high schools programs, and I'm
2 aware that there is ZEV programs that have been
3 developed, that needs to be continued in college
4 to pick up where they left off, to continue going
5 to advanced training and accreditation, in
6 addition to the high school students that missed
7 out on the ZEV training and then wanted to start
8 that in community college.

9 That is all. Thank you.

10 COMMISSIONER MONAHAN: Thanks Larry.

11 So any other Advisory Committee Members
12 who have not spoken? All right, I don't see any
13 more hands.

14 So let's move to the lightning round. So
15 we have -- at noon, we do want to stop for public
16 comment, but I think you have enough time for a
17 minute for anybody who wants to speak, again,
18 from the Advisory Committee. So just raise your
19 hand if you want to use the minute lightning
20 round to just either summarize your thoughts or
21 modify your thoughts based on what you've heard
22 from other Advisory Committee Members. And you
23 don't have to use the lightning -- (clears
24 throat) excuse me -- you don't have to use the
25 lightning round. But we just wanted to make it

1 available in case folks wanted to say something
2 additional.

3 I see Robert with his hand raised.

4 COMMITTEE MEMBER MEYER: All right. Do I
5 get a minute? All right.

6 COMMISSIONER MONAHAN: You do.

7 COMMITTEE MEMBER MEYER: It's started
8 too.

9 I wanted to reiterate the call that we
10 have regarding efforts to reach out to small
11 business, economically disadvantaged communities,
12 and the organizations that serve them. We do
13 want to, similar to this effort of getting input
14 and a perspective regarding equity, we want to
15 improve that in our programs. And we have
16 several funding sources that specifically address
17 that.

18 The other thing I would mention is we
19 have specific grant funding dealing with small
20 businesses that we are interested in applicants
21 for. So if you'd like more information, please
22 don't hesitate to reach out to me.

23 But on the aside of it, thank you so much
24 for the opportunity to provide input on this
25 plan. It's such a massive effort. And given all

1 of the funding efforts that seem to have flooded
2 all of our programs, I really appreciate the
3 effort to try and efficiently align the awarding
4 of funds, the providing of program support, and
5 look forward to the continued collaboration.

6 Thank you.

7 COMMISSIONER MONAHAN: Great. Thanks
8 Robert.

9 I see Tracy with her hand raised.

10 COMMITTEE MEMBER STANHOFF: Yes. Thank
11 you.

12 Can Robert put his email in the chat so
13 we can email him or send him information on that
14 small business grant info step please? Thank
15 you.

16 COMMISSIONER MONAHAN: I got to say, I'm
17 very entertained with how different meetings are
18 in Zoom, so much chatting and hand raising
19 happening.

20 All right, does anybody else from the
21 Advisory Committee want to make a final comment?

22 Casey?

23 COMMITTEE MEMBER GALLAGHER: Yeah. I
24 just want to thank everyone for the opportunity
25 to make comments on (indiscernible).

1 COMMISSIONER MONAHAN: Oh, Casey, you
2 went away for a second there. So you might want
3 to just try turning off your video so that your
4 bandwidth is reserved for audio.

5 COMMITTEE MEMBER GALLAGHER: All right.
6 Let's give this a go. Fun times during the
7 pandemic and Zoom. My cat's sleeping or I would
8 bring her out to show everyone.

9 So I just want to thank everyone for the
10 comments being made today and the opportunity to
11 do -- and add additional comments to the plan.

12 Ultimately, I just want to point out that
13 as we kind of explore equity, and also different
14 forms of advancement for low-income and
15 disadvantaged communities, and expand this kind
16 of investment for all Californians, the Labor
17 Federation is happy to provide any kind of
18 resources or discussion or follow up on different
19 plans that have been created and other ways that
20 these things have been implemented across the
21 state.

22 Thank you.

23 COMMISSIONER MONAHAN: Thank you, Casey.

24 I'm not seeing any other hand raised. So
25 I'm going to just say a few concluding remarks.

1 And then I'm going to turn it over to the public
2 comment period.

3 Well, first, I want to thank all the
4 Advisory Committee Members for taking so much
5 time out of your day to help advise us on these
6 important investments. I want you to know that
7 we are taking your feedback very seriously. And
8 we're going to be doing more outreach to get
9 additional feedback. I'm going to be actually
10 meeting with the Disadvantaged Communities
11 Advisory Group on Friday, just to give them an
12 overview, and we'll have a deeper dive with them.
13 We're doing a roundtable with some environmental
14 justice groups. We'll be getting some
15 information back from them.

16 I encourage everybody to submit written
17 comments so that we -- that elaborate on the
18 comments that you've made verbally today, so
19 we'll have must sort of more of a platform to
20 make a good decision going forward with the final
21 Investment Plan. And this is not just lip
22 service. Like we are really listening carefully
23 to what you're saying and thinking about how best
24 we can serve California, meet the state goals,
25 promote equity, and do a better job articulating

1 what it means to have a meaningful, assured, and
2 direct benefit to communities.

3 So with that, just thank you again.
4 You're welcome to stay and listen to the public
5 comment. And I'm going to turn it over, I think,
6 is it Michael or Patrick that's going to be
7 leading this next?

8 MR. COMITER: Yes. I'll announce the
9 public comment.

10 COMMISSIONER MONAHAN: Oh, great. Okay.
11 Thanks Michael.

12 MR. COMITER: Sure. All right. So --

13 MR. BRECHT: I just would --

14 MR. COMITER: Oh, go ahead.

15 MR. BRECHT: -- I just would reiterate,
16 the comments are due by September 30th, that we,
17 like Patty said, strongly encourage those
18 comments. And to be as specific as possible in
19 those comments would be really appreciated. So
20 thank you for being here.

21 And I'll turn it over to Michael for
22 public comments. Thank you.

23 MR. COMITER: All right. So we're going
24 to start with raised hands. And then,
25 afterwards, we're going to move on to the Q&A.

1 So to start off with, we're going to go
2 to Mark Roest.

3 Please go ahead and state your full name,
4 then spell it, and then state your affiliation.

5 MR. ROEST: My name is Mark Roest. I'm
6 in San Mateo, California. I am with Sustainable
7 Energy, Inc. And we are a battery and solar
8 technologies startup company. And, first, I have
9 a question, then I have a comment.

10 The question is: Are LCFS credits readily
11 available for BEV charging infrastructure for
12 both roads and agricultural, for ports and rail
13 hubs, for multifamily residential, for non-
14 utility provision, meaning onsite solar and
15 storage, community solar gardens, that sort of
16 thing?

17 The comment is, by Q4 2022, we hope to
18 have high-value, low-cost, non-lithium batteries
19 for both stationary storage and traction use. By
20 mid to late 2023, we plan to offer 48 percent
21 efficient solar thin film that can be used for
22 rooftop and canopy capture and on vehicles as
23 well. So I'm particularly interested in having
24 that go into the impacted communities.

25 And, also, this will create businesses

1 who are interested in getting people hired and
2 starting up cooperatives to convert vehicles'
3 existing fleet to full battery-electric, and to
4 install and put up solar storage -- solar and
5 storage.

6 Thank you.

7 MR. COMITER: All right. And now we'll
8 be moving on to Teresa. But just a reminder
9 going forward, we will only have one minute per
10 speaker.

11 So go ahead, Teresa Bui, and state your
12 name and affiliation.

13 MS. BUI: Thank you so much. Good
14 morning and thank you for hosting this. My name
15 is Teresa Bui, spelled B-U-I. I'm the Safe
16 Climate Policy Director with Pacific Environment.
17 We're an environmental NGO with a consultative
18 status at the International Maritime
19 Organization.

20 Ships are one of the work polluters in
21 California. And in the area surrounding San
22 Pedro Bay ports, harbor craft constitutes one of
23 the top three sources of cancer risks because of
24 the diesel particulate matter.

25 So what we're asking you is we're urging

1 the CEC to allocate funding for green hydrogen
2 infrastructure and electrification to modernize
3 operation and drastically reduce shipping
4 emission for front-line and fence-line port
5 communities. Green hydrogen infrastructure and
6 shore power is a critical infrastructure energy
7 pathway for oceangoing vessels and small ships.

8 And I just want to remind you that marine
9 vessels are considered off-road mobile sources
10 and part of the Governor's Climate Executive
11 Order N-79-20 to achieve zero-emission by 2035.

12 Thank you so much.

13 MR. COMITER: Thank you.

14 Now, we'll be moving on to Ryan L.

15 Go ahead.

16 MR. LAU: Hi. My name is Ryan Lau,
17 spelled L-A-U, with AC Transit, a transit agency
18 in the San Francisco East Bay.

19 So I just wanted to echo some of the
20 comments made around the benefits of
21 transitioning the heavy-duty sector to zero-
22 emission, and from my perspective, in particular,
23 transit buses. Because if we are concerned about
24 the public health of vulnerable and disadvantaged
25 communities, we are traveling through those

1 communities all day every day.

2 You know, our ridership consists of 65
3 percent low-income households, 75 percent people
4 of color, 29 percent limited English
5 proficiency -- excuse me, not enough coffee this
6 morning -- and 43 percent have no access to a
7 car. And so they ride our buses because we
8 travel through their communities all day.

9 And so the best way to impact the air
10 quality of these communities is to help us
11 transition to zero-emission.

12 Thank you.

13 MR. COMITER: Thank you.

14 Next, we'll move to Roger [sic].

15 Go ahead and state your name and
16 affiliation.

17 MR. HURDLE-BRADFORD: My name is Rodric,
18 R-O-D-R-I-C, Hurdle, H-U-R-D-L-E, hyphen -
19 Bradford. I am with News Data, and California
20 Energy Markets Media Outlets.

21 My question is -- I know Ryan just spoke
22 about public transportation from a demographic
23 standpoint. And I may have missed this referred
24 to on the call as I had to step out, but what is
25 the plan or direction, or does this plan address

1 the dramatic decrease in demand of private car
2 usage that we see from this younger generation?
3 We are looking at a generation that is going to
4 go more towards a European-style thinking when it
5 comes to transportation and not our traditional,
6 especially in California, our everyone-needs-a-
7 car mentality.

8 So is there are any plan or is there any
9 angle developed, or a resource you could point me
10 to, that talks about that demand, as in that was
11 a -- the main reason I got on this call is to see
12 and use that as a story angle?

13 Thank you. And I'll be muted for your
14 response.

15 MR. COMITER: Thank you. I do want to
16 remind you, we are just taking statements
17 currently. But you're able to follow up with
18 Patrick Brecht via email afterwards.

19 So next, we'll move to Mikhael.

20 Please state your name and affiliation.

21 MR. SKVARLA: Thank you. Mikhael
22 Skvarla. I'm with The Gualco Group, here on
23 behalf of the California Hydrogen Coalition. I
24 want to express our appreciation for the meeting
25 today and all the comments from the Advisory

1 Committee panel members, and Lead Commissioner.

2 CHC and our members stand ready to build
3 the light-, medium- and heavy-duty hydrogen
4 refueling infrastructure necessary to achieve
5 California's climate and zero-emission goals.
6 The challenge facing us today is that we need
7 to -- both the industry and the state, and
8 specifically the CEC and the Air Resources Board,
9 is that we're going to build this infrastructure
10 faster than ever before. The aggressive goals of
11 the Governor's executive order, as well as the
12 rules being promulgated by the Air Resources
13 Board with the Advanced Clean Fleets, require us
14 to have in place by 2024 substantially more
15 infrastructure than what we do today.

16 And to that end, we look forward to
17 partnering with everyone here and providing some
18 specific comments to this proceeding in answering
19 some of the questions above so that we can help
20 inform our preferred pathway for moving forward.

21 Thank you.

22 MR. COMITER: All right. Thank you,
23 Mikhael.

24 All right, next, we'll move to Glenn.

25 Go ahead and state your name and

1 affiliation.

2 MR. CHOE: Hi. Glenn Choe from Toyota
3 Motors North America. Last name is spelled
4 C-H-O-E. Greatly appreciate the time to
5 communicate today. We just want to add some
6 insights from our experience with light-duty
7 zero-emission vehicle market.

8 With regards to CEC's metrics for
9 funding, whether it's based upon number of
10 stations or chargers available, as well as
11 capacity, we'd like to recommend adding another
12 metric which is based on customer experience.
13 And that can be related to station availability
14 or accessibility, uptime, or that of reliability.

15 We're learning from our experience that
16 consumer confidence in zero-emission vehicles
17 also relies upon their confidence in the
18 infrastructure. So far it has been -- it has not
19 been the best experience. And we're concerned as
20 we move forward that such metrics may be needed
21 to require additional funding.

22 Overkill of stations or chargers is
23 greatly appreciated. Redundancy is never enough.
24 So we'd like to encourage the CEC to look into
25 adding additional metrics to your analysis.

1 Thank you.

2 MR. COMITER: All right. Thank you,
3 Glenn.

4 Next, we'll move on to Dan Howells.

5 Go ahead and state your name and
6 affiliation. Please un-mute, Dan. You're able
7 to give your statement.

8 MR. HOWELLS: Sorry about that. Hi. My
9 name is Dan Howells. I'm with the Electric
10 Vehicle Charging Association. My last name is
11 spelled H-O-W-E-L-L-S. EVCA is a nonprofit
12 organization that brings together thought leaders
13 throughout the value chain of the electric
14 vehicle charging industry to advance the goal of
15 clean -- of a clean transportation system. We'll
16 be submitting comments, so I'm just going to do a
17 couple of highlights, and some of this will be a
18 tad redundant.

19 We would like to prioritize
20 infrastructure deployment. We're heard -- it's
21 been good to hear that you're releasing the funds
22 quickly. But we would like to see that done by
23 expanding existing rebate programs. We would
24 like to see all targeted infrastructure
25 deployment at urban mobility hubs. And we would

1 also like to support the -- emphasize the
2 infrastructure deployment in low-income and
3 disadvantaged communities.

4 Thanks.

5 MR. COMITER: Thank you, Dan.

6 Next, we'll move on to William.

7 Please state your name and affiliation.

8 MR. ZOBEL: Yes. Good morning. My name
9 is William Zobel, Z-O-B-E-L. I'm the Executive
10 Director of the California Hydrogen Business
11 Council. We represent over 125 companies in the
12 commercialization of hydrogen and fuel cell
13 technology here in the state of California. We
14 appreciate the opportunity to comment today and
15 agree that the focus of this task force should
16 certainly be on overburdened communities that are
17 impacted by heavy levels of air pollution.

18 We would point out that fuel cell
19 electric vehicles, light-, medium- and heavy-
20 duty, present a one-for-one replacement of
21 petroleum vehicles and can be deployed today, and
22 on the heavy-duty side be deployed in the very
23 near term in communities that are overburdened by
24 air pollution.

25 I would also point out that we echo the

1 comments made by Bill Elrick, who is one of the
2 Advisory Committee Members, in particular those
3 that are focused on cost. We need to take a look
4 at what the state is spending on the various
5 zero-emission vehicle programs and see what you
6 get for the dollars that are spent. Bill pointed
7 out the ARB reports that show a path to self-
8 sustainability. We should focus on that and the
9 need to continue to focus on that market to
10 achieve that.

11 Thank you.

12 MR. COMITER: All right. Appreciate the
13 public comment.

14 And it looks like we have two more raised
15 hands. Let's move on to -- oh, another one
16 popped up -- let's move on to Claire Warshaw.

17 Please state your name and affiliation.

18 MS. WARSHAW: Hi. My name is Claire
19 Warshaw and I'm a Rosemont suburb, a Sacramento
20 citizen. I live in an area that's effected by
21 construction particulate matter, that would be
22 from gravel construction companies, like granite,
23 asphalt companies, and diesel trucks in this
24 area. I am very low income. I learned
25 California's Food Stamp Program for the first

1 time over COVID. And I have different ideas than
2 you've presented, though I'm very thankful for
3 what you have presented. And I just want to echo
4 a few things.

5 Rey's comment about travel influencing
6 mental health, that's very true about low income.

7 I want to echo Russell's comments about
8 endorsing bidirectional meter panels for
9 emergencies.

10 Also, low-income people like to travel
11 very cheaply, by plane, and I wrote a comment
12 into the chat regarding that. I might write into
13 the docket, although my eyeballs get strained. I
14 imagine yours do too.

15 So thank you very much.

16 MR. COMITER: All right. Appreciate the
17 comment. Thank you.

18 All right, next, we'll move on to Adam.

19 Go ahead and state your name and
20 affiliation.

21 MR. MOHABBAT: Hi everyone. My name is
22 Adam Mohabbat, spelled M-O-H-A-B-B-A-T. I'm a
23 Policy Manager with EVgo. We are the nations
24 largest network of public fast charging stations,
25 based right here in California. Thank you for

1 the opportunity to comment today. And I want to
2 thank the Commission staff for the thoughtful
3 work on the Investment Plan and the historic
4 investments being made into ZEVs and ZEV
5 infrastructure.

6 Two comments here, and we'll follow up
7 with written comments as well.

8 First, to the extent where the Investment
9 Plan can provide clarity on structure and cadence
10 of upcoming funding programs, that would be
11 extremely helpful in positioning the market and
12 partners to meet state deployment goals.

13 Second, we're supportive of the
14 Commission's work around SB 1000 on equitable
15 distribution of charging infrastructure and are
16 supportive of its use to guide the investments
17 made in DCTB (phonetic).

18 Thanks.

19 MR. COMITER: All right. Thank you,
20 Adam.

21 All right, it looks like we have two
22 additional raised hands so far, so let's move on
23 to Brett.

24 State your name and affiliation.

25 MR. ZEUNER: Hi. Thank you. My name is

1 Brett Zeuner and I'm with the Foundation for
2 California Community Colleges. And I just wanted
3 to emphasize the importance of workforce
4 development. And I'm glad to hear that that came
5 up so much.

6 I see the \$5 million investment there
7 juxtaposed against, you know, the triple-digit
8 numbers for other things. And, yeah, just
9 highlighting the importance of investing in
10 community colleges and the need for the just
11 transition to not just immediately benefit those
12 who have been left out of growth and prosperity
13 but to build those deep and resilient capacities
14 that ensure the long-term economic and
15 environmental health for everyone in those
16 communities, so thinking about the long-term
17 investment there.

18

19 And then one other bit was the just
20 importance of ensuring that these investments
21 don't lead to passed-on cost to consumers and
22 communities while private businesses kind of
23 profit from them. I've seen that happen in the
24 light-duty incentives. So just making sure that
25 this isn't just subsidizing the private sector

1 but that we measure a way for the public to
2 ensure that they're benefitting, as well, and
3 costs don't get passed down.

4 Thank you.

5 MR. COMITER: All right. Thank you for
6 the comment, Brett.

7 Lastly, we'll move on to Levi.

8 Go ahead and state your name and
9 affiliation.

10 MR. TILLEMANN: Hi. My name is Levi
11 Tillemann. I'm with Ample, which is a battery
12 swap company that operates out of the San
13 Francisco Bay Area.

14 I'm also an electric vehicle owner. And
15 I think it's really important for electric
16 vehicle owners that don't have access to
17 overnight charging to be part of this process.
18 Current public charging, whether it be Level 2 or
19 DC fast charge, is both very inconvenient and
20 very expensive for electric vehicle owners.

21 China has developed a solution for this.
22 They're rapidly deploying battery swap
23 infrastructure. By 2025, there will be capacity
24 for 80 million battery swaps a week in China.

25 The federal government is also

1 integrating battery swap into the reconciliation
2 language in its current infrastructure push. And
3 we think it's really important that California do
4 that as well. We haven't seen any evidence of
5 that thus far in CEC or CARB policy. We believe
6 that battery swap solves a lot of the challenges
7 related to both equity and convenience for
8 electric vehicles and would appreciate that you
9 guys seek to integrate it in the future.

10 Thank you.

11 MR. COMITER: All right. Thank you,
12 Levi.

13 And it looks like we had just another
14 raised hand pop up. If we have time for that,
15 we'll move on to Wayne.

16 Go ahead. State your name and
17 affiliation.

18 MR. LEIGHTY: Hello. This is Wayne
19 Leighty. (Indiscernible.)

20 MR. COMITER: Sorry. Could you increase
21 your volume? It's difficult to hear.

22 MR. LEIGHTY: Sorry. Is that better?

23 MR. COMITER: Perfect.

24 MR. LEIGHTY: Wayne Leighty. Last name
25 is L-E-I-G-H-T-Y, commercial head for Shell

1 Hydrogen.

2 I agree with the comments already made by
3 Bill Elrick and Will Zobel and others. But just
4 to reemphasize, charging and hydrogen --

5 MR. SMITH: Wayne, I apologize. It
6 sounds like you've faded out again. We could
7 hear you but it's almost whisper quiet.

8 MR. LEIGHTY: Okay. Any better?

9 MR. SMITH: Much better. Thank you.

10 MR. LEIGHTY: Just briefly, charging and
11 hydrogen fueling infrastructure are so key and
12 are becoming limiting to the adoption of zero-
13 emission vehicles. So thank you for
14 (indiscernible) this.

15 Market confidence is important, as well,
16 for the low-income residents and the customers.
17 And the wise integration and use of our
18 (indiscernible) are essential.

19 Thank you.

20 MR. SMITH: Thank you, Wayne. Since we
21 weren't able to hear it with crystal clarity, I
22 wonder if you might be able to follow up with a
23 docket submittal, as well, if you're so inclined?

24 MR. LEIGHTY: I will. Thank you.

25 MR. SMITH: Thank you.

1 MR. COMITER: All right. That seems to
2 do it for all of the stated public comments.

3 So we'll go ahead and move on to the
4 written Q&A, but it seems like we covered some of
5 these topics already and I don't want to go over
6 the time, so I'll just touch on the first

7 question posted by Adrian Martinez, and that was,

8 "On the AQMD's Clean Fuel Program at the
9 Advisory Committee meeting yesterday, EPRI
10 gave an interesting presentation mentioning
11 particular transportation electrification
12 projects that originally estimate very large
13 energy needs for larger scale bus projects,
14 but with optimized charging solutions,
15 dramatically reduced this need." And it's
16 saying, "Will there be a capacity -- will
17 there be capacity grants/resources for
18 agencies, like the transit agencies, school
19 districts, et cetera, to explore this so they
20 can get the right size for the projects and
21 stretch their funds?"

22 And with that, I don't know that we have
23 the time to touch on anything else.

24 Any other comments from the people on the
25 panel?

1 COMMISSIONER MONAHAN: I think, Michael,
2 we're just going to be closing it up. So if
3 there's no more public comments, maybe I'll just
4 make a few concluding remarks, and we can --

5 MR. COMITER: Perfect. Yeah.

6 COMMISSIONER MONAHAN: Okay. Any
7 other -- any final -- folks want to make a
8 comment?

9 MR. BRECHT: I'll just add, please, the
10 email -- my email is up on this slide. Oh, if
11 you could put it back, perhaps? If you have any
12 questions, please follow up with me and I'll do
13 my best to answer those as quickly as possible,
14 so thank you.

15 COMMISSIONER MONAHAN: Great. Well,
16 thanks to all the members of the public and
17 stakeholder community that stuck it out through
18 the entire AC meeting and made your comments at
19 the end. As Patrick said, we encourage you to
20 make written comments, and we are going to be
21 taking written comments very seriously. You
22 don't have to be an Advisory Committee Member to
23 influence our decision making process. In fact,
24 we want as much stakeholder comments and feedback
25 as possible. So we're very excited, as you can

1 tell, to move forward on this and to make smart
2 decisions based on good public input. So please
3 do provide your written comments.

4 And thanks again for participating. All
5 right. Have a good day everybody.

6 (Off the record at 2:02 p.m.)

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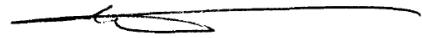
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Barbara Little
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