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CALIFORNIA ENERGY COMMISSION

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TRANSPORTATION FUELS ASSESSMENT AND
TRANSPORTATION FUELS TRANSITION PLAN WORKSHOP

HYBRID VIA IN-PERSON AND ZOOM

FRIDAY, MAY 3, 2024

1:30 P.M.

Reported by:

Martha Nelson

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P R O C E E D I N G S

1:30 p.m.

FRIDAY, MAY 3, 2024

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4 MS. GUTIERREZ: Good afternoon and welcome to our
5 workshop to review the Transportation Fuels Assessment and
6 also to kick off the proceeding for the Transportation
7 Fuels Transition Plan. We're here today in the Rosenfeld
8 Room at the Warren-Alquist Building and want to go over a
9 few housekeeping items.

10 My name is Aleecia Gutierrez. I'm the Director
11 for the Energy Assessments Division, where a lot of the SB
12 X1-2 work is happening at the Energy Commission. We're
13 joined here today. This is a joint workshop with our
14 colleagues from the California Air Resources Board.

15 So for those that are here physically, if there
16 is an emergency, we will evacuate the building and please
17 follow the staff to Roosevelt Park, which is across the
18 street diagonal to the building. And then we also have
19 restrooms outside the doors to your left and at the corner
20 of the atrium. And I think that is it.

21 We will be taking a brief break between the
22 larger portions of the workshop and we'll let you know when
23 that is and when to return.

24 So once again, welcome and thank you for joining
25 us this afternoon. We're going to be going over the

1 Transportation Fuels Assessment which was developed under a
2 Senate Bill X1-2. And we're also focusing on the methods
3 and their feasibility to ensure the reliable supply of
4 affordable and safe fuels, as well as the CARB Transition
5 Plan to plan and monitor progress towards transition away
6 from petroleum fuels.

7 So we will start this workshop with comments from
8 our dais.

9 Vice Chair Gunda, I will turn to you.

10 VICE CHAIR GUNDA: Thank you, Aleecia, for
11 getting us started today.

12 Welcome everybody in the room, but also everyone
13 that's joining online for this workshop. We're doing this
14 joint workshop today, as Aleecia noted, with the California
15 Air Resources Board, but we also have a presentation both
16 from EPA, CalEPA, and CNRA today. I'm really glad to have
17 you join us.

18 Just at the top, I want to just announce that I
19 have to jump out of the workshop for about an hour and Drew
20 will take over the proceedings here, but I'll join back.
21 Quentin, I just want to say thank you to you, Aleecia, EAD,
22 you know, CCO, but also our colleagues at CARB, the DPMO,
23 everybody who has weighed in on developing this joint work
24 that we were able to put out. I'm really impressed with
25 the amount of work that the Energy Commission, in

1 consultation and collaboration with the other agencies, was
2 able to put out on this, on the Assessment. It's an
3 important element of the overall SB X1-2 in really shedding
4 the light on, you know, what are some of the core issues in
5 the market, you know, how is the market organized, getting
6 a high level snapshot of the landscape, and thinking
7 through the various pathways and measures we could take in
8 ultimately protecting the consumers through this transition
9 that we're in.

10 It has been a very collaborative process, you
11 know, thanks to the industry, labor, environmental justice
12 groups, and other stakeholders who have continually
13 attended these meetings, but also been a part of providing
14 input as we develop the Assessment. So I just want to be
15 reminded of, you know, the collective work we do as
16 Californians and the stakeholders in this particular
17 important element. And ultimately it's about making sure
18 Californians are protected.

19 This, you know, Fuels Assessment will directly
20 flow into the next major work in terms of the planning and
21 policy ideas, which is the Transition Plan, and we look to
22 CARB's leadership on that and we'll be closely working with
23 CARB in developing that moving forward.

24 So I'm looking forward to daylighting the work in
25 the Assessment, getting some feedback and get the

1 collective thoughts on the table.

2 With that, I would like to invite Chair Randolph
3 for any opening comments you may have.

4 CHAIR RANDOLPH: Thank you so much, Vice Chair
5 Gunda. And I want to thank the leadership and staff at the
6 Energy Commission for all the ongoing collaboration with
7 CARB as we are tackling these two critical reports.

8 When we did the 2022 Scoping Plan update, the
9 Board directed CARB staff to include language about how to
10 equitably transition away from fossil fuels and phase down
11 the supply side as that transition took hold. And the two
12 reports called for in the legislative special session
13 contain many of the topics that we identified in that
14 update as critical areas of review to evaluate and
15 understand as we go through this process of moving away
16 from fossil fuels.

17 The Scoping Plan showed a path that can reduce
18 petroleum dependence by over 90 percent by 2045. The
19 transportation sector, of course, as we all know, is the
20 largest source of greenhouse gases and air pollution in the
21 state, emphasizing the importance of moving towards zero-
22 emission technologies.

23 Through our rules like Advanced Clean Trucks,
24 Advanced Clean Cars, Advanced Clean Fleets, California is
25 developing and deploying zero-emission vehicles across all

1 fleets and off-road applications.

2 And to aid in the transition away from fossil
3 fuels, we need to continue ZEV deployment and critical
4 build out of infrastructure. The low-carbon fuel standard
5 is an important piece of that and it supports the
6 transition by incentivizing lower-carbon fuels for existing
7 combustion vehicles and for ZEVs. And so we need to
8 prioritize the strategies that reduce demand for fossil
9 fuels so that we can achieve both our climate goals and the
10 air quality goals.

11 But combustion vehicles, you know, we all know,
12 have long lifetimes. And even as we're increasing the
13 percentage of ZEVs, there are many, many thousands of new
14 vehicles just entering the roads now and in the coming
15 years that will be combustion. So we know that this liquid
16 fuels demand is going to persist for a few decades. And so
17 we understand that we need to plan for a transition away
18 from fossil fuels that takes into account the timeframes,
19 adoption, and input from a broad range of stakeholders.

20 And we're doing this work, not just for air
21 quality and for climate, but also for consumers.
22 California consumers can be in a place where they are no
23 longer beholden to prices driven by a small number of fuel
24 producers. CEC's data has shown that the cost of crude oil
25 and costs associated with refining, distribution, and

1 marketing were the main drivers of the rising cost of
2 gasoline prices, and together have contributed 82 percent
3 to the increase since 2019 when compared to retail prices
4 in 2023. And we know that gas prices will continue to
5 increase since extraction of crude from older and depleting
6 wells will require more energy.

7 So we need to be addressing not just the demand,
8 but the supply of fossil fuels and understand how we're
9 going to be making that transition to less dependence on
10 this fuel that causes climate change.

11 And so the workshop today on the Fuels Assessment
12 and the subsequent development of the Transition Plan is
13 California's next step as we think about this transition.
14 And this discussion this afternoon, I think, will be a
15 really helpful level set and help us embark on the deep
16 discussion about that Transition Plan.

17 So thank you all for all the work leading up to
18 this day and looking forward to the workshop.

19 VICE CHAIR GUNDA: Thank you, Chair Randolph.

20 We have Commissioner Monahan.

21 Commissioner Monahan, would you have any opening
22 comments?

23 COMMISSIONER MONAHAN: Yeah, I'll be really brief
24 because, I think, you, Vice Chair and Chair Randolph, have
25 already set the scene for today's workshop.

1 I just want to emphasize that this workshop and
2 these reports are an example of us trying to be as
3 transparent as we can be and to do the best evaluation
4 possible about what this transition is going to look like
5 and what the impacts are going to be to Californians.
6 We're very sensitive to the fact that as we transition to a
7 100 percent clean energy system, we need to be cognizant of
8 impacts, especially to lower income families in the state.
9 And this analysis is our best foot forward, I would say, in
10 this workshop in terms of collecting data, again, being as
11 transparent as possible, getting as much input as we can,
12 and then putting our best foot forward.

13 So I want to thank you, Vice Chair, for your
14 leadership in this space, Quentin Gee and Aleecia Gutierrez
15 and others in EAD who have really been doing kind of
16 groundbreaking, I would say, analysis, new analysis, and we
17 welcome feedback on that.

18 So just looking forward to the day, looking
19 forward to the conversation.

20 VICE CHAIR GUNDA: Thank you so much,
21 Commissioner Monahan.

22 With that, I would go to Deputy Secretary Nguyen.

23 DEPUTY SECRETARY NGUYEN: Thank you, Vice Chair.
24 Okay, I will be really brief because I think you all hit on
25 all of like the key points to make here.

1 But just to reiterate from the high-level
2 perspective of CNRA, you know as we transition away from
3 fossil fuels, it's important that we do this in a
4 thoughtful informed way really thinking about all of the
5 possibilities, all the impacts -- direct and indirect and
6 all the, you know, kind of like the nuances that need to
7 take place so that we don't create additional issues. And
8 so it's really important that, you know, not just that we
9 achieve our goal of transitioning away from fossil fuels,
10 but also doing it in a way that prioritizes affordability,
11 equity, and reliability.

12 And so I'm super happy that, you know, the Energy
13 Commission and CARB are thinking through all of these
14 issues in their work, both on the Transportation Fuels
15 Assessment and in the work that will be happening on the
16 Transition Plan. So thank you again to CEC and CARB teams
17 for all of your work that you've done so far and all of the
18 work that will be to come.

19 And appreciate the stakeholders for engaging with
20 us on this topic and making time to have these
21 conversations and really think about how we do this in a
22 holistic way without trying to increase impacts to anybody.

23

24 Thank you.

25 VICE CHAIR GUNDA: Thank you so much.

1 And welcome Deputy Secretary Izant. I apologize
2 if I said your last name improperly. Thank you.

3 DEPUTY SECRETARY IZANT: Thank you. Thank you
4 very much, Vice Chair. I will just say that it's great to
5 be here with all of you and wonderful to see so much
6 participation from the public on this workshop.

7 Really thank the CEC and CARB staff for all of
8 their work on the Assessment and really looking forward to
9 continuing to collaborate closely with the Air Resources
10 Board and with the Energy Commission as we work on the
11 Transportation and Fuels Transition Plan.

12 I'll leave it at that. Thank you.

13 VICE CHAIR GUNDA: Thank you so much.

14 And I have Director Bohan here from CEC.

15 EXECUTIVE DIRECTOR BOHAN: I just want to thank
16 Aleecia, Jeremy, David Erne, and Quentin and Aria, our core
17 team for all their work on this. Special shout out to
18 Quentin who did the lion's share of the drafting and a lot
19 of the research, and also to our sister agency, Air
20 Resources Board, for the collaboration.

21 VICE CHAIR GUNDA: Thank you so much.

22 So we'll now move to the rest of the agenda here,
23 but I just want to emphasize, you know, the collective
24 sentiment here that has been expressed as the importance of
25 having a transparent, thoughtful process that continues to

1 be in alignment with our climate and equity agenda in
2 California. So I'm really looking forward to this
3 conversation. Thank you.

4 Off to you, Quentin.

5 MR. GEE: Great. Thank you, Vice Chair Gunda,
6 and thanks to everyone on the dais, and for all attendees
7 that are here for this discussion today. I think it's
8 going to be really fruitful and interesting.

9 We can get the slides up. We can go ahead and
10 get started.

11 My name is Quentin Gee. I'm the Manager of
12 Advanced Electrification Analysis in the Energy Assessments
13 Division at the California Energy Commission. I have been
14 sort of the lead author on this, but also a lot of
15 additional work from a whole host of other people. We'll
16 give a good thanks to them at the end.

17 But yeah, this Transportation Fuels Assessment is
18 in the draft stages. We're looking forward to comment, but
19 we've done a whole lot of work here and we're pretty proud
20 of what we've been able to accomplish with this.

21 Next slide.

22 So just to kind of get everything out the door
23 here and started, there's a lot of acronyms and initialisms
24 and other notes that can oftentimes kind of fog up a
25 screen. So we've posted the slides publicly and anytime

1 someone runs into an initialism or an acronym that they're
2 kind of wondering what it is, feel free to keep an extra
3 window with this page open or whatever works for you all.
4 But, yeah, and, you know, as I go through this, I'll try to
5 avoid the use. I'll try to actually read out the acronyms
6 as they come on, you know, on those slides. But this is
7 just a good reference page for you all.

8 And then also just a key point on notes, unless
9 we otherwise indicate, all credits due to CEC staff on the
10 notes except on areas where we highlight other sources as
11 well.

12 Next slide.

13 So today, as we know, we're discussing the
14 Transportation Fuels Assessment, and we're also going to
15 have a lead-in discussion to the Transportation Fuels
16 Transition Plan. There are a whole lot of other activities
17 associated with the SB X1-2 work involved here. There's,
18 you know, issues around data collection, issues around
19 market analysis under the Division of Petroleum Market
20 Oversight, refining margin, and other maintenance
21 activities, all types of things that go into this. Today
22 we want to kind of keep this focus on the Assessment, the
23 findings of the Assessment, and then also on the Transition
24 Plan.

25 But, yeah, SB X1-2 passed last year. It's a

1 pretty groundbreaking bill that has a whole lot of new
2 activities on the part of the CEC to really get a hold of
3 what's happening in this sector of our economy.

4 Next slide.

5 So, yeah, what we'll jump into right now is sort
6 of the draft findings of the Transportation Fuels
7 Assessment.

8 I guess maybe to start this off, I would say kind
9 of like how we started off the Assessment is kind of from
10 this perspective that California is a fuel island. And
11 what do we mean by that? We kind of mean that there's --
12 we're kind of isolated in some really significant ways from
13 the rest of the country in a way that is not really fully
14 shared with other states. Some others, obviously, Hawaii
15 is an island, so they have their own unique, you know,
16 situation happening. But in many ways, California's fuel
17 flows are limited. And on the next slide, we can sort of
18 get a sense of what's happening here.

19 Next slide.

20 So, yeah, so this is a graphic that we developed
21 to try to track the fuel flows. There's always a little
22 bit of stuff happening here where it's a little bit
23 complicated and there's some rounding errors. What we did
24 was we tried to capture the fuel flows throughout 2022 and
25 put them into one meaningful, useful metric. And

1 throughout the report, we're trying to do as much as we can
2 to stay consistent with this single metric, which is 1,000
3 barrels per day on average. So, you know, there's, you
4 know, some ships come in, they've got 300,000 barrels.
5 Some ships come in, they've got, you know, fewer than that.

6 So there's a lot of different flows happening and
7 pipeline flows out of the state, but there's really not
8 sort of a -- I think that the TBD or the thousand barrels
9 per day metric is kind of the one that can be really
10 helpful for us to understand what's happening.

11 But what we mean by California as a fuel island
12 is, okay, there is a sense in which we are producing crude
13 oil, but we'll talk about that, but a lot of our crude oil
14 is imported. That goes into refineries, and then the
15 refineries produce particular output products, particularly
16 transportation fuels.

17 There is a little bit of import of fuels that
18 come into the state. However, that's going to have to
19 occur, basically, by ship. We don't have pipelines that
20 flow into the state. There's no pipeline for something
21 that goes from Nevada into California. We have a pipeline
22 that ships refined gasoline into Nevada, or a couple
23 pipelines, but we don't have anything coming in.

24 So that's what we mean when we talk about us
25 having a fuel island. What we really mean is there's not

1 really a whole lot of interconnection. If you take a look
2 at the East Coast, you know, whatever, a state on the East
3 Coast, pick your state, you see a broad network of pipeline
4 flows, regular connections, lots of interconnections with
5 other states and refineries. It's quite well-connected in
6 a pretty robust system, whereas California is in a little
7 bit of a different situation here.

8 Yeah, we do have some out-of-state exports by
9 marine, a little bit of gasoline, a little bit of diesel,
10 and a little bit of jet fuel flowing out, but not a whole
11 lot when you take a look at how much we're actually
12 producing in the state. So if you look at the in-state
13 fuel production, you can get a sense we're producing a lot
14 of gasoline to the CARB specification, CARBOB, California,
15 CARBOB, California blendstock for -- hold on. Sorry.
16 California oxygenated blendstocks for -- what?
17 California -- sorry. You know where it's at, CARBOB.
18 Yeah, I've been just saying CARBOB the whole time and now
19 I'm getting -- there's always like the CA, so California
20 blendstock for oxygenated blending. Sorry, it's been a
21 long week. Anyway, but yeah, so we have this special
22 specification that we need for the state to really maintain
23 our air quality standards, specifically developed by the
24 California Air Resources Board.

25 We also do produce standard BOB, RBOB,

1 reformulated blendstocks for oxygenate blendings, that's
2 also exported. So when you see those exports going to
3 Nevada or going to Arizona, that's a specification that is
4 not the CARBOB specification. We also have diesel flows.
5 We do produce a good amount of jet fuel. And, you know, we
6 don't just produce fuels. We do produce some residual
7 products as well. You can think of lubricants and other
8 sorts of things like that.

9 We do have these flows into Nevada and Arizona.
10 They are by pipeline only, and the pipelines go one
11 direction. They don't go into California. So that's
12 basically what sort of characterizes California as a fuel
13 island.

14 Next slide.

15 On the flip side of this fuel island issue is
16 that we are having a growth, a tremendous change in
17 transportation unfolding this year -- excuse me, in the
18 last few years and we're expecting to unfold throughout the
19 next decade or so, and that is the shift towards zero-
20 emission vehicles or ZEVs.

21 Here, we can see a chart showing the increasing
22 percentage of new vehicle sales. So when a new vehicle is
23 sold, it's registered by the DMV, staff at the California
24 Energy Commission track those sales in broad terms and are
25 able to detect that, you know, there's been a pretty

1 sizable signal and change to the point where in 2023, 25
2 percent of every single vehicle, 25 percent of all the
3 vehicles sold in the year were zero-emission vehicles.
4 There's been a little bit of a decline in quarter one of
5 2024. We think that this has to do with some subtle market
6 dynamics around interest rates and maybe some hangups and
7 carryovers with supply chains and some of the manufacturers
8 getting up to speed.

9 But overall, we still feel pretty confident. A
10 lot of our research and our analytical work focuses on
11 forecasting these out, and we feel pretty confident that we
12 are pretty well headed towards a ZEV future.

13 And then on top of that, we have the Advanced
14 Clean Cars II to regulation from the California Air
15 Resources Board that is going to put very stringent
16 requirements on manufacturers to ensure that they fulfill
17 this trajectory towards 100 percent zero-emission vehicle
18 sales by 2035, and that's kind of where we're heading.
19 Now, that's new vehicle sales. That does not mean that
20 every vehicle in the state must be a zero-emission vehicle.
21 But it does mean that we are on a pathway towards phasing
22 these cars out. Cars get old, they break down, people fix
23 them but eventually, you know, a lot of them end up leaving
24 the population or the vehicle stock in the state.

25 So we believe that we are on a pretty strong

1 trajectory towards a zero-emission future. And we are
2 dedicated to that as a state.

3 Next slide.

4 One thing that I think that is worth calling out
5 is that this zero-emission future, in terms of new vehicle
6 sales, is not uniformly shown throughout the entire state
7 or seen throughout the state. As you can see in this
8 chart, there are some areas in the state that actually do
9 not have very high percentages of zero-emission vehicle
10 sales.

11 And just as a quick note, we did modify San
12 Bernardino and Riverside counties down there in the purple
13 box to kind of characterize. Actually, if you look more at
14 the western portion of those counties, they're at the
15 higher percentage. And then the rest of those counties are
16 at a lower percentage rate. We do that by a ZIP code
17 analysis there.

18 But, yeah, we're looking at a pretty good
19 concentration in certain areas of the state but not the
20 entire state as a whole. So one of the things that we want
21 to be thoughtful about is the way that we go towards this
22 transition. And ensuring a reliable, safe, affordable
23 supply of transportation fuels is not necessarily going to
24 be the easiest for everyone. And so we want to be
25 attentive to those that are in the most need, particularly

1 individuals that live in low-income communities.

2 Next slide.

3 So let's fast forward to our forecasting and
4 future scenarios work that we have unfolding here. Let's
5 imagine that we're looking at 2035. And depending on how
6 you look at the Integrated Energy Policy Report that the
7 CEC does, in the orange and the green, you can see,
8 depending on the Energy Policy Report scenario that you're
9 looking at, the IEPR scenarios, we're looking at about
10 maybe 25 million, maybe 20 million, maybe even a bit fewer,
11 but also under the CARB Scoping Plan scenario, you can also
12 see how that is looking at closer to 16 million cars.

13 And we can compare that with the dashed line
14 above, which is the amount of internal combustion engine
15 vehicles today. So there's the internal combustion engine
16 vehicles today. We're looking at a stage where we could
17 end up going down quite a bit in terms of what it looks
18 like in 2035.

19 Next slide.

20 So here's another thing that I think was pretty
21 important that we have noticed in the Assessment, is that
22 California is becoming - while fuel and oil imports, crude
23 oil imports and fuel demand are both declining, or at least
24 crude consumption is declining, the way - there is a
25 particular and noticeable pattern in terms of imports.

1 And one of the things that we think about is kind
2 of like energy security and ensuring, you know, thinking
3 about ways that we can drive ourselves towards energy
4 independence. And this trend of, you know, California is
5 not producing as much crew to be used to. Alaska not
6 shipping as much crude here if it used to and now we're
7 more dependent on other regions of the world for the
8 transportation fuels. And this is one of the things that
9 we want to really be aware of that there's an opportunity
10 here as we reach towards a ZEV transition that we can
11 really be a bit more independent from some of the -- some
12 of the trading areas that that have proven to be somewhat
13 difficult and also the logistical matters associated with
14 this as well. It's a little bit harder sometimes to get
15 fuel from all over the world.

16 Next slide.

17 So here, what we did is we modeled out some of
18 these scenarios. As I showed you, there was a slide where
19 we had fewer internal combustion engine vehicles, either
20 under CARB's Scoping Plan or under the CEC Integrated
21 Energy Policy Report. But here, what we did is we actually
22 mapped out the demand for gasoline for those. In CARB's
23 scenario -- Scoping Plan, you can see that they are
24 declining quite rapidly in terms of fuel demand. That's
25 driven by not only zero-emission vehicles, but by

1 innovative strategies around reducing VMT that are going to
2 be really critical for meeting climate goals.

3 If you look at the fast scenario, that fast
4 scenario is the Integrated Energy Policy Report, what we
5 call the advanced electrification analysis -- excuse me,
6 advanced electric -- additional Achievable Transportation
7 Electrification Scenario 3, it's a lot but just IEPR fast,
8 I think, is a good way to think of it. That embodies the
9 Advanced Clean Cars II Regulation but also does not embody
10 some of those vehicle miles traveled rapid reductions
11 there. And then the baseline, or that slow scenario, is if
12 just, kind of, just the market just kind of goes unto
13 itself and kind of slowly unfolds there.

14 So each of scenarios really help us understand
15 the different sort of sensitivities that are going to be
16 out there in terms of what is gasoline demand going to look
17 like. How do we ensure that we are really thinking
18 creatively around the policy ideas out there?

19 Next slide.

20 Another issue that I thought was worth
21 highlighting in this, in the draft report, has to do with
22 some of the retail dynamics. You may have heard, I'm sure
23 folks who are familiar with the industry have heard this,
24 up like a feather -- excuse me, up like a rocket, down like
25 a feather phenomenon, a rapid increase, and then a slow

1 decline.

2 But what's interesting is that's not really as
3 obvious if you look at just the spot market, the wholesale
4 market that underlies this, or the production cost
5 associated with it. It's really more seen in the retail
6 sector. And we thought this was an interesting distinction
7 worth showing, that you can see sometimes during a price
8 spike, let's say all the production components really
9 increase, all the other costs associated with producing
10 increase, at the retail level, they're slow to kind of --
11 they kind of absorb a little bit of that increase in what
12 we call the pinch. But then the spot market prices can
13 decline, and yet the retailers are reluctant to lower their
14 prices. They do. The market kind of forces them to kind
15 of do that but they don't do it nearly as quickly. And we
16 observed this a couple times in the last two price spikes
17 that we saw in 2022 and in 2023.

18 Next slide.

19 So that was just a highlight of some of the
20 interesting findings that we came out with in the draft
21 Assessment. There's a lot of other important aspects
22 around it. But sort of getting to what we're really
23 looking at in the future is this sort of reliable supply of
24 affordable and safe transportation fuels in California.

25 And there's a lot of things that are involved

1 with the Assessment work here. There's a lot in the report
2 that's really interesting. I think Chapter 2 really goes
3 into the weeds a lot on a lot of issues that are
4 particularly of interest. But on the next slide, well,
5 maybe real quick, maybe just, we do discuss a lot of these
6 issues, branded and unbranded fuels. We discussed a little
7 bit about fuel additives. We discussed a bit about how
8 refineries operate. And the big one being price spike risk
9 management. That's one of the key things that we are
10 thinking about for the Assessment here. And that's what
11 we're kind of discussing on the next few slides.

12 Next slide.

13 So here we have as a way to sort of set the stage
14 here, is we're thinking about ensuring this reliable and
15 safe affordable supply. I think it was critical for us to
16 sort of evaluate what's the approximate amount of supply
17 that we're looking at as far as in-state goes, and how does
18 that contrast with sort of the demand spikes that we've
19 seen?

20 So what we have in this chart here, you can see
21 some grayed out refineries. Those refineries have either
22 closed or converted to renewable fuel production. But then
23 we have in the sort of bluish-tinted refineries, we have a
24 very approximate and, I would say, intentionally coarse
25 characterization of their production. We don't want to

1 give precise numbers here because those are protected under
2 the Petroleum Industry Information Reporting Act. So we
3 definitely don't intend to say this is exactly how much any
4 of them are refining, but we know their stated capacities
5 and we say about 60 percent or so is produced in the form
6 of gasoline.

7 And so understanding that approximate
8 characterization allows us to compare the total amount of
9 supply, sort of represented at the top with Chevron
10 Richmond sort of at the top of the stack there. And then
11 we can look in that purple dotted -- purple big circle dot
12 line, sort of the peak in month, peak demand for that year
13 of gasoline demand. And you can see that it's pretty
14 closely tight there. There's not a whole lot of additional
15 refinery capacity available in addition to what was sort of
16 demanded in a peak month.

17 There's a lot of more complicated dynamics, of
18 course, around this but this sort of gives a broad
19 characterization that as demand declines it's likely that
20 some of these refineries are going to shut down and we have
21 to be really thoughtful about managing, thinking about
22 policies that will ensure that that tightness there is not
23 something that contributes to price spikes or volatility in
24 the retail market.

25 Next slide.

1 So when we were thinking about the framework for
2 a reliable, safe, and affordable supply we came up with
3 some ways to categorize these different options. There's
4 some demand-side approaches here. There's some supply-side
5 approaches here as well. And sort of within the supply, we
6 wanted to think about three kind of basic approaches around
7 that supply issue, which is sort of like production,
8 storage, or imports.

9 Production is finding ways to get more fuel to
10 consumers in the case of, let's say, a price spike.
11 Storage would be a resource that would -- could be drawn
12 upon for short-term abatement of a price spike. Imports,
13 if we can rapidly get imports or reliably get imports, in a
14 way maybe we can also limit the impact of a price spike
15 there.

16 There's also some highly complex options out
17 there, policy ideas that are out there that, you know,
18 could be something that could contribute to, you know,
19 price stability and an affordable reliable, safe, supply of
20 fuels but will require, I think, a lot of dedicated effort
21 and time. But they need to be -- sort of see the light of
22 day so that people can begin thinking about these.

23 Next slide.

24 Okay, so when we're moving forward, we want to
25 make sure that we, in presenting some of these policy

1 ideas, we want to make sure that we can understand that
2 there's a lot of things to sort of balance out here.
3 There's fiscal impacts. There are regulatory obligations
4 and limits. And there's also, you know, public
5 perceptions, you know, and other industry perceptions, all
6 kinds of perceptions around how policies can change and how
7 certain -- some policy options presented here could impact
8 other policies that exist. And there's a tension there.
9 We need to make sure that we can address that.

10 So these aren't just -- you can't just create all
11 of these options all at once. You know, creating one
12 policy or building up one policy may limit your ability to
13 build up others, and so on and so forth.

14 But overall, for the next steps, before we get
15 into the policies, kind of where we're thinking about going
16 with these is continuing to work with CARB and the Division
17 of Petroleum Market Oversight on a prioritization plan for
18 the recommendations in the Assessment and also consider
19 stakeholder feedback, you know, one of the reasons why
20 we're having the discussion today.

21 Next slide.

22 So here's the kind of the list of them all. We
23 kind of can roughly break these into demand strategies, the
24 supply strategies, and then these highly complex
25 implementation policies. And then there's another at the

1 bottom. You might argue that's kind of complex, as well,
2 but let's go ahead and dig into each one of these one by
3 one.

4 We don't have a whole lot of time. My time is
5 limited. So I'll try to sort of briefly discuss and
6 characterize some of these, but then we'll have to move on
7 to the questions from the dais and public comment. But
8 this will be also a useful frame, I think, for the panel
9 discussion that we have as well.

10 Next slide.

11 Okay, so the first option, demand-side option, is
12 enhanced ZEV access. Getting ZEV adoption, accelerating
13 ZEV adoption even faster with steps, with state incentives
14 that are equity focused.

15 One of the interesting things that we noted in
16 this report is there's a lot of families that have two
17 cars. And one of the interesting dynamics that there
18 really hasn't been an opportunity to explore in, you know,
19 in as much -- in a whole lot of detail because this is a
20 new territory, but there may be a lot of families that have
21 two cars, and if one of them is a zero-emission vehicle,
22 that could create or introduce some demand elasticity or
23 change the demand elasticity. That is, right now, demand
24 for gasoline is not very elastic. If prices go up, people
25 might consume a little bit less, they might try to be a

1 little bit more thoughtful, but people need to drive in
2 this state. There's a lot of ways in which it's just
3 really difficult for families to really adjust to that.

4 But if they have two cars and they can be a
5 little bit more flexible, we're interested in thinking
6 about how this could actually unfold and increasing the
7 demand elasticity. Allowing people to be more flexible in
8 the cases of a supply shock or some kind of price spike
9 could be something that is pretty helpful in mitigating or
10 at least helping in some ways families that would otherwise
11 be impacted. So that's something that we really want to
12 continue to pay attention to, especially for the next
13 Assessment and as we see more zero-emission vehicles on the
14 market there.

15 There are some cons here with this because, you
16 know, these programs do cost money, but we are interested
17 in fully exploring this and continuing this with our
18 discussions with the Air Resources Board.

19 Next slide.

20 VMT reduction strategies, so vehicle miles
21 traveled, we can reduce our VMT. There's a lot of options
22 for doing that. Smart development, improved policies,
23 local policies, state policies, a lot of options here.
24 There are some limits with how much this can be done, but
25 it's something that we want to make sure that we fully

1 explore. We think that these demand side approaches are
2 probably the first ones we should go to. But yeah, it is
3 difficult. There are some areas of the state that just are
4 not as amenable to VMT reduction strategies.

5 Next slide.

6 We have fuel conservation measures. This would
7 be a little bit more in response to a particular price
8 spike. There's some balances that we have to think about
9 with this as well. We are thinking about ways in which we
10 might be able to get people to be a little bit more
11 responsive by curtailing their demand. At the same time,
12 we don't want to create programs that basically tell
13 everybody to go out and fill up as soon as you can. But
14 there are some ideas out there that we want to continue
15 discussing and have put out there in the Assessment.

16 Next slide.

17 Storage strategies. There's actually several of
18 these strategies discussed in more detail in the
19 Assessment. But broadly speaking, storage, you know, you
20 can see a big huge sort of storage facility out there. You
21 can see some of these tanks out there. You know, if we
22 have more of those or we're able to use some that are
23 phasing out, or if necessary, you know, the state might
24 consider building some new ones, there's a lot of different
25 ways that we could go around this, but basically, it

1 creates a buffer. And you can draw upon that buffer during
2 times of a supply incident, and you can basically live a
3 little bit off of that or add a little bit more fuel to the
4 market than would otherwise normally be, you know, if
5 you're just looking at a just-in-time, like right out of
6 the refinery into the pumps, right, that sort of thinking.

7 So a little bit more storage could be really
8 helpful here. And this is an idea that I think is,
9 depending on how, you know, there's a lot of different
10 options of how you do storage, but that's one that we think
11 stakeholders have expressed a particularly strong interest
12 in.

13 Next slide.

14 Production enhancement strategies, this is
15 another approach. Again, there are several options here,
16 but thinking about different ways to get more supply out
17 there, so that is separate from drawing on that storage
18 reserve. So this would be finding ways to get additional
19 fuel by, you know, certain production techniques. There's
20 discussion also of a more unified alignment of fuel
21 standards across different states. These different sorts
22 of options out there could be helpful for us to increase
23 the supply. At the same time, there is a critical
24 environmental tradeoff. We don't necessarily want to, you
25 know, make -- reduce standards in a way that is harmful to

1 Californians.

2 Next slide.

3 Alignment, so this kind of speaks to the other
4 issue, the alignment of the gasoline for western states.
5 This is a little bit distinct from some of the other supply
6 measures that are discussed in the Assessment. But one of
7 the big challenges here is making sure that we can work
8 with the appropriate state partners to get the kind of
9 agreement that we're looking for. We're hopeful that we
10 could have a few discussions, but we will see where this
11 leads us in the future.

12 Next slide.

13 Import strategies. This is another one that
14 received, I think, a lot of stakeholder attention, trying
15 strategies that can increase supply directly or indirectly
16 by bringing fuel from refiners from outside of the state.
17 This, again, is tricky. There's lots of different ways
18 this can unfold. You could have sort of some regular
19 shipments during a critical supply period where you're
20 worried. You could have something that's a little bit more
21 on call. You could have a reliable source that's available
22 throughout the year. There are lots of things that could
23 be useful here in terms of imports, creating incentives for
24 additional imports from folks that already import.

25 There are challenges here. Imports cost more.

1 They do take time to get here. You know, there's a lot of
2 imports, strangely, that, you know, most people might not
3 be aware of this, but there's actually a lot of imports
4 that we get from the Netherlands of CARBOB. That is not
5 the closest location to California. So it might take a
6 little bit of time. So there's lots of tradeoffs there and
7 lots of issues around cost that have to be thought through
8 a little bit more.

9 Next slide.

10 Gas price stabilization fund. What could be done
11 in this situation is during times of lower gas prices, fees
12 would be levied in a variable manner and then allow for
13 reduced taxes or fees during times of high gas prices. So
14 trying to sort of stabilize the price in a way that is more
15 helpful for that sort of reliability that consumers need
16 with prices.

17 Next slide.

18 A cost of service model is another approach,
19 again, another highly complex implementation effort, but
20 basically, yeah, regulate the operating rules, prices, rate
21 of return of the petroleum fuel market. This is something
22 that would take a lot, quite a bit of effort and
23 involvement, but this may be something that is necessary as
24 we're looking at an increasingly concentrated market.

25 One of the challenges here is that it's not quite

1 the same as a natural monopoly, which would be a little bit
2 different. So you could think of like power lines as kind
3 of like a natural monopoly. You can't just build tons and
4 tons of, you know, Joe's power line and, you know, this
5 other power. And you can't have, you know, 50 different
6 power lines. You can have a bunch of different players in
7 a market importing. So the natural monopoly isn't quite
8 there in the exact same way, but it's not something that we
9 want to rule out.

10 Next slide.

11 State-owned refineries. This would be a little
12 bit more, a stronger reaction where the state would
13 purchase and own refineries and run the refineries to
14 manage the supply and the price of gasoline. This would be
15 something that would allow a lot more control over how
16 refineries operate and it could be useful as we think about
17 a transition away from fossil fuels as well.

18 Next slide.

19 Retail margin management, so measure, publicize,
20 potentially manage retail margins. This would be something
21 that would allow -- sort of create a little bit more
22 transparency to sort of help consumers be more informed.
23 There were some problems that we noticed in the spot market
24 in particular, and that's a little bit separate from the
25 retail market. But where there's more transparency, we

1 think that it actually can be quite helpful. We have to be
2 careful not to create a situation where, you know, private
3 operators are just totally out in the open and there's
4 weird, you know, competition issues that could be
5 associated with that.

6 One challenge would be that it would be difficult
7 to get the data. Right now, the way that the tax system
8 operates is that it's not so the excise -- or the tax on
9 gasoline works is that it's not the easiest thing to
10 administer at this point at the at the local retail level.

11 Next slide.

12 So the final one is rail car replenishment.
13 Basically, we would use rail cars to provide a conventional
14 CARBOB or conventional BOB to California. This would be
15 something that we're thinking of as not necessarily a
16 regular policy, but something that we should be having our
17 attention to, especially as the market becomes more
18 concentrated. Smaller amounts of demand could mean that
19 there's a little bit less resiliency in the system.

20 And should there be some kind of acute event, you
21 know, it could be a large natural disaster that totally
22 disrupts pipelines or something, or refineries, this is
23 something that we want to have our attention to. It's a
24 little bit outside of, like, kind of the response to the
25 standard fuel price spikes that sort of, I think, spurred a

1 lot of the SB X1-2 work. But it's something that the CEC
2 has had its eyes on in the future, because this is a really
3 fundamental fuel for the state's economy at this point in
4 time.

5 Yeah, so those are the, those are the policy
6 options.

7 I think on the next slide, I think we're about
8 done here or I'm about done with presenting the slides,
9 you're not done, but, yeah, I did want to thank Aria
10 Berliner, Bryan Hsieh, and also the PIIRA team at the CEC,
11 in particular Alexander Wong who did a lot of writing on
12 the report, Andrew Bailey, a lot of ton of coordination and
13 data gathering, and Ryan Eggers, a lot of support from
14 them. And then also we had some really great technical
15 support from contractors from ICF and Stillwater and
16 Associates.

17 Thanks.

18 MS. GUTIERREZ: Okay, so for the next segment,
19 we've got our reactions panel with our stakeholders. So
20 I'd like to introduce Aria Berliner, who is our moderator
21 for the panel.

22 MS. BERLINER: Hi everyone. As Aleecia said, my
23 name is Aria Berliner and I'm a Special Advisor to Vice
24 Chair Gunda, supporting him on SB X1-2. Today I'm joined
25 by Julia May, a Senior Scientist at CBE; Elena Krieger, the

1 Director of Research at PSC Healthy Energy; Connie Cho, the
2 Just Transition Policy Strategist at APEN; Mike Smith, the
3 Chair of United Steelworkers; and Cathy Reheis-Boyd, the
4 president and CEO of the Western States Petroleum
5 Association.

6 We only have, I think, about 45 minutes, so I do
7 want to just kind of dive into questions.

8 Of the policy options presented in the
9 Assessment, which do you think needs more investigation?
10 And I'm going to start with Julia May.

11 MS. MAY: Thanks. I want to first preface that
12 by saying, thank you so much for the hard work. This is
13 hard stuff. We want to also emphasize the context that we
14 need to focus on fossil fuel phase out and stopping the
15 price gouging. It's doable and we need to escape the
16 fossil fuel captivity by the oil industry.

17 But to answer the first question on assessment,
18 we're interested in more evaluation of the Cost of Service
19 Model number 9, which is basically a utility model. We
20 need to regulate the oil industry supply, phase down the
21 supply, as well as the pricing. And we're interested in
22 more information on the utility model and exploring
23 possibly other options for regulation of the industry by
24 the state.

25 We're interested in storage options, as well, to

1 smooth out the supply as we phase out our refineries, and
2 although we would like to see the onus put more on the oil
3 industry instead of the state, but we'd like more
4 information about those.

5 And we have other options to talk about we can
6 talk about later.

7 MS. BERLINER: Thank you.

8 I'm going to bring it to the room. Elena, I have
9 not forgotten about you, but I wanted to pose the same
10 question to Cathy.

11 MS. REHEIS-BOYD: Good afternoon and happy
12 Friday.

13 First of all, I just wanted to, you know, thank
14 both the CEC and CARB and CNRA, Kelly P. (phonetic) and
15 everyone else for being here and having this conversation
16 because, for me, the intersection of the environment and
17 the economy and transportation, this is all so important.
18 I've actually been looking forward to kicking off this
19 Fuels Assessment study so we can get to the conversation.

20 The other just quick intro I will make is that,
21 you know, aspirational goals and the goals that we have in
22 California are very important, but also the technical
23 realities can get in the way of aspirational goals if we
24 are not careful. So I think what I'm hearing today is
25 actually giving me hope that we will be diving into the

1 many issues that are before us, and I love the
2 presentation on the options because those are the things we
3 really need to be talking about, so love that.

4 Just so you know, Turner, Mason & Company has
5 been secured by us to also dive deep into this discussion,
6 much like ICF and Stillwater. We're very happy to share
7 the information from our lens of what that's looking like.
8 We think it's informative, tracks with some of what the
9 other consults are seeing as well. I think it'll be
10 valuable for as we go through towards the fuel transition
11 study.

12 And then just happy, so happy that, also,
13 Commissioner Monahan is here, and obviously Chair Randolph.
14 And just the whole IEPR discussion intersects so much here.
15 So this is not just about the fuel assessment study. It's
16 also about the IEPR and all of the intersection of liquid
17 fuels, hydrogen, natural gas, renewable electricity. All
18 of them are in here because it's not just molecules, it's
19 electrons and molecules that are colliding in the
20 transportation space. And so to get this right, we've got
21 to address all of them.

22 And while I get into the first question, Aria,
23 thank you very much, I'm just going to have Mark Nechodom
24 on my staff pass out what we are using internally, which is
25 what we call the placemat. It's literally just a graphic

1 representation. We actually laminated it so you could draw
2 on it with pens. But we'll just pass it out because it's
3 something we use internally as just a way to look at how
4 supply moves through the transportation market from, you
5 know, how it's stored to bulk delivery to meeting consumer
6 demand, and so it's just something we utilize internally as
7 we have this conversation.

8 So to the question, Aria, thank you very much, so
9 what needs more investigation? I think we know that price
10 spikes tend to come from rapid changes in supply, some of
11 that, unplanned outages, obviously, at low inventory. But
12 as we look at these policy options to prevent price spikes
13 and looking at several options to reduce the magnitude and
14 duration, as noted in the Assessment, the issue of storage
15 infrastructure, supply, obviously critical, ensuring that
16 we have consistent and reliable supply, and minimizing the
17 structural obstacles that you see on the placemat to meet
18 demand. That's going to be a very important area to dive
19 deeper into under the storage infrastructure.

20 Capacity, I think Stillwater and ICF both pointed
21 out, there is no significant excess capacity in the system.
22 So we are interested in looking more into the storage
23 infrastructure section.

24 The resupply compensation, which I think is
25 Option 15, the state sharing in the commodity risk as a

1 market participant, interesting, probably needs more
2 discussion, interesting.

3 Demand reduction scenarios, Option 1 through 3, I
4 think it's absolutely important that CARB is diving in on
5 options to reduce fuel demand with the CEC. Important
6 area, obviously. Demand, supply, supply, demand.

7 Having a chapter, one suggestion, to have a
8 chapter on each major element of the transportation energy
9 system, and scheduled workshops for that deeper dive going
10 forward on each of those elements we think would be
11 critical. Ports and imports could be one of the first ones
12 we do, bringing in the Port of L.A., the Port of Long
13 Beach, up in the Bay Area, bringing in the shippers, having
14 the conversation about what that looks like, since it's so
15 prominent in this Assessment, I think would just be a
16 excellent workshop to have so we can really dive into the
17 issue.

18 And then I think if you could include an analysis
19 of economic impacts on sectors like agriculture,
20 manufacturing, and I would also put on the table asphalt,
21 because how we end up going here could impact how asphalt
22 is made and delivered. And so it's another area I think
23 that could use given what we all use asphalt for, that we
24 should dive into.

25 And then I think you already have this in there,

1 but just looking at the effects of a slower build-out of
2 the electrical infrastructure, we all hope it's going to go
3 the way. I love the different scenarios that we're looking
4 at in case it doesn't.

5 And then how that, how, also, I think the rapidly
6 increasing electric rates, electricity rates, you hear it a
7 lot, you see it a lot, you feel it a lot, it's becoming
8 quite prominent. So that's just in the mix of this whole
9 area of what needs more investigation.

10 MS. BERLINER: Yeah, of course.

11 VICE CHAIR GUNDA: Thank you, Aria.

12 Cathy, just on that particular one, the
13 intersection of electric rates and the refinery operations,
14 is the electric consumption of the refineries a pretty big
15 part of operational costs?

16 MS. REHEIS-BOYD: I can tell you that it's
17 important enough that when we have rolling blackouts, we
18 get calls from the administration to see what we could do
19 to reduce that impact and put more on the grid. So I do
20 think it's an area that we should really look at.

21 MS. BERLINER: Thank you.

22 And then, also, I do want to ask, Cathy, that you
23 submit this placemat to our docket, just so that it can be
24 shared with everyone joining at home.

25 MS. REHEIS-BOYD: Happy to do that.

1 MS. BERLINER: Thank you.

2 MS. REHEIS-BOYD: It's fun to draw on.

3 MS. BERLINER: Great.

4 Next up, Elena, we have the same question for
5 you.

6 MS. KRIEGER: Great. First of all, again, thank
7 you for all of the work and opportunity to speak.

8 I think I'm going to echo some of what Julia said
9 here. I am certainly interested in thinking about options
10 to create what effectively would be a public utility model
11 or some other kind of oversight to better regulate fuel
12 prices and rates of return, particularly as the number of
13 refiners continues to decrease.

14 It is interesting to note that as we electrify,
15 energy for transportation will inherently become something
16 that becomes managed under the same way as the utilities.
17 So it seems like there could be some coordination here to
18 think about overarching regulatory structure that supports
19 equitable and affordable fuel switching from gasoline to
20 electricity, since these are currently regulated
21 separately.

22 This actually might help align incentives and
23 processes. You could target, for example, households that
24 have high energy and transportation cost burdens with
25 various kinds of interventions, fund the panel upgrades

1 that would help electrify cars and appliances, and
2 hopefully improve the overall efficiency and effectiveness
3 of these measures.

4 Increasing the fuel storage minimums at existing
5 sites is also intriguing and I think would be valuable to
6 continue to collect data to see what kind of cushion this
7 would provide, both today and in the coming decade as total
8 demand continues to decrease, which of course means that
9 the percentage of demand that could be stored should
10 theoretically increase.

11 I mentioned you have the option of expanding
12 CARBOB gasoline to other nearby states. Of course, a lot
13 of this is going to be outside of California's control.
14 But if federal ozone standards are lowered in the coming
15 years, which seems possible, this could actually provide
16 some additional incentives for other states to switch over.

17 This is one of the more health-protective
18 policies that is being proposed and stands in contrast to
19 the proposals to switch to the winter fuel mix early and to
20 enable non-CARBOB sales when prices spike. Both of these
21 move in the wrong direction, loosening public health
22 protections when we all know that most of the state is
23 already out of attainment for air quality standards, and
24 they set a very poor precedent if we decide to sacrifice
25 public health every time there's an energy reliability or

1 security concern.

2 And then I think what the last couple of years
3 and what this, you know, huge portfolio of options reminds
4 us is that it's really hard to fix multi-to-cable
5 structural problems with emergency stopgap measures.
6 Transportation energy cost burdens aren't new, they're just
7 getting exacerbated. So while we should pursue some
8 measures to mitigate near-term price spikes, we do have to
9 continue to pursue the long-term urban planning goals, such
10 as transit-friendly low-cost housing and improve public
11 transit and walkability that support a reduction in demand.

12 All these policies are important, but also take a
13 lot of coordination across multiple jurisdictions and are
14 often hard to achieve and slow to make progress.
15 Prioritizing them now will help provide protections in the
16 future.

17 Thanks. Back to you, Aria.

18 MS. BERLINER: Thank you.

19 Mike, same question.

20 MR. SMITH: All right. I'd also like to thank
21 everyone for the opportunity to speak as a representative
22 of the oil workers for the United Steelworkers in the state
23 of California. Obviously, the energy transition here in
24 the state has been, you know, detrimental to some of our
25 members and the communities in which refineries have shut

1 down. And as you've seen in the chart with the multiple
2 grade refineries that have shut down, those are thousands
3 of our members who have lost their jobs and struggle to
4 continue -- and continue to struggle to find jobs with
5 equal pay benefits, family-sustaining jobs.

6 As to the question, some of the policies that
7 we -- options that we kind of thought needed more
8 investigation, looking at leasing and storage, we have
9 probably a lot more questions to that. I know there are a
10 couple of refineries that have transitioned but I still
11 believe that, you know, I mean, I'd take for -- take them
12 at their word that a lot of those tanks probably are in
13 service and wouldn't necessarily provide enough to be able
14 to prevent price spikes.

15 We are interested in, you know, kind of like the
16 California -- I guess it would be like a California SPR,
17 basically. But not understanding, California is not like
18 Texas, where there's massive tank farms around that can
19 control, or Cushing, or any of those areas in Oklahoma.
20 We're kind of skeptical if the state would be, you know,
21 willing to invest in producing, in manufacturing these tank
22 farms with the overall goal, I think, as the energy
23 transition and the fuels markets decline.

24 So, you know, while we think those are probably
25 more feasible and we're kind of more comfortable than with

1 some of the other policy options, we think that those would
2 need some -- we'd like to see some more investigation into
3 those and understanding of how that's fed, how you're --
4 you know, are there imports coming into that? Are they
5 actually bringing, you know, or are the California
6 refineries providing the strategic petroleum reserve, I'll
7 call it, for California? So there's a lot of questions as
8 we dive in, and I'll leave it at that.

9 MS. BERLINER: Thanks.

10 Connie?

11 MS. CHO: Hello everyone. Thank you for
12 including us in this conversation as well. I also want to
13 thank the Energy Assessments Division and, of course,
14 leadership for starting this incredibly important process
15 with rigor, humility, and an eye towards both short- and
16 long-term solutions.

17 So of the policy options presented, which do I
18 think needs more investigation? In the longer term, so
19 that means we should continue to investigate it now, start
20 that process now, is certainly the cost-of-service model or
21 utility regulatory model, recognizing that fuel is actually
22 an essential product, an essential good that should be
23 treated more like the public good that it is, especially as
24 we are undergoing this absolutely necessary energy
25 transition to meet the climate crisis.

1 And as for shorter-term options, the Strategic
2 Petroleum Reserve or storage strategies also seem important
3 and would need a lot more detail to be able to discern
4 between them and making sure that we are also able to
5 remain safe in the process for our frontline communities.

6 And of the demand-side measures, public transit
7 is a huge -- incentives for public transit are a huge need
8 for our communities that rely more heavily on public
9 transit measures. Sometimes the demand for public transit
10 looks low but, in fact, it would be higher but for the fact
11 that there's low investment in public transit. So this is
12 something we consistently hear across our communities and
13 would put at the forefront of the demand side strategies.

14 And I suppose we'll get to the other questions.

15 But I do want to say, as an opening, this is a
16 huge opportunity to address both the cataclysmic and
17 existential threat that is the climate crisis. And I want
18 that to be an important frame that we always keep in mind
19 as we're discussing the other ripple effects of that
20 transition or of this transition to meet that climate
21 crisis.

22 And we are also able to at this moment in history
23 address the systemic injustice of an ongoing public health
24 crisis that has placed an overwhelmingly disproportionate
25 burden of air pollution that has resulted in

1 disproportionately high rates of cancer, respiratory and
2 cardiac disease, premature death in lower-income
3 communities, predominantly communities of color. This is a
4 critical moment in our history in this state and in the
5 country to be able to address these communities that have
6 borne the pollution that we all -- that we have all used.
7 We have, on their backs, been able to fuel this economy and
8 our travel day-to-day, so we actually have a chance to do
9 something about it now.

10 MS. BERLINER: Thank you.

11 So I kind of want to follow up on a little bit of
12 what Cathy said, because she was sort of talking about, a
13 little bit, about policies that weren't included in the
14 Assessment but kind of wish that they were.

15 So, with that, I'm going to start off with
16 Connie. Are there any other, any policies in that, that
17 you wish you had seen in the Assessment that weren't there?

18 MS. CHO: Thanks, Aria. Well, I had three, and I
19 was really proud that I had three, but then Quentin
20 presented, and now I have four.

21 But first, we believe there's really a missed
22 opportunity to assess the dangers and, therefore, for the
23 safety of refinery operations and combusted fuels on fence-
24 line communities. Obviously, this Assessment has been a
25 huge effort and we appreciate the thoughtful work on it.

1 But we do think that overall, because safety for our
2 communities was a significant gap in how the policy options
3 were analyzed or considered, and the Assessment of a safe
4 supply is in the statutory language, we think that some of
5 these policy options that weren't included would help
6 address that.

7 And I'm here as an advocate and representative
8 today, and I go back and speak to our communities, our
9 youth, our elders, our working-age members, and they really
10 asked me to -- what they really asked me to do as their
11 representative here is that the Assessment should include a
12 specific policy option that discusses regulation,
13 prioritizing the safety and health of our communities by
14 creating a reliable schedule of required milestones that
15 track the phase down of total emissions/pollutants at
16 refineries. So this policy option must be a part of the
17 conversation at what it means to steward a just transition
18 so that it is not only safe but equitable. Our communities
19 are living on the front lines of dangerous explosions,
20 fires, toxic leaks and spills, in addition to air and water
21 pollution.

22 So instead of guessing or making assumptions
23 about refiners business decisions as a part of a
24 qualitative explanation, asking questions like, well, how
25 much more export or biofuels would refiners really make, I

1 urge you to prioritize our communities and the importance
2 of securing reductions in terms of cumulative pollution
3 burdens.

4 And so this could be designed in a very broad
5 way. The specifics would need a lot of investigation. It
6 would need an administrative process. But we urge you to
7 include it as a policy option here so that it is a part of
8 the conversation. It is a way to make some of the language
9 at the beginning of the Assessment about the importance of
10 environmental justice and environmental impacts more real.

11 Second, it seems that we're missing policy
12 options that squarely and directly address the impact of
13 price spikes on consumers, so policy options that look
14 towards directly paying our communities so that there is a
15 greater ability to pay for those fluctuating prices for
16 fuel or directly paying for safety net for communities and
17 workers to make a transition, not just after a shutdown but
18 prior to that crisis point for refinery workers and prior
19 to the pain point for local public employees.

20 It's a tension for us too. The health impacts of
21 a refinery -- refineries declining and closing and leading
22 to total emissions declining results in health benefits.
23 And health benefits aren't just about, you know, your
24 body's condition, that also has a cascading impact on your
25 ability to operate in the economy and in your social fear.

1 And so that is a cost-benefit analysis that have to be done
2 for our communities. But still our communities are asking
3 for these types of policies.

4 And the fourth item -- or I suppose this is still
5 three policies, is I'm curious about policy options that
6 more directly address, there was one, but more directly
7 address why retailers don't adjust their prices as quickly.
8 So are there policy strategies to break up the market power
9 that refiners exercise over retailers in what I assume are
10 their long-term contracts? And perhaps this is a question
11 for CTFA, but I wonder if the CEC could at least identify
12 whether that's something that's regulated at all in other
13 states or what that relationship or what that policy arena
14 looks like.

15 Thank you.

16 MS. BERLINER: Thank you. So I was going to give
17 it to Julia because I felt like she probably was going to
18 have some really good things to piggyback off of, but one
19 policy option that I thought was really interesting was
20 directly paying the consumers for the price spikes. And
21 then, also, you talked about a little bit, and maybe I
22 misheard, a little bit about the union members or labor
23 that are losing their jobs, and so like as a result of
24 refineries transitioning or closing down. So I actually
25 want to pass it to Mike.

1 MR. SMITH: So kind of to address at least
2 something that we would have liked to have seen is like a
3 refinery modernization incentives something that would
4 provide like financial incentives for refineries to
5 modernize facilities to process alternative fuels or to
6 implement more efficient and less polluting technologies.
7 It could also include things like carbon capture and
8 storage. But those investments, I think, would bring some
9 stability to the to the to the sector in the state.

10 As the transition happens, as I think I've spoken
11 before, it's going to be clunky because you're going to see
12 refineries as a chunk shut down rather than the nice, you
13 know, the slow demand decrease it's going to go down clunky
14 and price spikes are going to happen. So the stability
15 provided by investments into those modernization incentives
16 we think would be something to look at.

17 As far as the impacted workers we've -- you know,
18 there is a plan, and I don't know if it's necessarily part
19 of this whole discussion but maybe it's part of the
20 Transition Plan, I mean the state currently has a displaced
21 Oil Worker and Gas Fund that we were successful in getting.
22 But when you're talking about, I think, we've got, you
23 know, \$15,000 per member to help support -- to support our
24 members, which is basically -- you know, which isn't very
25 much to try to figure out what we've done.

1 There's plenty of reports out there that we've
2 worked with universities on what the effect and impact to
3 not only the workers but the communities, surrounding
4 communities and how, you know, the percentage of our
5 members who lost their jobs who are continued to be paid
6 significantly less with no, like I said earlier, no
7 benefits, no union benefits.

8 A lot of our contracts are 70, 80 years old.
9 We're proud of the contracts that we bargained. A lot of
10 the new transition technologies, it's not really defined
11 yet. It's hard to say we're going to transition you to
12 this, when we don't know what this is yet. The employers
13 aren't there. Obviously, whether it's unionized or not,
14 you know, a lot of the next technologies aren't and don't
15 have the contracts, don't have the benefits. And asking
16 somebody that's 45 or 50 years old to take the \$15,000,
17 take some training and then figure out how they're going to
18 finish their kids last two years of college or any of
19 things like that, so it's concerning.

20 So as we think it's important to protect the
21 consumers, we are also consumers on price spikes. But I
22 think a big discussion has to be the transition of the
23 workers, the transition of those communities, the tax bases
24 inside those communities. I came out of a of a refinery in
25 a city that I think the tax base is a large percentage, and

1 so it would devastate not only the workers but the
2 communities around services, emergency services, teachers
3 and everything.

4 So the overall Assessment needs to be, I think,
5 addressed as far as the workers and the communities of the
6 transition. And, you know, to be honest the -- and I don't
7 think one of the questions is what's concerned but, you
8 know, when we when we see things like imports,
9 incentivizing imports, I'm not sure of any products that we
10 would have out would incentivize to import products.

11 Our members and our union have worked with the
12 industry and the state around AB 32, low-carbon fuel
13 standard process safety management regulations that we
14 think lead the lead the world. We think that they are the
15 cleanest and safest refineries in California for a reason,
16 but we would hate -- the ability to incentivize the
17 refiners to import fuels from Asia or the global south
18 would basically be shipping our jobs here in California
19 away.

20 So we obviously will provide the comments and
21 really want to try to have a discussion around import, so
22 that's it.

23 MS. BERLINER: Thank you.

24 Julia?

25 MS. MAY: Thanks. I want to agree with the

1 statements that Connie made earlier. And we also have
2 extensive comments we can make in writing. So we'll try to
3 be quicker about these.

4 We absolutely support the workers. And the oil
5 industry has extracted billions of dollars from the public.
6 and that leaves a lot of money that could be used to
7 support worker transitions and refineries should be
8 required to. But instead of looking at -- what we see, you
9 know, supposedly refineries have, every time they do an
10 expansion, they call it a modernization. They have been
11 getting bigger over the decades in California and
12 expanding, and we've worked hard on regulations to make
13 them safer and reduce air pollution and put in control
14 equipment. But these are dirty industries -- inherently
15 dangerous.

16 So one thing missing from the plan is an
17 assessment of safety. Our communities in Richmond and
18 Wilmington and other refinery communities are blasted
19 consistently by pollution from refineries. It is unsafe to
20 use the fuels. Six of ten of the worst states for smog in
21 the nation are in California, so we need to phase out these
22 fuels for health. And we're facing catastrophic climate
23 change.

24 So instead of looking at expanding refineries,
25 we're saying a couple things. One, look at exports. We're

1 still exporting gasoline to other countries. And secondly,
2 we proposed a different model for a more gradual phase down
3 of refineries in line with the demand. The demand goes
4 down more gradually. And one thing that the state has been
5 worried about is when you have a whole refinery shut down,
6 it leaves the workers -- it dumps a bunch of workers and it
7 may not be a gradual decline that's in line with demand.

8 So instead of whole refinery shutdowns, we're
9 asking that you also consider a partial refinery shutdown
10 pathway. We've seen that several of the larger refineries
11 have duplicate distillation and cracking units that make
12 most of the gasoline. And so over the years, there's been
13 expansion where we see a design to add that capacity, that
14 duplicate capacity. We would essentially like to see
15 reversing that design. So you could shut down some
16 cracking and distillation units at larger refineries. It's
17 not quite as simple as that. You need to design there's
18 associated units, but you could do that, instead of
19 shutting down an entire refinery, to more gradually reduce
20 supply. We believe strongly supply must be managed by the
21 state, not just demand reduction. And the workers need to
22 be supported, as well as the communities, while we do this.

23 But we're far past the point of saying, should we
24 do it? We're really facing catastrophic climate change.
25 People cannot live with all the smog and toxics that they

1 breathe next to the refinery. There's regular explosions
2 and constant invisible emissions.

3 There's one other thing I wanted to say is in
4 addition to assessing safety, which includes not only
5 refinery safety, but smog and climate safety, we think the
6 baselines being considered should remove the outliers in
7 the Assessment, the really high gasoline projections for
8 the future. They include or they -- the highest one
9 assumes that the Advanced Clean Fuels will not be carried
10 out, not be implemented, and those are adopted regulations.

11 So we believe the Commission should ditch those
12 really high outlier future demand forecasts so we can plan
13 according to our existing policies, including that we
14 already adopted advanced clean fuels and we need to manage
15 the space down in a smooth way. There are other methods we
16 identified in our partial refinery shutdown pathway that
17 includes a way for all refineries to more gradually reduce,
18 and we think you should consider that as well.

19 We'll have written comments as well on many other
20 particulars. Thank you.

21 MS. BERLINER: Thank you.

22 I do want to flag that we only have about 15
23 minutes left on this. And I know I still want to get to
24 Elena and Cathy on this point, but just flagging everyone
25 for time.

1 Elena?

2 MS. KRIEGER: Thanks, Aria.

3 So briefly at first, I do like the idea of
4 continuing to explore additional demand side measures that
5 improve affordability. I think you are considering an
6 option to make public transit free, for example, when there
7 are price spikes, which could help reduce demand, even if
8 the actual demand reductions come mostly from urban areas
9 rather than from some of the rural areas where we may see
10 some of the highest transportation cost burdens and where
11 EV adoption is lagging behind.

12 I also think we should expand how we think about
13 incentives for low- and moderate-income households to
14 purchase electric vehicles. Right now, these are mostly in
15 the form of, say, getting \$7,000 to purchase a vehicle.
16 But the state could also have a role in providing low-
17 interest financing. Unlike a straight incentive approach,
18 a low-interest financing model would ultimately provide a
19 revolving fund that would not require reallocating funding
20 every few years, which was one of cons that was highlighted
21 for this option, and which might be more resilient to
22 budget shortfalls. This would also be very valuable for
23 more moderate-income households who do not qualify for
24 current incentives but still struggle with transportation
25 cost burdens and do not have the cash to afford an electric

1 vehicle.

2 And then echoing some of Julia's comments, we do
3 need to wed this effort within a managed decline framework
4 that has guardrails for workforce, public health, and other
5 societal goals. Just letting market forces decide which
6 refineries stay online will not inherently address
7 longstanding public health concerns. I'm thinking, for
8 example, of the cumulative burdens from the numerous
9 refineries co-located here in the East Bay. Under market
10 forces alone, many of these refineries might shift to
11 exports or to biodiesel production, which has poorly
12 characterized health impacts, although we're working on
13 that, and might continue to propagate on-road emissions
14 from burning biodiesel.

15 A managed decline framework could also help
16 identify how to retire refineries in line with demand in a
17 way that protects energy security while simultaneously
18 protecting rather than exacerbating public health or
19 workforce impacts. Connie suggested a version of this as a
20 policy option, and I think this really might be best
21 considered as an umbrella policy under which all of the
22 other policies should fit.

23 And back to you.

24 MS. BERLINER: Thank you.

25 And Cathy?

1 MS. REHEIS-BOYD: Yes, thank you very much. And
2 certainly, I think there's many, many things we are much
3 more unified on than we are divided in this topic. And I'm
4 very excited again about this conversation and where we're
5 going. But there are also going to be things we don't with
6 that we do not agree on.

7 Safety is the number one issue for our members,
8 it is for our workers, and it is for the communities that
9 surround our facilities. And we meet California demand
10 every single day 24/7 in the most efficient and the most --
11 under the most strictest environmental regulations that
12 there are, so just wanted to put that on the record as
13 well.

14 We look at this in sort of what we call the five
15 P's. So we've got production in the sense of crude oil.
16 We've got pipelines, ports, permits, and people. So that's
17 how we are thinking about these areas. And when we look at
18 policies that we don't think were included that perhaps
19 should be included crude, the production of crude oil is
20 one of them. It is very absent in this report. And
21 there's no serious treatment of the cost of displacing it
22 and finding it elsewhere to meet the demands that are
23 being, you know, projected here within the report.

24 The cost of import substitution is very
25 underestimated. It's about \$1.00 a barrel for domestic

1 crude, it's about \$5.00 a barrel for Alaska crude, and it's
2 about \$6.00 a barrel for foreign imports. That has to be
3 incorporated into it, regardless of how you feel about it
4 or where it's going. If we're going to be transparent we
5 need to look at that because those costs will be impactful
6 as we talk about where we go. And then that every impact,
7 every barrel of foreign crude adds, definitely, cents per
8 gallon at the pump. So we will be submitting information
9 on the details of that that has to be included.

10 There's also issues on the throughput limits at
11 marine terminals. So the throughput limits at marine
12 terminals will limit the amount of crude or product that
13 can come in. So if your assertion is to replace domestic
14 crude with imports, one has to look at, is that even
15 possible? Because that is still a large amount of
16 production that would have to be displaced if you were to
17 eliminate domestic production.

18 So we also want to just encourage more discussion
19 at the CARB at birth regs, because that intersection of
20 those regs and the ports is an important conversation here,
21 not saying or putting any judgment on the merit of the
22 regs, but there is an intersection of those regs on the
23 desire to do things at the port. So I think that's a
24 really good, again, ports, ports, ports, ships, ships,
25 ships, let's have the next conversation on that.

1 And I know you touched on it, but Arizona,
2 Nevada, obviously something to be careful about, 33 percent
3 of Arizona's fuel comes from California, 88 percent of
4 Nevada fuel comes from California as well. So I think
5 that's an area that, again, careful consideration on the
6 impacts to two states that do not have refiners and rely on
7 California.

8 Mike already tossed on the greater investment, so
9 I won't talk about that.

10 And then I think the other one just, again, put
11 on the table, any areas in cap and trade and low-carbon
12 fuel standard that we can improve those programs to impact
13 fuel supplies would be great, so that's an area of
14 interest. Those are great programs, area of interest.

15 And also just, again, any impact of delayed state
16 buildout of the electric grid relative to other
17 electrifications, like industrial heating and building
18 HVAC, just putting all that on the table in a very
19 transparent way so we can really map this out in a way we
20 can get from A to B.

21 MS. BERLINER: Thank you, Cathy.

22 So we only have about eight minutes left. And
23 I'm going to kind of throw everyone a curve ball because I
24 keep hearing about a policy surrounding safety, a policy
25 option surrounding safety. And I'm just, I'm really

1 curious what that option should look like.

2 Any hands raised or -- okay. Go ahead, Julia.

3 MS. MAY: I'll jump in.

4 Our refineries are inherently unsafe. Our
5 communities and our members who live around refineries in
6 Wilmington, Carson, and Richmond have faced explosions
7 continually. And flaring emissions despite regulation
8 recently have increased with smoking flares that add
9 particulate matter. We've kind of stagnated on our -- even
10 despite hard work on regulations to reduce emissions, this
11 energy source is inherently unsafe, despite the hard work
12 of the workers who try, who are at ground zero and working
13 really hard to operate the refineries safely. This is
14 inherently a carbon-based structure that makes fuels that
15 are inherently to be combusted and causing air pollution.

16 We are past the point of figuring out where we
17 should be dithering about phasing them out, so we know --
18 so what we would like you to add is an evaluation of safety
19 of fuels, and what that means is transition to zero-
20 emission fuels. And I want to mention it again, the South
21 Coast Air District found it will never meet smog standards
22 without something like a 67 percent reduction in NOx beyond
23 existing regulations by 2037. And they said they will not
24 be able to do that without a broad move to zero-emission
25 energy for both transportation and stationary sources. So

1 that essentially means we will not make smog standards ever
2 without a phase out of fossil fuels. That's what safety is
3 to us.

4 We understand that your staff has done an
5 excellent job and has your work cut out for you, but
6 there's a lot of existing materials that you could use to
7 frame safety on climate, safety on smog, safety in
8 communities who live near refineries. And we will
9 certainly comment on that in our comments.

10 Thanks.

11 MR. SMITH: Okay, so, I mean, I'm going to go
12 back to kind of the safety and the operation, I think it's
13 going to require investments, which will -- in order to see
14 that. But I think we need to have some more stability in
15 the California refining sector to actually incentivize the
16 employers to invest in modernization, invest in the better
17 technologies in order to do that. We see newer
18 technologies going out, you know, around in facilities
19 around the world. We're not seeing -- I won't -- I don't --
20 - it's not a scientific fact, but we're not seeing as many
21 here, I think, and it's due to the instability of the
22 refining sector here in the state because of the recent
23 closures and the, I think, the constant fear of which one's
24 going to be next.

25 So in order to run and operate safely, you need

1 the investments. In order for that, there needs to be
2 confidence that the facility is going to be running into
3 the future and ensure that. And we always, obviously,
4 think there's other paths as far as operating safely
5 California's process safety management regulation.

6 MS. REHEIS-BOYD: I would just say, any policy
7 option on safety, let's just make sure we're having that
8 conversation on every form of energy. This issue is
9 applicable to any form of energy that's being utilized in
10 any fashion. So if we're look at safety, and we'll put our
11 safety record up against anyone's, but if we look at that,
12 let's make sure we're looking at all forms of energy.

13 MS. BERLINER: Connie or Elena, do you guys want
14 to add anything?

15 MS. KRIEGER: Just that I think that this would
16 fit very neatly into a managed decline or sort of orderly
17 retirement conversation, right, which is one of the
18 components that should be considered as you're trying to
19 figure out, how do we retire specific units in a way that
20 is in line with the decline in demand? That should be
21 prioritized in a way that reflects a track record of
22 safety, as well as public health impacts both sort of
23 individually and, as I said, collectively from multiple
24 refineries in the same place on the communities around
25 them.

1 MS. BERLINER: Thank you.

2 MS. CHO: Yeah. When we say we wanted to do the
3 safety, have a policy around safety, the policy that I
4 described earlier that is public health protective and
5 really thinking about the cumulative and total pollution
6 burdens I think is a part of how you get to safety as a
7 predictable timeline, which also talks about predictable
8 timelines of, you know, turnarounds and maintenance and not
9 deferring maintenance, all of these, having predictable
10 trajectories creates that kind of certainty in refiners.

11 And this goes to like also why this kind of
12 public health protective policy as like a framework can be
13 helpful because we're trying to, you know, safeguard
14 against refiners with outsized market power making business
15 decisions without regard for our communities and to avoid
16 any unintended consequences of thinking about buttressing
17 supply here too; right? It's this balance of trying to get
18 to zero-emissions while also trying to make that
19 responsible and smooth out supply so it's less lumpy. But
20 the reality is that all of these things have to be
21 considered together.

22 So, you know, we'd just reiterate that just
23 because, you know, the emissions are coming from a barrel
24 of carbide doesn't mean that we should disregard it. All
25 of these production elements are important.

1 MS. BERLINER: Thank you.

2 I want to pass it to the dais if there are any
3 questions or comments on either the presentation or for our
4 panelists.

5 EXECUTIVE DIRECTOR BOHAN: Certainly thanks,
6 Aria, and thanks to the panel for that feedback we got,
7 both here in the room and online. Vice Chair Gunda has
8 stepped out, as he suggested he would earlier. We expect
9 him back in about an hour.

10 In the meantime, let's get questions from the
11 dais. I'm going to go to one of my other bosses,
12 Commissioner Monahan, and see if she has any questions.
13 We'll just kind of go around the room.

14 COMMISSIONER MONAHAN: Well, I actually had a
15 question for Quentin, but I really appreciated this panel
16 discussion. It was really helpful and illuminating and
17 just gave me a lot of good food for thought. So thanks to
18 the panel for all your input into this process.

19 I'm curious, Quentin, on this strategy around
20 storage. Can you talk more about like the challenges, the
21 cons side? You talked about rotation of fuel for RVP
22 purposes. I'm just curious, like how long can we store
23 CARBOB in, or does it have to be sort of pre-CARBOB? Like
24 what can we do in the storage side that -- I don't know,
25 how long can we store it, basically?

1 MR. GEE: Yeah, great. Thanks, Commissioner
2 Monahan. Good question. There's a few things that we can
3 do on the storage side.

4 I guess what I would say is one option is for us
5 to think about sort of mandatory minimum storage levels for
6 folks that already do store gasoline, or maybe even certain
7 blendstock that could allow us to rapidly, well, not gas,
8 but blend stock to rapidly create more CARBOB stock or
9 require minimum CARBOB stocks. So that would basically
10 mean that, you know, maybe they're used to operating at,
11 say, 50 percent of storage and instead you say, no, you've
12 got to go and stay at 80. And then if there's a price
13 spike, we say, okay, well, you know, now you can release,
14 you can go down as low as you want for a certain period of
15 time. And that might encourage them to release more
16 product onto the market.

17 Other options would be sort of taking -- you
18 know, as a refinery, if a refinery were to shut down, you
19 know, that refinery is well-suited to distribution access
20 points and, you know, we might be able to lease that
21 storage.

22 And then the other option would be that you could
23 build new storage. And in the options where we're building
24 new storage or where we're using storage that would
25 otherwise be shutting down, we're looking at a situation

1 where you do have to keep a continuous flow because you
2 can't just set it in there and forget it until you need it
3 later on. So you do need a sort of an inflow and outflow.

4 But, yeah, there are different approaches on how
5 it could be implemented, but those are the three basic ones
6 that we're looking at.

7 COMMISSIONER MONAHAN: Can you give a sense of
8 how long you could store it without having to move it, or
9 is it, when you say continuous, is it like from the second
10 it gets into the storage tank, you still have to have some
11 kind of flow?

12 MR. GEE: Yeah. So, yeah, we actually took a
13 look, the CEC, I didn't, but the CEC looked at this way
14 back in 2002. And, yeah, I think the idea was you could
15 probably go for a few months, but you need to have a little
16 bit of an inflow-outflow. And so if, let's say if you've
17 got a storage tank that's holding, you know, whatever,
18 5,000 barrels or something like that, you would need to
19 have that flow in, and then there needs to be a reliable
20 flow out. But it wouldn't need to necessarily -- like you
21 could let it sit for a while if you needed to. But there
22 does need to be some kind of schedule for it to be released
23 back into the fuel supply.

24 COMMISSIONER MONAHAN: And just one last
25 question, then I'll pass it off is, is it true that in

1 general, and maybe we don't always, but in general, our
2 price spikes are in the summer, so we're talking about
3 storage for probably like three to four months on average?

4 MR. GEE: Yeah.

5 COMMISSIONER MONAHAN: Okay.

6 MR. GEE: Yeah. Yeah, I think, I mean, yeah, you
7 would need to, you would need. That's the time when
8 probably storage would be like a critical point. So, yeah,
9 if there were some kind of storage minimum requirement,
10 then you might want to maybe have that activated, you know,
11 for a certain time period. If it were where we were using
12 a certain amount of storage, it might be that maybe it's
13 not at its full capacity during other times of the year,
14 but you kind of build up in anticipation of high-risk
15 periods. But you probably also want to keep a fairly
16 reliable amount because prices can spike for a lot of other
17 reasons.

18 I think one of the things we're really focused on
19 in the report is prices that spike as a result of some kind
20 of California-specific reason, like, for example, a
21 refinery, unanticipated refinery shutdown, whereas, you
22 know, if we're talking about, you know, the Russian
23 invasion of Ukraine and prices spiked then, that had more
24 to do with the crude situation as opposed to any refinery
25 issue.

1 EXECUTIVE DIRECTOR BOHAN: Great. Thank you,
2 Commissioner Monahan.

3 And I'll shift to my staff hat just for one
4 second to say, I think another answer to your question is
5 it depends. There's different use cases that would call
6 for different amounts of storage, different volumes you'd
7 need in storage to address those. If it's a short-term
8 spike, it's a smaller volume. If it's something to manage
9 prices over a longer period of time, it might be larger.

10 And I'll put my dais hat back on and hand it off
11 to Chair Randolph and see if she has any questions.

12 CHAIR RANDOLPH: Yeah, I have two questions. One
13 is a factual question and one is an options question.

14 The factual question, and this relates to
15 something that Cathy was saying about the different costs
16 of importing crude -- on slide nine there was sort of
17 showing imports from other countries, imports from Alaska -
18 - or crude from other countries, crude from Alaska, but
19 there wasn't any lines for crude from other states in the
20 continental U.S. And so I was just curious why those were
21 not included, and if -- and, you know, I guess maybe kind
22 of digging a little deeper into to the question of cost
23 differentials, is it -- I assume the \$1.00 that Cathy
24 mentioned was Texas, Oklahoma, North Dakota; is that
25 correct? And it sounds like there was like a \$5.00

1 difference between Alaska and domestic. So I just wanted
2 to clarify that.

3 MS. REHEIS-BOYD: Yeah, really it was California.
4 Thank you, Chair Randolph. It was basically California,
5 Alaska, and foreign -- were those price differentials,
6 mostly on transportation. So, obviously, our refiners
7 prefer California domestic crude. And, obviously, the
8 logistic costs of Alaska and foreign sources are much
9 greater. So what you see there is that is the picture of
10 where crude imports come into California.

11 And I would say the one thing that I would ask
12 the Air Resources Board to consider is in their current
13 Scoping Plan there is an estimate of a one to two percent
14 decline in production. We are at 15 percent decline, not
15 because the reserves are not in California. We are blessed
16 with reserves in California. The fact is we are not
17 getting permits to develop them. So the picture could be
18 very different if we were allowed to actually get permits
19 for drilling in California.

20 And I do think if we're going to look at the
21 scenario that CARB has put out there, we should run it at a
22 15 percent decline because those are CalGEM's current
23 numbers, and it is certainly not 1 percent to 2 percent,
24 which could change assumptions, forecasts, outcomes, pace,
25 scale, all those things.

1 CHAIR RANDOLPH: Okay. And then sort of follow
2 up to that question on the slide, are we seeing the same
3 downward trends from Texas, Oklahoma, North Dakota? This
4 is for CEC staff.

5 MS. REHEIS-BOYD: Oh, you're asking do they have
6 a, oh, a slide on what the percentage of different crudes
7 in different parts of the U.S.?

8 CHAIR RANDOLPH: Yeah. So I was just asking
9 because the slide shows that the long-term trends are
10 downward and I just wasn't sure if that was?

11 MS. REHEIS-BOYD: Well, the one that's not
12 downward is --

13 CHAIR RANDOLPH: I just don't know. I can't tell
14 if the domestic --

15 MS. REHEIS-BOYD: Yeah, right. Gotcha. I think
16 it's, you know, I think you would benefit from a slide like
17 that. The one on this slide that is not really declining
18 is foreign imports. Alaska is declining. California is
19 declining, again, not because we don't have it. We just
20 can't produce it because we can't get permits. And so the
21 one that will increase is foreign imports.

22 CHAIR RANDOLPH: Okay.

23 MS. BERLINER: Chair, this is Aria Berliner. I
24 also do want to add we are asking staff to get that answer
25 and if -- hopefully we'll have it soon, but if not, I will

1 send you an email with that answer.

2 But I also want to note that California
3 refineries tend to use a heavier crude oil than what then
4 say other states or other refineries use. So California
5 and Alaska crude tend to be what they call a little bit
6 more sour than sweet, and so I think that's partially why
7 we are relying on imports from Alaska, as well as using our
8 own in-state crude, even though we're reducing it.

9 CHAIR RANDOLPH: Okay. All right, the policy
10 question relates to the option for kind of the heavy
11 regulatory option. And one question I had was sort of the
12 regulatory light option, which would be, you know -- so
13 this question is in two parts. One, how much are price
14 spikes related to unplanned outages? And I think Cathy
15 referred to that. And if that is a significant factor in
16 price spikes, is there discussion of a regulatory scheme
17 related to maintenance and managing when refineries are
18 closed for maintenance more directly? And that's a
19 question for CEC staff.

20 MR. GEE: Yeah, thank you, Chair Randolph.

21 Yeah, so to answer your question on that point,
22 we -- I think what we could say is that one of the factors
23 that does contribute -- it's not necessarily just one
24 particular, like an instantaneous refinery outage. One of
25 the narratives in the 2022 price spike was actually that it

1 was extended maintenance periods for several refineries
2 that kind of impacted onto each other. So, I mean, you're
3 right in the sense that the refineries may not be
4 operating, but it's always necessarily an accident so much
5 as maybe a delay in standard refining maintenance. So that
6 was one thing that contributed to it.

7 And, you know, we are thinking a little bit more.
8 And one of the parts, one of the reporting that goes on,
9 one of the reporting requirements in SB X1-2 is going to
10 involve or it does involve the requirement to be a little
11 bit -- be more transparent with the CEC about what refinery
12 maintenance schedules are like. And that's an opportunity
13 for us to understand this dynamic a little bit better.

14 Another challenge that we didn't quite get into
15 in detail here in the presentation today, but we do think
16 is critical and is the core activity of the Division of
17 Petroleum Market Oversight, which was also created under SB
18 X1-2, And that is spot markets and the kinds of activities
19 that can go on there.

20 As noted in the report, and I'm sure as the
21 Director of the Division of Petroleum Market Oversight
22 would say, the spot market is a pretty opaque market, and
23 the reporting that goes on there is not the most robust in
24 terms of a lot of data points and a lot of known behavior.
25 There's things that occur off the spot market and then

1 transactions that occur off the spot market. And then on
2 top of that, spot market reporting is pretty much
3 voluntary. And we've seen some kind of strange behavior
4 there.

5 So there are some issues, definitely, within the
6 sort of the way that the refineries operate and the
7 schedules that work there, but also there are some issues
8 where we are concerned, also, about the market itself, the
9 reported market activity itself not always being the most
10 solid to inform all participants about what's going on.

11 CHAIR RANDOLPH: So it sounds like there's
12 opportunities to get more data around planned maintenance,
13 more understanding of options there, as well as thinking
14 about strategies around the spot market?

15 MR. GEE: Yes. Yes.

16 CHAIR RANDOLPH: Okay. Great. Thank you.

17 MR. GEE: I also did want to follow up real quick
18 on your previous question. I just got word. We did get
19 600, just a few, some barrels of oil from North Dakota in
20 2023. But sort of on that import note, it's a little bit
21 trickier to get. It's easy to get stuff from Alaska. It's
22 a little bit harder to get stuff from the East Coast.
23 You've got to either by rail, which is not a very common
24 one, or by ships. And there's some issues around that with
25 the Jones Act and other sorts of things like that, so it

1 can be kind of tricky.

2 EXECUTIVE DIRECTOR BOHAN: Chair Randolph, I'd
3 just add one thing, which is another part of SB 2, not the
4 subject of what we're talking about today, is a grant of
5 authority to the Energy Commission to regulate the timing
6 of those maintenance events. So if there were a number of
7 them, let's say, scheduled at the same time during the
8 summer at a time when the supply may be quite low, we're
9 given the authority to take a look at that and make case-
10 by-case decisions. We're just exploring that as we speak.

11 CHAIR RANDOLPH: Okay. Thank you.

12 EXECUTIVE DIRECTOR BOHAN: Anything else, Chair
13 Reynolds?

14 CHAIR RANDOLPH: Those were my questions.

15 EXECUTIVE DIRECTOR BOHAN: Okay. Great.

16 Let me move to Deputy Secretary Izant, questions
17 or comments?

18 DEPUTY SECRETARY IZANT: Well, just an
19 appreciation for the presentation and for the panel. I
20 think helpful to hear the discussion about the feedback on
21 the various options.

22 Maybe one question. Just I know that there a
23 mention of sort of the next steps being about, you know,
24 prioritizing the recommendations from the Assessment, and I
25 wanted to make sure I understood sort of what that process

1 looks like moving forward from here.

2 MR. GEE: Great. Thank you for your question
3 there. Currently, we have a lot to sort of continue to
4 coordinate on with the Air Resources Board and the Division
5 of Petroleum Market Oversight. I would note that, you
6 know, DPMO, or the Division of Petroleum Market Oversight,
7 they are taking a deep dive into a lot of activity at this
8 point, and we're trying to get more information there.

9 But in terms of some of the other policies, I
10 think it's going to require some continued conversations,
11 and also, I think, getting feedback from stakeholders and
12 folks on the dais today that will help give us a little bit
13 more guidance on how to pursue further work on the policy
14 options. But, yeah, sorry we can't give a whole lot more
15 precision on that, but it's a continuing conversation at
16 this point.

17 DEPUTY SECRETARY IZANT: Thank you.

18 EXECUTIVE DIRECTOR BOHAN: Great. Let me hand it
19 off to Deputy Secretary Nguyen.

20 DEPUTY SECRETARY NGUYEN: Thanks, Drew. No
21 questions. My only question is on the next steps, as well,
22 but it sounds like we'll get more information in the next
23 few weeks.

24 EXECUTIVE DIRECTOR BOHAN: Great.

25 I will close this out with just one question for

1 Cathy. You look like you're going to speak, though.

2 MS. REHEIS-BOYD: I was but --

3 EXECUTIVE DIRECTOR BOHAN: Well, how about I ask
4 you the question, and you can lead it if you want.

5 MS. REHEIS-BOYD: Okay.

6 EXECUTIVE DIRECTOR BOHAN: I was wondering if you
7 had a reaction you care to share about the part of the
8 report that was discussed today and some of your colleagues
9 on the panel mentioned, and that was this idea of some sort
10 of utility model of regulation for the industry?

11 Obviously, this is something that, even assuming it were
12 decided was a good idea, would take quite some time to
13 implement. But do you have a reaction you'd care to share?

14 MS. REHEIS-BOYD: You must have been reading my
15 mind because the two that we didn't get to, obviously,
16 depended on time, was the one question on long-term
17 impacts. And two things fall into that area to be cautious
18 about as you investigate them further, and one is a state-
19 owned refinery. As we look at instances across the world
20 where this was tried by governments running refineries it
21 typically resulted in three things, higher operating costs,
22 lower reliability, and poor safety records. So that's one
23 of the options you had listed.

24 The other one was the cost of service model, so
25 turning the California fuel markets into a regulated

1 utility, basically. And some of the things, obviously,
2 that would come to mind, would price at the pump be subject
3 to CPUC rate making cases, as an example? What part of, in
4 that model, what part of the value chain would actually be
5 included? How would the state under that model regulate
6 other market participants, like importers and traders and
7 out-of-state refiners? Certainly there's no precedent
8 under U.S. law relative to this option.

9 So I just think it's one to be cautious about.
10 It's one to make sure you don't end up further isolating
11 the state from the rest of the U.S. and the world relative
12 to fuel markets.

13 EXECUTIVE DIRECTOR BOHAN: Thank you.

14 I think that's it for questions and comments from
15 the dais at this part of our program.

16 Aleecia, are you going to take us to the next
17 part?

18 MS. BERLINER: So I just want to -- thank you,
19 Drew.

20 I just want to say that I just want to express my
21 gratitude for the panel for joining me today. We've had
22 people pretty much come from across the country today to
23 join us, so I just want to say thank you. And thank you to
24 our remote participants as well.

25 With that, we're going to open it up for public

1 comment.

2 MR. SAMUELSON: Thank you.

3 Now we'll move on to public comment period. As a
4 reminder, one person per organization may comment, and
5 comments are limited to three minutes per speaker. For in-
6 person comments, please line up at the podium.

7 Do we have anyone in person that would make a
8 comment?

9 MR. KOEHLER: Oh, sorry. Neil Koehler with the
10 Renewable Fuels Association. We represent ethanol
11 producers in the United States, and we really appreciate
12 this work that's being done on fuel assessment.

13 Supply is critical. Supply of clean fuels is
14 even more critical as we make this transition. And the
15 low-carbon fuel standard that Liane mentioned at the
16 beginning has been incredibly successful in bringing new
17 fuels to the market.

18 I'd like to draw attention and support
19 specifically in the Chapter 5 on production enhancement
20 strategies. The number one listed strategy in that section
21 was E15, which is a 15 percent ethanol blend. Today,
22 California only allows up to ten percent. The EPA approved
23 E15 back in 2011. Every state, other than California,
24 actually has certified the use of E15. It not only gives
25 you that obvious increase of five percent supply, but it

1 lowers emissions. We worked together with the California
2 Air Resources Board and finished a study that showed not
3 only the obvious reduction in greenhouse gases, but
4 significant reductions in most all pollutants, and really,
5 an eye-popping just going from 10 percent to 15 percent, an
6 18 percent statistically significant reduction in
7 particulate emissions. So really bringing not only lower
8 cost, up to 25 cents a gallon where E15 is used in other
9 states, but lower criteria emissions as well as greenhouse
10 gas.

11 The infrastructure exists today. We have the ten
12 percent. There was questions in the report about that
13 infrastructure, and it's there because it's commingled with
14 the gasoline system. So as you bring in more ethanol into
15 the system, you move tanks from gasoline into ethanol. So
16 it's the infrastructure, whether it's rail, whether it's
17 marine, whether it's the trucks and the pipes, it exists.

18 So it is the nearest-term opportunity we have
19 today to increase the supply of a low-carbon and clean
20 burning fuel that brings affordability to California
21 consumers. And all it takes is the Air Resources Board
22 certifying its use and would encourage that to happen, that
23 rulemaking happen, almost immediately because I can't think
24 of a quicker way to bring incremental supply of one of the
25 lowest carbon fuels in the marketplace.

1 Thank you.

2 MR. SAMUELSON: Thank you. Was there anyone else
3 in person? Looks like there's no one else in person.

4 We'll move on to the Zoom platform. For those
5 using the raise-hand feature, I will call you out your name
6 to let you know you're able to ask your -- or make your
7 comments. Please state and spell your name and your
8 affiliation for the record after you're unmuted.

9 Start off with Dallas Gerber. Your line is open.

10 MR. GERBER: Thank you. Dallas Gerber,
11 D-A-L-L-A-S G-E-R-B-E-R, Director of State Government
12 Affairs with Growth Energy. We are the nation's largest
13 association of biofuels producers. We represent 97 biofuel
14 producers who collectively produce more than 9.5 billion
15 gallons of clean or burning renewable fuel annually and 117
16 businesses associated with the production process.

17 I'd like to appreciate the CEC's and CARB's
18 consideration of E15's use in the draft Assessment for
19 California. Approval of E15 will bring an affordable and
20 environmentally beneficial option to the pump for
21 California drivers. It's a fuel that can be used in more
22 than 96 percent of legacy vehicles on the road today and
23 consistently saves drivers \$0.10 to \$0.30 per gallon.

24 As far as infrastructure, any adjustments
25 refiners may have to make for E15 are far outweighed by the

1 lower cost of ethanol relative to gasoline. As Mr. Koehler
2 said, California is the sole remaining state that has yet
3 to approve E15, but it is ready for the fuel. Existing
4 California UST database shows that a significant percentage
5 of tanks are already compatible for use with E15, and the
6 vast majority of tanks built UL certified and installed in
7 1989 or later in the state are compatible with E15 storage.

8 And updating the retail level infrastructure is
9 as simple as base model dispensers for the two largest
10 manufacturers, which represent about 98 percent of the
11 industry is at least E15 compatible. All Wayne dispensers
12 and all fuel barcode dispensers since 2008 are compatible
13 for E15 and some even higher. And most, if not all, of the
14 midstream infrastructure bringing E10 and E85 to California
15 is similarly capable of carrying E15.

16 So to echo what Mr. Koehler said, industry groups
17 have submitted their tier three report to the Multimedia
18 Working Group. And, obviously, we're currently in the
19 middle of the process and we stand ready to assist to
20 complete that process.

21 Research conducted for that report shows clear
22 benefits to air quality through E15. The use of more
23 bioethanol and bioethanol-blended fuels shows significant
24 reductions in carbon monoxide, harmful particulates, and
25 air toxics, on top of the nearly 50 percent reduction in

1 GHGs with ethanol compared to gasoline.

2 I'd like to close out by saying E15 can be a
3 vital contributor to achieving GHG reductions, a simple
4 switch from E10 to E15 statewide. So if E15 replaced E10
5 statewide, it would reduce greenhouse gas emissions by 1.8
6 million tons annually. This is the emissions reduction
7 equivalent of taking more than 40,000 cars off the road
8 each year. And that does not -- it would not impact a
9 single driver while also providing a more affordable fuel
10 for California drivers.

11 So thank you for your time and appreciate your
12 consideration.

13 MR. SAMUELSON: Thank you.

14 Amelia Keyes, your line is open.

15 MS. KEYES: Hi, Amelia Keyes, A-M-E-L-I-A
16 K-E-Y-E-S. I'm an attorney with Communities for a Better
17 Environment's Nor Cal Program.

18 I want to express appreciation, first of all, for
19 the CEC's thoughtful engagement and Assessment process. My
20 comment focuses on some of the elements that should be
21 added to the Assessment, reinforcing some points from the
22 previous panel.

23 So the SB X1-2 statutory language tells CEC to,
24 quote, "identify methods to ensure a reliable supply of
25 affordable and safe transportation fuels in California."

1 Under this language, safe is just as important as
2 affordable. So we encourage you to dig much deeper into
3 how to achieve a safe supply of transportation fuels.
4 Understanding that this Assessment takes a big effort and
5 appreciating your thoughtful work on it already, we think
6 safety is a big gap in the draft report.

7 I also want to emphasize that safety does not
8 exclusively mean safer equipment at refineries. It also
9 means addressing the inherent safety dangers of refining
10 and combustion fuels. A recent report commissioned by the
11 CPUC found that switching from fossil fuels to electric on-
12 road transportation in California would avoid 2,265
13 premature deaths per year. And this combustion fuel death
14 toll doesn't even account for the danger inflicted on
15 communities from oil refining, from the major explosions
16 and leaks to the everyday pollution that inflicts cancer,
17 respiratory diseases, reproductive harms, and many other
18 safety risks on our communities.

19 These problems are not getting resolved despite
20 our current protections. For example, the Richmond Chevron
21 refinery has had hundreds of violations of air quality
22 standards in recent years.

23 Because these expansive safety issues are a
24 critical aspect of SB X1-2, the Assessment should: one,
25 discuss the impacts of the gasoline supply chain on safety

1 in California; two, evaluate each identified policy option
2 based on its potential impact on safety; and three, as
3 panelists have said already, the Assessment should add a
4 policy option that explicitly prioritizes safety. This
5 option should require and ensure the phase-down of oil
6 refinery emissions as we move through the fossil fuel
7 transition.

8 Thank you.

9 MR. SAMUELSON: Thank you.

10 Next is the Wilmington team. Your line is open.

11 MS. RIVERA: Can you hear me?

12 MR. SAMUELSON: Yes.

13 MS. RIVERA: Can you? Can you hear me?

14 MR. SAMUELSON: Yes, I can hear you.

15 MS. RIVERA: Yes, my name is Alicia Rivera. I'm
16 a community organizer with Communities for a Better
17 Environment. I'm a community organizer at the -- where
18 there are so many refineries in Wilmington, and I
19 appreciate the opportunity to give my comment.

20 Wilmington has the highest concentration of oil
21 refineries in California, and we know that our community
22 members in Richmond and other refinery neighborhoods, such
23 as Wilmington, statewide, really suffer from refinery
24 pollution too, and suffer from gasoline price doubling at
25 the same time.

1 Many of you already know how bad the pollution is
2 in oil refinery neighborhoods, with regular explosions,
3 actual crude oil spills right on residential streets,
4 frequent episodes of smoking flares, that's pretty much on
5 a daily basis, including those that wake up our members in
6 the middle of the night with smells and bright lights. One
7 member thought her house was on fire, the flaring was so
8 bright that it permeated through her wall. These are
9 Black, Brown, Latino, Asian, indigenous communities of
10 color suffering badly. But the same thing that will help
11 EJ communities is also good for everyone in the state.

12 Oil refineries, as we know, are inherently
13 dangerous. They cannot make clean energy, even though we
14 have worked for decades on regulations to reduce the harm.
15 Our members are low-income, and they really need you to set
16 penalties for the oil refineries to keep the industry from
17 causing gasoline price spikes. This is very important.

18 We do not want the fear-mongering that the oil
19 industry always orchestrates to stop regulations of prices
20 and pollution. You need to regulate oil refineries and
21 penalize them to stop price gouging to reduce gas prices.
22 This will help low-income communities throughout the state
23 and help everyone, including small businesses.

24 In the meantime, we need the Fuel Assessment
25 Report to add an evaluation of safety of fuel, which is

1 missing and required. Oil refineries are not safe to live
2 next to or to work in.

3 The gasoline and diesel that oil refineries make
4 are not safe fuels to use either. They cause California to
5 have the worst smog in the nation and cause climate change.
6 The future of climate change is so bad that we might not
7 survive. We need to begin the gradual phase-out of fossil
8 fuels, including oil refineries.

9 During heat waves, people in Wilmington really
10 suffer. It makes the smoke worse too. The wildfire smoke
11 is terrible and many people have asthma. We need you to
12 begin evaluating how to phase out oil refineries while we
13 introduce zero-emission transportation choices, including
14 EVs and public transit, making them much more accessible to
15 everyone. This takes planning, gradual phase out of oil
16 refineries.

17 Thank you very much.

18 MR. SAMUELSON: Thank you.

19 Woody Hastings, you are available to ask your
20 comments.

21 MR. HASTINGS: Great. Can you hear me? Can you
22 hear me?

23 MR. SAMUELSON: Yes, we can hear you.

24 MR. HASTINGS: Great. Thank you so much.

25 Good afternoon, my name is Woody Hastings,

1 W-O-O-D-Y H-A-S-T-I-N-G-S. I'm with the Climate Center.
2 The Climate Center is a statewide nonprofit working to
3 reduce greenhouse gas emissions everywhere, starting in
4 California.

5 First, I also want to thank the agencies and
6 Energy Commission staff for the great start on the
7 Transportation Fuels Assessment. This is important,
8 complex, and much-needed work. The Climate Center sees SB
9 X1-2 and this work as a way to escape the gasoline trap of
10 price gouging, hazards to the fence-line communities, and
11 climate disaster. The refineries and the oil industry in
12 general are not going to do this voluntarily.

13 I want to generally align my comments with those
14 of Julia May and Connie Cho. To meet state climate and
15 health goals and identify the means to transition to a safe
16 transportation system, we agree with the statements from
17 Julia, Connie, and others not only supporting reducing
18 demand through zero-emission vehicles and public transit,
19 but also to fix the policy gap on supply through explicit
20 refinery phase-out recognition, in short, a labor-friendly,
21 equity-centered, managed decline and transition away from
22 fossil fuels.

23 One of the Climate Center's guiding principles is
24 environmental justice, and so we agree on the points that
25 were brought up that there should be an added safety

1 Assessment, which was required under SB X1-2. And so we
2 all are well aware of decades of experience that
3 refineries, communities that have refineries, are not safe.
4 Neither are those communities safe from the impacts of the
5 use of fossil fuels in these transportations from the smog
6 and the toxics due to that combustion of gasoline and
7 diesel. And then the ultimate climate impacts.

8 So I think that is most of what I wanted to say.
9 Thank you very much for the opportunity to comment.

10 MR. SAMUELSON: Stephen Rosenblum.

11 MR. ROSENBLUM: Good afternoon. Thank you very
12 much to the staff of CEC, Dr. Gee for the excellent
13 presentation of what the options might be to have a well-
14 managed transition away from fossil fuels.

15 I'd like to mention two of the things that I
16 think -- oh, I'm sorry, I didn't spell my name, S-T-E-P-H-
17 E-N, R-O-S-E-N-B-L-U-M. I represent Climate Action
18 California, environmental organization fighting climate
19 change in the state of California.

20 So two of the options that made sense to me, the
21 first was to switch to a public utility model for a
22 refinery industry. I think that accomplishes several goals
23 at the same time.

24 At the first, it controls prices and allows the
25 regulation of safety. So this is really important, as

1 we've heard from other speakers, that refineries are
2 dealing with explosive and volatile chemicals all the time.
3 They're subject to upsets, flares, explosions. And the
4 workers there, just recently, a worker lost his life at one
5 of the refineries in the Bay Area due to an explosion
6 during a maintenance operation. So I think we need better
7 regulations.

8 The second thing is that the refineries generate
9 billions of dollars in profits now. And a lot of that
10 could be used to finance the just transition that's so
11 necessary that was pointed out by Mike. Those workers have
12 worked for years of their lives in well-paying jobs and
13 doing important work for our country, but we need to make
14 sure that they have a clear path to a future with training
15 and benefits. And the refinery should finance that.
16 They've benefited from the labor of these people for
17 decades and they should help them to the next phase. As we
18 know, we need to phase out fossil fuels and they need to be
19 part of the solution and not part of the problem.

20 So the second point I'd like to make is about
21 public transit. I think that was mentioned by Connie, and
22 also mentioned in the presentation, but not really given a
23 lot of weight. Public transit is really a critical
24 solution that needs to be addressed, and it needs to be
25 addressed with ZEVs, not only buses and trains that emit no

1 pollutants, but also new modes of transportation, such as
2 shared vans that are on call, offering sort of quasi point-
3 to-point on-demand service for communities that are more
4 spread out, like in the L.A. area, which can't be really
5 well covered by a traditional fixed-route bus system. So
6 that would not only reduce pollution, but it would also
7 reduce congestion, which is, you know, reducing vehicle
8 miles traveled, so it's a win-win situation. So I think
9 public transit using zero-emission vehicles has to be a
10 critical part of the transition away from fossil fuels.

11 Thank you.

12 MR. SAMUELSON: Julia Levin, your line is open.

13 MS. LEVIN: Good afternoon, Julia Levin,
14 J-U-L-I-A L-E-V-I-N with the Bioenergy Association of
15 California. Thank you for this incredibly important
16 workshop and all of the work of the various agencies staff.

17 Can you hear me?

18 MR. SAMUELSON: Yes, we can hear you.

19 MS. LEVIN: Okay, sorry. The speaker on your end
20 is super faint now.

21 So I have three points I'd like to make. The
22 first is in response to the CEC's presentation earlier.
23 There was a lot of focus on moving away from petroleum,
24 which we strongly endorse and hope can be accelerated. But
25 there was very little -- and a lot of discussion about

1 electrification, but very little discussion, in fact, I'm
2 not sure I ever heard the word hydrogen mentioned. And
3 this seems like a really important fuel for the future to
4 replace fossil fuels, especially in heavy duty vehicles,
5 long haul trucks, airplanes potentially, and rail. So I'm
6 hoping that in the modeling, in the transition strategy,
7 hydrogen plays a much larger role. And within the category
8 of hydrogen, how we will transition to renewable and very
9 low carbon hydrogen as well.

10 And on the jobs front, hydrogen also has a really
11 important role to play. My understanding from workers in
12 the petroleum industry, the refineries, is their skills are
13 not easily transferable to electric work, but they are very
14 easily transferable to hydrogen. It's a lot of the same
15 skills, a lot of the same trades, pipefitters and others,
16 and so that makes for a much smoother work transition as
17 well.

18 The second point I wanted to make is about
19 imports. Again, there was a lot of discussion about
20 imports and exports of petroleum products, very little
21 about what we're doing with the alternatives. And I say
22 that because the RPS does require delivery of electricity,
23 and therefore electricity under the low-carbon fuel
24 standard, it must also be delivered.

25 But biomethane and hydrogen have no delivery

1 requirement. And what that means is we're actually using
2 fossil fuels in California, while California drivers are
3 paying for the carbon reductions that are actually being
4 achieved in other parts of the country. And this isn't
5 just about carbon reductions. It's about converting
6 organic waste to more beneficial end uses. It's about
7 reducing wildfires. It's about reducing landfill waste and
8 things like that. So I think it's really important as part
9 of the transition to much cleaner, lower-carbon fuels that
10 we also require those fuels that Californians are paying
11 for to be delivered to California.

12 (Clears throat.) Excuse me.

13 My last point is on the safety issue, which a
14 number of people have mentioned. And I want to say, as
15 someone who lives in Contra Costa County, in sight of the
16 Richmond refinery, I totally support all of the comments
17 urging the agencies to shut down the refineries as quickly
18 as possible, because they are huge safety risks.

19 At the same time, we have to look realistically
20 at all the alternatives. Electricity is actually far more
21 dangerous. It is causing far more deaths, both directly
22 from the wildfires that electricity causes, as well as the
23 air pollution from those fires. We know from CAL FIRE that
24 electricity infrastructure and operations caused the
25 majority of California's catastrophic fires.

1 So we need to look at the safety of all of the
2 alternatives, not just refineries. And we need to consider
3 them objectively.

4 Thank you.

5 MR. SAMUELSON: For our last comment before
6 break, Jeff Wilkerson. Your line is open.

7 MR. WILKERSON: Thank you. Jeff Wilkerson,
8 J-E-F-F W-I-L-K-E-R-S-O-N, on behalf of Pearson Fuels,
9 based in San Diego. Thank you for the opportunity to
10 comment today.

11 I want to quickly highlight how the Energy
12 Commission could help ease petroleum demand by utilizing
13 clean transportation program funding for engine conversion
14 technology to allow conventional ICE vehicles to instead
15 run on 100 percent renewable fuel.

16 For background, Pearson Fuels is the largest E85
17 distributor in the state. We work with more than 370
18 retail gas station partners to offer E85 across California.
19 E85 has historically consisted of 85 percent ethanol and 15
20 percent gasoline and been used in flex-fuel vehicles.
21 However, more than a third of our E85 supplied to the
22 market is now composed of ethanol and renewable naphtha
23 instead of gasoline. This E85 allows us to dramatically
24 reduce petroleum consumption in the light-duty fleet and is
25 typically available to drivers for \$1.50 to \$2.00 per

1 gallon below California gasoline with up to 80 percent
2 fewer lifecycle emissions.

3 The station network for E85 is growing rapidly.
4 We anticipate the state will add at least 75 new sites in
5 2024, these stations will be in both high population areas
6 and more rural regions where E85 has never been available,
7 specifically to those CEC says may be most impacted by
8 future gasoline price spikes.

9 As CEC notes, ICE vehicles will remain in the
10 state's fleet for decades, but technology exists to
11 mitigate the equity and emissions impacts of those
12 vehicles. We urge CEC to use Clean Transportation Program
13 funding to bring E85 conversion kit technology to the
14 market in California by supporting testing efforts and
15 installations.

16 This technology is already widely available in
17 France where the government has incentivized its use. The
18 kits can be utilized at very reasonable costs to allow
19 consumers to choose something other than gasoline, even if
20 they aren't immediately able to purchase an EV. Absent
21 this innovation, these cars and trucks will continue to use
22 petroleum with prices subject to wild price swings and
23 spikes.

24 Thank you.

25 MR. SAMUELSON: Thank you, everyone, for their

1 public comments.

2 I also wanted to mention that we welcome written
3 comments, and those comments are due by May 17th by 5:00
4 p.m. Instructions on how to provide written comments are
5 included in the notice for this workshop as posted on the
6 CEC's website.

7 We'll be taking a five-minute break at this time.

8 EXECUTIVE DIRECTOR BOHAN: Let me just thank,
9 once again, our panelists for helping elucidate this
10 conversation.

11 (Off the record at 3:49 p.m.)

12 (On the record at 3:55 p.m.)

13 MS. KOZAWA: Welcome back. Thanks for sticking
14 with us on this Friday afternoon. My name is Kathleen
15 Kozawa from the California Air Resources Board, and I'll be
16 kind of shepherding us through the transportation
17 Transition Plan portion of this workshop.

18 So to begin, let's just dive right into it. I'm
19 going to introduce Quinn Langfitt, who will be providing
20 the presentation.

21 MR. LANGFITT: All right. Thanks, Kathleen.

22 All right. Good afternoon, everybody. I'm Quinn
23 Langfitt from the California Air Resources Board. Kathleen
24 mentioned we're kicking off the process to develop our
25 Transition Fuels Transition Plan. And, again, that's also

1 called for in SB X1-2. And this plan is actually a joint
2 effort between CARB and CEC.

3 Next slide, please.

4 Every five years, CARB develops a Scoping Plan,
5 which lays out the sector-by-sector roadmap for California
6 to meet our climate targets. The most recent update was
7 completed in 2022, and the 2022 Scoping Plan update set a
8 path to achieve carbon neutrality by 2045 or earlier by
9 outlining a technologically feasible, cost-effective, and
10 equity-focused plan.

11 The Scoping Plan scenario shows a rapid uptake of
12 zero-emission vehicles over the coming decades, which in
13 turn reduces the demand for gasoline. Scoping Plan
14 scenario envisions reduced in-state fuel production in line
15 with that decreasing demand, I just mentioned. This
16 reduced fuel production would reduce emissions associated
17 with both the extraction and the refining of petroleum
18 fuels in our state.

19 The graph on the left shows that under this
20 scenario, there would be an 89 percent reduction in the
21 greenhouse gas emissions from the oil and gas extraction
22 sector in 2022 and 2045.

23 COMMISSIONER MONAHAN: I'm sorry. I'm sorry to
24 interrupt, but I'm having a really hard time online hearing
25 you. I don't know if anybody else on the dais is having or

1 on the phone is having troubles hearing.

2 MS. KOZAWA: Yeah. Yeah, the microphone is not
3 quite picking up.

4 MR. LANGFITT: Okay, no worries. All right, I'll
5 just go back slightly.

6 The graph on the left shows that under this
7 scenario, there would be an 89 percent reduction in
8 greenhouse gas emissions from the oil and gas extraction
9 sector from 2022 to 2045. And the graph on the right shows
10 an 85 percent reduction in petroleum refining sector
11 emissions, or a 94 percent reduction if carbon capture and
12 storage is also used.

13 It's important to note that the Scoping Plan
14 calls for a phase-down but not a complete phaseout of both
15 the demand and supply of fossil fuels within that 2045
16 timeframe. Given that some liquid fuel demand will persist
17 past 2045, if we were to completely phase out in-state
18 supply, it's possible that we'd have to increase our
19 reliance on biofuels or, potentially, import fossil fuels
20 to meet California's liquid fuel demand.

21 Next slide, please.

22 Californians use less gasoline and diesel, we
23 need a plan to manage supply and demand and any related
24 impact. The 2022 Scoping Plan identified the need for this
25 type of transition planning, and that's summarized by the

1 quote on this slide that comes directly from the Scoping
2 Plan. So it reads,

3 "If the supply of fossil fuels is to decline along
4 with demand, a multi-agency discussion is needed to
5 systematically evaluate and plan for the transition to
6 ensure that it is equitable."

7 Next slide.

8 Through the Scoping Plan process, a number of
9 transition concerns were identified by stakeholders and our
10 partner agencies that CARB acknowledged should be addressed
11 through future work. These include the direct and indirect
12 job and economic impacts, the fact that there will be
13 ongoing demand for liquid fuels, that includes fossil
14 gasoline and diesel, as well as renewable fuels, legal
15 considerations around how the transition might occur,
16 public health benefits that may accrue, and demand and
17 supply strategies for petroleum fuels, including how to
18 avoid short-term supply constraints that may especially
19 impact low-income consumers.

20 Next slide.

21 So this leads us into the Transportation Fuels
22 Transition Plan that we're kicking off in this
23 presentation. Again, this plan was called for in Senate
24 Bill X1-2, the same bill that called for the Transportation
25 Fuels Assessment. And as I mentioned before, this

1 Transition Plan will be a joint effort between CARB and the
2 CEC. The Plan will discuss how to ensure that the supply
3 of petroleum and alternative transportation fuels is
4 affordable, reliable, equitable, and adequate to meet the
5 demand for those fuels that's described in the 2022 Scoping
6 Plan.

7 The Transition Plan builds off of the
8 information in the Transportation Fuels Assessment that CEC
9 presented earlier. And it will also be prepared in the
10 consultation with a multi-agency, multi-stakeholder work
11 group. And that work group will ensure that the plan
12 covers a wide range of viewpoints and expertise.

13 Next slide.

14 Initial topic areas that we're planning to
15 address in the Transportation Fuels Transition Plan really
16 key off those recommendations that were given in the
17 Scoping Plan, and also from the content in the
18 Transportation Fuels Assessment.

19 So the initial topic areas that we're envisioning
20 will be focused on as part of this Transition Plan
21 development are the policy levers to manage fuel supply and
22 demand, which will be primarily coming from the
23 Transportation Fuels Assessment that CEC presented on
24 already, actions and strategies to protect communities,
25 strategies to protect fuel affordability and availability,

1 especially for those who are less able to quickly
2 transition to zero-emission vehicles, assessing potential
3 refinery transition scenarios, discussing gaps in existing
4 statutory and regulatory requirements for fuel supply, and
5 discussing ideas for equitable transition of the fuel
6 production workforce.

7 So although we're saving comments for the end, I
8 did want to get everyone kind of thinking about some of the
9 key questions that we'd like feedback on.

10 So the first one on this slide says, we'd like to
11 know what it means to you to have a safe, equitable
12 transition, especially as it relates to the initial topic
13 ideas on this slide.

14 Next slide, please.

15 The Transition Plan will be informed by numerous
16 efforts and sources of information. Together, these will
17 ensure a strong technical foundation, and that we have
18 meaningful input from affected individuals and
19 organizations reflected in the Plan. So these sources of
20 information include the 2022 Scoping Plan update for demand
21 scenarios and transition considerations, the Transportation
22 Fuels Assessment for analysis of options to manage supply
23 and demand and prevent price spikes, future assessments of
24 transition scenarios, too, for how refineries might respond
25 to falling demand for fuels, the stakeholder workgroup that

1 I previously mentioned to, again, ensure that a diverse set
2 of experts are providing input on the plan, and workshops
3 and community meetings for CARB and CEC to both provide
4 information and to receive feedback and ideas from the
5 public.

6 We've already discussed the Scoping Plan and the
7 Transportation Fuels Assessment, so in the next few slides
8 I'll discuss the other three items here, the stakeholder
9 workgroup, the workshops and community meetings, and the
10 refinery scenario modeling in just a bit more detail.

11 Next slide, please.

12 The workgroup will be made up of a wide range of
13 stakeholders representing many different interests. The
14 makeup of this workgroup is actually specifically called
15 for in the bill, in SB X1-2. And in the next slide I'll go
16 over the types of organizations that will be participating
17 in that workgroup.

18 We're working to get professional facilitation
19 services for this workgroup through a third-party
20 contractor to maximize the effectiveness of those workgroup
21 meetings. We're planning to hold four workgroup meetings,
22 each with a different overarching theme for discussion.
23 We'll have questions prepared for the workgroup, and then
24 the facilitator will moderate a discussion on those
25 questions. Topics for discussion include at least planning

1 for how fuel suppliers might react to reductions in fuel
2 demand, the best policy options to mitigate price spikes
3 being off of the Transportation Fuels Assessment, and how
4 to equitably transition the fuel production workforce.

5 Next slide.

6 So as I mentioned, SB X1-2 specifies what types
7 of organizations need to be included in this workgroup.
8 The text on this slide is a direct quote from the
9 legislation as it was codified into law. So the workgroup
10 members must include at least organizations representing
11 environmental justice, labor, environmental protection,
12 land use, public health, state's fuel producers and
13 refiners, and relevant state, regional, and local agencies.

14 If you represent an organization and your
15 organization is interested in joining this workgroup,
16 please get in touch with us to talk about what that would
17 entail. We're going to have our contact information at the
18 end of the presentation, so we'd be happy to hear from you
19 and talk about being on that workgroup.

20 Next slide.

21 Throughout the process of developing the
22 Transportation Fuels Transition Plan, we'll be holding two
23 types of public meetings. We'll hold daytime workshops
24 where we'll be sharing publicly available preliminary
25 results and that could include presentations by CARB and

1 CEC, as well as from any contractors that are also working
2 with us on the effort. At the workshops there will also be
3 the opportunity for public comment so that we can receive
4 feedback from stakeholders who are primarily available
5 during the daytime.

6 We'll also hold community meetings where we'll
7 give brief presentations to share basic information about
8 the Transition Plan, but really those meetings will be
9 focused on collecting input from community members. And
10 those meetings will take place in the evening to
11 accommodate the schedules of those who can't attend a
12 daytime event.

13 Next slide.

14 Part of the Transition Plan will be a technical
15 analysis of possible refinery transition scenarios, so what
16 that means is what may happen with refineries as demand for
17 transportation fuel is reduced. There's multiple possible
18 options for what could happen to refineries, such as
19 transitioning to produce cleaner liquid fuels, shifting to
20 exports, or closing down. You can see those potential
21 options reflected in the question that I have on this
22 slide. And, again, we've included this question just to
23 get everyone thinking about the kind of feedback we're
24 looking for.

25 This modeling work will consider estimated demand

1 for gasoline, jet, and other fuels in California and in
2 neighboring states and regions, as well as the
3 infrastructure constraints that exist for moving fuels.
4 The work will also consider risks with authority,
5 geography, regulatory implementation, and other similar
6 issues.

7 We expect this work to primarily be done through
8 a contract that was put out publicly for competitive
9 bidding in February and for which we've released a Notice
10 of Intent to award to ICF.

11 Okay, so that covers the overview of the
12 Transition Fuels Transition Plan. Now, on to the next
13 steps.

14 SB X1-2 calls for this Transition Plan to be
15 completed by the end of the year, so we'll be working
16 expeditiously to get this process moving along. Next steps
17 are to assemble the workgroup, hold the first workgroup
18 meeting, and hold the first community meeting. We'll also
19 be beginning the technical work on the refinery transition
20 modeling scenarios and starting to incorporate the
21 information from the Transportation Fuels Assessment into
22 the Transition Plan.

23 You can use the link at the bottom of this slide
24 to access the SB X1-2 website and follow along the process.
25 So this is where any publicly scheduled events will be

1 posted for both this effort and other SB X1-2 efforts as
2 well.

3 Next slide, please.

4 So next up will be the questions and comments
5 from the dais, but after that, we'll be opening up for
6 public comment. The questions on this slide are just a few
7 examples of the difficult issues that we want your feedback
8 on. This list is in no way exhaustive. It's really just
9 meant to jumpstart the conversation. So, of course, please
10 feel free to comment on any issues relating to this
11 planning process.

12 But the questions we have here are: Which
13 strategies in the Transportation Fuels Assessment would
14 best protect fuel affordability for low-income and rural
15 communities? What are the key metrics for evaluating and
16 tracking progress on equity issues during the transition?
17 And what strategies can best support an equitable workforce
18 transition?

19 Next slide, please.

20 All right, so if you have any questions on the
21 Transition Plan or if you represent an organization that is
22 interested in maybe serving on that workgroup, please get
23 in touch with the contacts we have here on this slide.

24 So thank you, and I'll turn it back to Kathleen
25 for questions and comments from the dais.

1 MS. KOZAWA: Thanks so much, Quinn.

2 At this point, I'd like to turn it over to the
3 dais for comments, and I'm happy to answer any questions as
4 well.

5 EXECUTIVE DIRECTOR BOHAN: Well, thank you,
6 Kathleen and Quinn, excellent presentation. And you bought
7 back a little bit of the time we had lost by going a little
8 longer earlier, so thank you very much.

9 Let me again go through the dais members that are
10 joining us virtually, and I'll start again with
11 Commissioner Monahan.

12 COMMISSIONER MONAHAN: And actually, I'll pass it
13 to Chair Randolph, since this is -- seems like CARB -- I
14 mean, CARB is taking the lead on this one, although we're
15 definitely going to be involved in this as well.

16 CHAIR RANDOLPH: Yeah, I guess I would say I have
17 more of a comment than a question, which is, I really
18 appreciate all the work that Kathleen and Quinn and other
19 CARB staff have done on this. And kind of most
20 importantly, it's really going to involve a lot
21 coordination with the resources agency, EPA and, of course,
22 the CEC. And so I want to make sure folks understand that
23 this is, you know, kicking off a process where there's
24 going to be a lot of opportunity for diving deep into these
25 issues and I think the last panel really hit on some of the

1 key transition points we're going to need to be thinking
2 about. And, you know, it was interesting hearing some
3 creative thoughts about how we're thinking about that
4 supply and demand kind of working together over time.

5 And I would also say that it is -- the
6 legislation does say that the report needs to be done at
7 the end of the year, but I also want to be mindful of the
8 fact that we want to make sure we have robust input and
9 plenty of opportunity for discussion, you know, within the
10 workgroups and also in the community meetings. So I want
11 to make sure that we allow enough time for all of this,
12 that work that needs to happen. So I just want to make
13 sure that we're not so focused on the calendar and much
14 more focused on the substance and making sure where we get
15 good input.

16 So those are my comments. I really appreciate
17 this process being kicked off. I know there are a lot of
18 organizations that have been eagerly awaiting this process
19 to start and have already raised their hand to participate.
20 And so we're looking forward to that continued engagement.

21 EXECUTIVE DIRECTOR BOHAN: Excellent. Thank you.

22 Deputy Secretary Izant.

23 DEPUTY SECRETARY IZANT: Thank you. I don't have
24 any questions at this time.

25 EXECUTIVE DIRECTOR BOHAN: Great.

1 Commissioner Monahan, do you have anything you'd
2 like to add or questions you'd like to ask?

3 COMMISSIONER MONAHAN: Well, just I really
4 appreciated the thoroughness of the public engagement
5 process that's being proposed here. I do think, as Chair
6 Randolph said, it's really critically important that we
7 hear from diverse constituents about what this means for
8 labor, what this means for communities, what this means for
9 low-income families, and really do the best job of
10 synthesizing that input and helping us with a plan going
11 forward.

12 So I'm just really impressed with the strategy
13 that's being put forward and look forward to actually going
14 out there and hearing from diverse stakeholders about what
15 to do.

16 EXECUTIVE DIRECTOR BOHAN: Thank you.

17 And I'll pass it to you, Deputy Secretary Nguyen.

18 DEPUTY SECRETARY NGUYEN: Hi. Thank you.

19 So I just want to reiterate what I've -- what
20 other dais members have already said. Thank you, again, to
21 Kathleen and Quinn, Quentin, and the CEC and CARB teams for
22 really pushing this effort forward. So, again, really,
23 really appreciate that.

24 And also, calling out to you, I appreciate that
25 you guys separated out workshops from community meetings on

1 this slide. I think that's really important. I think what
2 we heard from what Chair Randolph said on the previous
3 panel, we heard a lot of concerns about, you know, just
4 involvement of community members and safety. And all of
5 these things, I think, will be, you know, part of the
6 discussions that we have with the workgroup and with the
7 community members. So, again, really appreciate that you
8 call that out separately so people understand that we are
9 trying to get feedback on this and get participation to
10 come up with this really robust Transition Plan.

11 EXECUTIVE DIRECTOR BOHAN: I'm expecting the Vice
12 Chair any moment, but not seeing him. I will potentially
13 close this part of the conversation before we get to public
14 comment with one question.

15 I'm wondering, Kathleen, it's early, so maybe we
16 haven't formulated this, but how are we thinking about the
17 tension between the statutes requirement that we develop a
18 plan to keep gasoline, safe, affordable, reliable,
19 equitable for as long as California consumers demand it,
20 which implies continuing refinery operations likely, with
21 some of the concerns we heard in the earlier panel about
22 the problems caused by refineries in the local communities
23 where they reside?

24 MS. KOZAWA: I think that's a great question and
25 I think that's something -- it's part of many hard

1 questions, I think, that we're going to have to work
2 through in these workgroup discussions, and so that's why
3 this call for participation in the workgroup. And we want
4 to get as many voices in there as possible so we could have
5 these discussions and really figure out how to find
6 solutions for how that nexus does happen, like how does
7 that phase-down happen and how do we protect communities
8 and, you know, still maintain a little bit of fuel doubt
9 that is going to be needed into the future.

10 EXECUTIVE DIRECTOR BOHAN: Great.

11 With that, I think we're ready for public comment
12 for this portion of the workshop.

13 MR. SAMUELSON: All right. As a reminder one
14 person per organization may make comments and comments are
15 limited to three minutes per speaker. We will do the same
16 order, in-person, then Zoom with the raised hand, and then
17 we'll go to the phones. As a reminder for those on the
18 phone, dial star nine to raise your hand and star nine to
19 mute and unmute your phone.

20 We will begin, starting with in-person. Do we
21 have anyone in-person that -- sorry.

22 Before that, remember to state and spell your
23 name and affiliation.

24 Anyone in-person? No one in-person.

25 We'll go ahead and move on to Zoom.

1 MR. SAMUELSON: Yes.

2 MR. KARRAS: Thank you. This is Greg Karras.
3 What had happened was I had raised my hand to speak at the
4 end of the last session, and I got bounced to this one. I
5 was away from my desk. But I do have a comment, and the
6 same comment applies to both the definition of safety and
7 how that relates to cost and urgency in one particular way.

8 It looks like there's a perceived tension or
9 disincentive to do the kind of upgrades for safety that
10 United Steelworkers representative Mike Smith was talking
11 about in the earlier session, namely that, you know,
12 companies want to keep running, keep making gasoline rather
13 than park the unit so they can fully inspect and work on
14 it. And sometimes they just don't want to spend the money
15 on the upgrades. That's not a new thing. I probably don't
16 need to go on long about it, but the problem is that it's
17 coming back again now in a big way.

18 I joined in comments before, showing that
19 deferred maintenance was one of the causal factors in the
20 disastrous Chevron Richmond refinery fire in 2012 that sent
21 15,000 to the hospital's emergency rooms. It was also one
22 of the factors in the disastrous explosion in 2015 of the
23 ExxonMobil Torrance refinery that thankfully didn't kill
24 any workers. It probably would have if they hadn't been on
25 break. But the state had Rand Corporation do an estimate

1 of the full cost to the state's economy, \$6.9 billion, with
2 a B. And so these -- there's enough information to
3 monetize this as part of the safety.

4 And in terms of the urgency, right now, despite
5 all of the talk about storage and all of the CEC's great
6 work to shine a spotlight on things like the low inventory
7 that was part of the factors in the gas price spikes,
8 inventory is running low now. It has been over the last
9 few weeks for gasoline statewide, and that's in the run-up
10 to the summer driving season.

11 Meanwhile, the refiners are still exporting
12 several times. You know, making up that inventory, getting
13 it back to the minimum levels, would be less than seven
14 percent of the exports of gasoline that the refiners are
15 doing to other states and nations. And they have the
16 storage capacity. They had it, you know, last month or
17 three months ago, they had it, you know, last year. We
18 know they have tanks for that kind of storage. It's a
19 small sliver of total production. So there's no real
20 excuse for this.

21 The reason it's happening is that this industry
22 is unregulated in many ways, including whether we even mind
23 the store and make sure they keep inventory. And then they
24 turn around and use it as an excuse, or we let them use it
25 as an excuse, to defer maintenance, which could cause these

1 kinds of serious, life-threatening incidents in the second-
2 most hazardous industry in the world after nuclear power
3 plants.

4 And, you know, this is strong evidence that there
5 is a lot of room to move in the positive direction with
6 this Transition Plan if we actually take the word safety in
7 the statute seriously and incorporate that fully into the
8 Transition Plans.

9 Thank you for letting me speak.

10 MR. SAMUELSON: Thank you, Greg. I didn't catch
11 the spelling of your name or the affiliation, if you
12 wouldn't mind doing that?

13 MR. KARRAS: Yeah, it's G-R-E-G K-A-R-R-A-S. I'm
14 with Community Energy Resource.

15 MR. SAMUELSON: Thank you, Greg.

16 There are no more raised hands on Zoom for public
17 comment.

18 MS. GUTIERREZ: Okay, so we are at the end of our
19 program.

20 Just wanted to remind everybody that's
21 participating in the room and on Zoom that comments are due
22 by the 17th to our docket if you'd like to comment on
23 either the Assessment or the Transition Plan presentation.

24 And now I will turn it to Drew Bohan for closing
25 remarks.

1 EXECUTIVE DIRECTOR BOHAN: Thanks, Aleecia. This
2 was a great afternoon. Thank you to everybody who
3 participated. The public comments were excellent. The
4 panelists were really helpful. And hearing from colleagues
5 from CARB who I haven't met, Quinn, thought you did a great
6 job, so thank you all for taking the time.

7 And I will pass it off to my colleagues for
8 closing comments.

9 I'll start on the dais with Deputy Secretary
10 Nguyen.

11 DEPUTY SECRETARY NGUYEN: Oh, thank you.

12 Yes, thank you all for the workshop. It was
13 really wonderful. It was really good to hear the panelists
14 and hear the kind of conversation back and forth. The
15 presentations were really great. I love that the first one
16 had the pros and cons as we talked through each of the
17 options.

18 And then, Quinn, thank you for walking us through
19 all of the components of the Transition Plan or what we're
20 hoping to do over the next few months through the end of
21 the year, so thank you so much.

22 EXECUTIVE DIRECTOR BOHAN: Let's go to Chair
23 Randolph.

24 CHAIR RANDOLPH: Just expressing my thanks,
25 again, to staff and especially to the panelists that was a

1 really robust discussion and looking forward to the
2 Transition Plan process.

3 EXECUTIVE DIRECTOR BOHAN: Commissioner Monahan?

4 COMMISSIONER MONAHAN: Well, I want to keep on
5 thanks to staff for at both CARB and the CEC for all their
6 hard work. I really am impressed with the Transportation
7 Fuels Assessment, which I think did a really great job of
8 laying out the options and doing a lay of the land, and
9 that was a lot of work. So just congratulations to the
10 staff for pulling that Assessment together and it really, I
11 think, will help with the Transition Fuels Transition Plan
12 in the next steps and public engagement. So look forward
13 to continuing this discussion.

14 EXECUTIVE DIRECTOR BOHAN: Great.

15 Deputy Secretary Izant, why don't you close us
16 up?

17 DEPUTY SECRETARY IZANT: All Well, I will echo
18 the thanks of my fellow dais members here, just again
19 acknowledging all of the work of the Energy Commission and
20 Air Resources Board staff. We really do appreciate all the
21 work that went into the reports themselves and the
22 presentations today, and for providing this workshop an
23 opportunity for members of the public to be engaged, and
24 really looking forward to the coming months as the work
25 continues on the Transition Fuels Transition Plan. Again,

1 we think there's a really good next step and path forward
2 for having robust engagement, so thank you all very much.

3 EXECUTIVE DIRECTOR BOHAN: All right. Well,
4 thank you all. Have a wonderful weekend. And we are
5 adjourned.

6 (The workshop adjourned at 4:24 p.m.)
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CERTIFICATE OF REPORTER

I do hereby certify that the testimony in the foregoing hearing was taken at the time and place therein stated; that the testimony of said witnesses were reported by me, a certified electronic court reporter and a disinterested person, and was under my supervision thereafter transcribed into typewriting.

And I further certify that I am not of counsel or attorney for either or any of the parties to said hearing nor in any way interested in the outcome of the cause named in said caption.

IN WITNESS WHEREOF, I have hereunto set my hand this 20th day of June, 2024.



MARTHA L. NELSON, CERT**367

CERTIFICATE OF TRANSCRIBER

I do hereby certify that the testimony in the foregoing hearing was taken at the time and place therein stated; that the testimony of said witnesses were transcribed by me, a certified transcriber and a disinterested person, and was under my supervision thereafter transcribed into typewriting.

And I further certify that I am not of counsel or attorney for either or any of the parties to said hearing nor in any way interested in the outcome of the cause named in said caption.

I certify that the foregoing is a correct transcript, to the best of my ability, from the electronic sound recording of the proceedings in the above-entitled matter.



MARTHA L. NELSON, CERT**367

June 20, 2024