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CALIFORNIA ENERGY COMMISSION

In the matter of:

Order Instituting Informational)
Proceeding on Maximum Gross) Docket No. 23-OIIP-01
Refining Margin and Penalty)
_____)

SENATE BILL X1-2 WORKSHOP

HYBRID IN-PERSON AND ONLINE VIA ZOOM

TUESDAY, NOVEMBER 28, 2023

9:00 A.M.

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P R O C E E D I N G S

9:04 a.m.

TUESDAY, NOVEMBER 28, 2023

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4 MS. GUTIERREZ: Good morning. Welcome to the
5 California Energy Commission's SB X1-2 workshop. My name
6 is Aleecia Gutierrez and I'm the Director of the Energy
7 Assessments Division. While we've held several workshops
8 on various elements of SB X1-2, today's workshop kicks off
9 the discussion for the maximum gross gasoline refining
10 margin and penalty.

11 Before we begin, I'll go over some housekeeping.

12 For those in the room, restrooms are located out
13 the atrium to your left. And in case of emergency, please
14 follow our CEC staff out the emergency exit to Roosevelt
15 Park, which is kitty-corner from our building.

16 We will have a slide at the end of the deck that
17 gives instructions on the docket and how to submit
18 comments. And we'll also have a portion for public
19 comments at the end of the agenda.

20 The agenda is shown here for today. We'll start
21 off with a welcome and overview of the scope of the
22 workshop. Then we'll follow up with some opening remarks
23 from the dais, followed by a presentation on the economics
24 that -- for margin and penalty, followed by more questions
25 and comments from the dais. Then we will have our

1 roundtable discussion, which is the feature of today, where
2 we will be exploring the impacts and benefits of
3 implementing a max margin and penalty, more questions and
4 comments from the dais, and then public comment and our
5 closing remarks.

6 So with that, I will hand off to Drew Bohan,
7 Executive Director of the California Energy Commission.

8 EXECUTIVE DIRECTOR BOHAN: Great. Thank you,
9 Aleecia.

10 Vice Chair Gunda, Director Milder, good morning.
11 I'm really glad to be able to present to you today. Vice
12 Chair Gunda, your staff have been very busy for the last
13 six months or so.

14 As you know, the governor signed SB X1-2 in March
15 of this year. We were to, within 90 days, stand up a data
16 portal, which we did, and we started receiving very large
17 amounts of data from industry. We held a workshop prior to
18 that to get feedback from the public, and we held
19 individual meetings with industry members, with
20 environmental groups, environmental justice groups, labor,
21 academia, to make sure we're collecting the right data and
22 to get people's input on the various pieces of this
23 legislation.

24 The slide you see shows all the different parts
25 of the legislation, the major parts of the legislation. We

1 are not going to go through those all today. Our focus is
2 on the one circle that says today's topic in red, but just
3 a brief history of some of the others.

4 So the Transportation Fuels Assessment is due by
5 the end of this year to the legislature. That's a look at
6 how the state might implement tools to mitigate or
7 eliminate gasoline price spikes, and to look at the long-
8 term trend over time as gasoline consumption goes down
9 while electric vehicle use goes up. Following that is a
10 Fuels Transition Plan that we are working on with the
11 California Air Resources Board. That's due at the end of
12 next year, and we'll be having workshops on that topic
13 beginning next year.

14 A number of other things we're doing, in the
15 lower right, you see market management analysis that is
16 going to be conducted by the Division of Petroleum Market
17 Oversight that Director Milder leads.

18 But let's get into the next slide, which is the
19 timeline for the topic we're going to focus on this
20 morning. This just shows some of the major activities that
21 we are conducting.

22 It starts with the signing of the bill and the
23 data collection. But last month, you'll recall, Vice
24 Chair, you and your colleagues adopted what we call an
25 OIIP, an Order Instituting Informational Proceeding, of

1 which this meeting we're at this morning is a part of, and
2 that launches this investigation into the propriety of
3 establishing a maximum margin on gross gasoline refining.
4 So we'll be conducting workshops beginning early next year.
5 We are really looking forward to the feedback from a panel
6 we have today, and we invite feedback from any member of
7 the public on this topic.

8 We are expecting to have a recommendation, so we
9 will be endeavoring to make a recommendation to the
10 Commission itself sometime next year on whether or not to
11 impose a penalty. Ultimately, it will be your decision,
12 but you will be provided with the staff recommendation.

13 Next slide, please.

14 So what animates this discussion? I put a few
15 quotes here from the legislation itself. These are the
16 findings. I'm not going to read them all, but essentially,
17 they talk about how there were capacity limitations, there
18 was inventory shortages, the last couple -- it was
19 referring to 2022, but the same situation occurred just
20 this last summer. It talks about how the profits of the
21 industry that supplies fuel the Californians rely on have
22 been substantial, and that there needs to be change to this
23 in order to protect consumers in California. So that's
24 really the backdrop for today's conversation.

25 Next slide, please, Ryan.

1 This is just an illustration. On the right is a
2 slide from a press release from the Governor's Office, and
3 you can see some of the profit that the various companies
4 have made in the third quarter of this year when prices
5 were getting very, very high. And again, this is part of
6 what has been undergirding this conversation about managing
7 prices in California.

8 Next slide, please.

9 So what does the legislation actually direct us
10 to do? The language says, and I quote, "The CEC may set a
11 maximum gross gasoline refining margin," that's it, there's
12 just one sentence. What I've got on the screen here is
13 some of the things we're charged to look at in order to
14 make this recommendation.

15 So in order for the Commission to impose a
16 penalty on the refining industry, it must first determine
17 that the benefits to consumers outweigh the costs, which
18 makes sense. In doing so we're directed to look at two
19 things. One is supply and demand. What impact would
20 imposing a penalty on industry have on the supply of
21 gasoline, good, bad, indifferent? And what would a penalty
22 do, if anything, to the price of the pump? These two are
23 obviously very closely related. As supply goes down, price
24 goes up. As there's abundant supply, that often suppresses
25 price.

1 And then, finally, the legislation says the
2 Energy Commission can also look at any other factors that
3 it deems relevant. So we, of course, invite the
4 Commissioners to weigh in, Director Milder, and again, I'm
5 very eager to hear from the panel and then from the public
6 about what other things we should be considering in making
7 this judgment.

8 Next slide, please.

9 When we think about this framing, you know, we
10 ask ourselves, how should we frame our thinking around
11 whether a penalty in this area is a good idea? And there's
12 a number of different ways to look at it. We put up two
13 here and then an other. So again, we invite views of
14 others. But two particular ways to look at it are on the
15 screen here.

16 I would start by saying, however, that one thing
17 that the penalty is not meant to be is a punishment for
18 conduct that is already criminal. We have the Division, as
19 noted, and they'll be looking at things like price fixing
20 and other conduct that's unlawful. There could be a
21 referral to the attorney general and that sort of thing.
22 This part of the legislation, the penalty we're talking
23 about for today, is not about illegal behavior.

24 We put up two different ways to frame this. And
25 the first is just to look at the way the market in

1 California is structured. It's inefficient. There's very
2 little competition. This is a huge market, third largest
3 market in the world for petroleum, and there's a very small
4 handful of sellers. As a consequence, they're in an
5 outsized position to have an impact on the market, unlike
6 various markets where there's innumerable players.

7 In addition, there's high barriers to entry.
8 This is not something that someone can decide, hey, let's
9 start a refinery. It's a massive investment, a massive
10 operation, so that isn't realistic, really.

11 And then in addition, there's limited
12 information. The industry is opaque, partly by design,
13 because we don't want industry players to know what their
14 competitors are doing, because that could have a negative
15 impact on prices. But it also means that the industry
16 itself is sometimes not crystal clear on what's happening.
17 So one way to look at it is just that the market structure
18 is questionable. And that might be a reason for a penalty
19 to reduce the impact on customers of when the market
20 behaves in a way that causes prices to go up.

21 This is not unprecedented. There's other areas
22 in society where we do this sort of thing. They aren't
23 perfect parallels, but consider things like rent control.
24 Rent control is common in many cities in the United States.
25 And it places an obligation on private industry to control

1 prices. Utility prices are controlled by government
2 regulators throughout the country. Prescription drug price
3 caps are not uncommon. There's minimum wage. And there's
4 other areas. I throw those out as food for thought of how
5 we might think about it.

6 The second way of framing this that we wanted to
7 offer to you this morning is it's possible that these
8 structural inefficiencies, these market inefficiencies, are
9 being manipulated. We are not suggesting that as the staff
10 of the Energy Commission to you today. We don't have clear
11 evidence that something like that is happening but it's
12 certainly possible with a small number of players, that
13 kind of thing can happen. And so a penalty in that case
14 would be a determined deterrent to that sort of thing.

15 The players in this market, the refiners, control
16 what supply is in California to a large degree. They
17 produce gasoline, of course, in California. Some 90
18 percent of the fuel consumed in California is refined in
19 California. So crude is imported, it's refined here, and
20 it's sold in California. But a ten percent-ish is brought
21 in annually by ship. And the refiners are free to bring in
22 more. They're not compelled to do so.

23 But when supplies start to get tight, that puts
24 the refiners in a position to bring in more fuel to
25 maintain supply at a level that will keep price within

1 reason. And they don't routinely do that at a level that
2 will keep the prices where Californians who rely on this
3 critical commodity can continue to get by without having to
4 make decisions about healthcare and childcare and whether
5 or not they can get to work because they can't afford the
6 price of fuel.

7 Finally, I would just say the market structure,
8 as we observed in the middle of September, behaves in an
9 unusual way. So there was a trade, I think it was
10 September 15th, a Friday, one trade that took place in this
11 market, and a private entity reports these trades. That
12 trade sent what's called the base price from a little over
13 a dollar to just under \$1.50 with one trade. As a
14 consequence, this was on a Friday, on Monday, and
15 throughout the week, the price of gasoline at the pump went
16 up considerably.

17 So these are all the things that your staff are
18 looking into, and we don't have definitive recommendations
19 or answers for you today. And, again, hopefully learn more
20 today and get some explanations and some thoughts from the
21 folks on the panel.

22 Next slide, please, Ryan.

23 This slide is a little bit complicated, but what
24 this shows is the year 2022, January 1 starts over at the
25 left, and what we're looking at is the price of gasoline.

1 So this was 2022. If you look at the first circle there on
2 the graph, that was shortly after the invasion of Ukraine.

3 And to give a little background, the green color
4 on this graph is the crude oil price, and you'll see it
5 moves up and down throughout the year. The next wedge
6 above that, the gray, is the refinery costs and profits.
7 That's what we're focused on. That's what SB X1-2 is all
8 about, so I would call your attention to that gray line.
9 And then the one above it, the dark blue wedge, that's the
10 distribution costs. So in this industry, you have refining
11 and refining costs. And then once the refiners sell the
12 product to others in the distribution side, all the way
13 down to the pump where you fuel your car, that's the
14 distribution side. So refining in gray, distribution in
15 all the different players in that chain in the blue.

16 And what you can see is that around March, soon
17 after the February invasion, the price went up. The price
18 of crude went up, the refiner margin went up, and the
19 distribution margin went up. Then they went down after a
20 while, and there was another small spike in the summer.

21 And then I'll call your attention to the oval all
22 the way over to the right. This was last September, and
23 you can see the price of crude actually dipped. It
24 certainly didn't go up a lot. So that wasn't a driver of
25 price. But the price went very, very high. And you can

1 see both the refinery margin in gray and the distribution
2 margin in blue both went up.

3 Then I'll show a slide in a second that reflects
4 an action the governor took, but the price dropped very,
5 very fast. And you'll see the refinery costs and profits
6 went down very quickly at the very left edge of that oval,
7 but the distribution costs didn't go down nearly as fast.
8 They went down slowly. We'll hear from our economist
9 friend a little bit later about some of these dynamics.
10 But this is just an illustration of how this happened.
11 2023 wasn't much different.

12 Next slide, please, Ryan.

13 This just stacks the year 2022 and 2023 together.
14 Again, you can see at the bottom, the blue, the crude oil
15 cost doesn't change wildly. But in orange, the refinery
16 costs, again, you see in the September, October timeframe,
17 they get very large and then -- in both years. And then
18 trailing them as the distribution costs in green that are
19 larger in the later months after the high increase on the
20 refining side.

21 Next slide, please.

22 This just shows in one short period, September 1
23 to December, the end of December 2022 and 2023. And the
24 boxes represent when the governor announced the -- or
25 called for an early transition to winter blend. This is a

1 fuel mixture that includes a lot more butane. It's
2 abundant, it's low price, and it has the effect of boosting
3 supply substantially. We can't say with certainty that
4 there was cause and effect between the governor's
5 announcement, but it sure is a strong correlation. And we
6 have reason to believe that this announcement was critical
7 to reducing price. And you see that the lines are very
8 similar, slightly different sizes. But soon after the
9 announcement, the price went down very, very quickly, and
10 Californians were in a much better place.

11 Next slide, please. And I've just got a couple
12 more slides.

13 This slide is busy, but let me just take a second
14 to deconstruct it. What this slide is trying to illustrate
15 is that one of the key drivers in this industry, like many
16 products that are sold, is supply and demand. So this is
17 really representing supply and then how price corresponded
18 to supply. So the big dark parts of the graph, the orange
19 represents the 2023 inventories. Inventories are the total
20 stock of petroleum in California. And the dashed lines
21 represent the price.

22 So if you look at the orange this year, you see
23 the trend downward in the middle part of this graph as the
24 inventories went low. Demand gets higher in the summer for
25 gasoline, and inventories drop. Again, there aren't many

1 ships brought in to supplement this fuel shortage, and they
2 could be. But as a consequence of this suppressed supply,
3 you'll see the dashed orange line, the price, going up.

4 Same exact thing in 2022. If you look at the
5 blue, it peaks in about the middle of the graph there, the
6 supply, and then it falls off below the orange. You can't
7 even see it. It gets hidden behind the orange. And if you
8 look at the dashed blue line, similarly, you see price
9 going down. And then once the inventories get really,
10 really low, the price spikes very, very high.

11 So this is just an important slide to get a
12 reference point for how supply of gasoline has a very large
13 impact on price.

14 Next slide, please.

15 We are not, this morning, recommending, Vice
16 Chair or Director Milder, any particular approach to the
17 margin, but we wanted to provide for you an illustration of
18 how this would work. So this slide here just looks at the
19 data we've been looking at in the last few slides,
20 simplifies it a little bit, and it spreads out over a
21 calendar year, and over a number of years. And it just
22 shows the price of gasoline over time. And as you see,
23 it's very high at certain points.

24 What we've looked at is how often over the
25 last -- this is about 20 years. Over these last -- it's

1 2015 to 2023, excuse me. But over this period of time, how
2 many times did this margin that is the focus of our
3 conversation, how often did this margin go above \$1.00?
4 And the answer is five times. It happened five times. And
5 it went over \$0.80 cents 18 times. It went over \$0.60
6 cents 46 times. So we show this because if the Commission
7 were to adopt a maximum margin and then impose a penalty
8 above that margin, this slide illustrates what sort of
9 revenue would that generate for the state of California.

10 And I won't read them all, but if you just look
11 at the dollar level, had this been in place and nothing -
12 no other behavior had changed from the period 2015 to 2023,
13 the revenue to the state would have been \$1.2 billion, and
14 it goes higher if the level were \$0.60 cents, it would --
15 the revenue would be \$9.5 billion. So again, we're not
16 recommending this at this time, but just wanted to
17 illustrate the options.

18 I also want to make one note. This data that
19 you're looking at is based on what we call the 1322 data.
20 This was a bill, SB 1322, that passed that gave the Energy
21 Commission substantially increased authority to collect
22 data from the industry. We've been collecting data for
23 decades from the industry, but this really increased the
24 degree, the amount, the specificity, and so that's what
25 this data is based on. Historically, we have reported data

1 for this industry, but we have gotten much of that data
2 from other sources, other private reporting sources from
3 the Energy Information Association, from OPIS. There's a
4 number of players where we get that information.

5 So on our website today, we have some similar
6 type information that has some slight differences. We're
7 working right now on reconciling those, taking the old
8 stuff we've been using for years and harmonizing it with
9 the new data that we're getting directly from the industry.
10 And we'll be doing that over the next few months.

11 So that's my presentation. I finally want to ask
12 to just go to the last slide and tee up the questions.
13 We'll be talking about these the rest of the morning, but
14 again, I just want to frame for the audience what we're
15 hoping to get out of this session.

16 We want to hear from the experts and we want to
17 hear from anyone in the public who cares to comment, their
18 thoughts on these questions: Do the benefits outweigh the
19 costs? If we were to impose this penalty, is this good for
20 California? What kind of impact is it going to have on
21 supply? What about the price at the pump? And is there
22 anything else we ought to be considering? These are the
23 main things that the statute directs us to look at. Staff
24 has some other ideas, but we really want to get others'
25 input.

1 With that, I'll turn it over and thank you for
2 your time.

3 VICE CHAIR GUNDA: Thank you, Drew. Thank you so
4 much for setting the stage.

5 I'm Siva Gunda, one of the Commissioners here of
6 the Energy Commission leading the work on this particular
7 bill. And I'm joined here with Director Tai Milder, who's
8 the Governor Appointee leading our Independent Division,
9 Oversight Division. So I welcome you to, you know, your
10 first proceeding at the CEC in an official capacity.

11 I just want to begin by saying thank you to the
12 staff for pulling this together. I think we've been, as
13 Director Bohan said, you know, we've been hard at work.
14 It's been rapid fire, a lot of work to keep moving here,
15 but I also appreciate the staff doing it thoughtfully and
16 doing it as collaboratively and in a welcoming fashion as
17 you're able to. So I just want to support your spirit of
18 getting the work done in the right way, just protecting the
19 values of the Commission, protecting the integrity of the
20 data we have and the process we have.

21 I specifically want to highlight, you know,
22 Aleecia, to you and your entire team, thank you for all the
23 work you're doing and the Chief Counsel's Office, who has
24 been an integral part of this work.

25 I wanted to just kind of reiterate a couple of

1 pieces that Director Bowen set up. I think for us, you
2 know, setting the penalty and the process of setting the
3 penalty is really important on how we frame it. I'm really
4 looking forward to hearing both from, you know, Matt here,
5 you know, who's going to be discussing economics, kind of
6 energy transition and how to think about penalties and
7 price caps, really looking forward to that presentation,
8 but also from the stakeholders on how do we do this? How
9 do we do this in a way that we frame the penalty?

10 As Drew mentioned, this particular bill is not
11 about existing law; right? So we currently have law where
12 there is a criminal activity and there is penalty for the
13 criminal activity through the, you know, AG's Office or the
14 legal process. This is new penalty authority that has been
15 given to the CEC to support and protect the consumers of
16 California against price gouging. It's a new element.
17 It's not necessarily illegal activity, it's beyond that,
18 you know, what are we observing in terms of market power,
19 in terms of structural deficiencies in the market, and how
20 do we ensure a structuring of a penalty that could protect
21 the consumers at the end? So that's really what the work
22 is about.

23 So I'm kind of looking forward to hearing the
24 discussion, looking forward to the staff work on compiling
25 the thoughts that we hear today and developing

1 recommendations over the next year. And, you know, I just
2 welcome you all to do it really thoughtfully, making sure
3 we get the most input we can from all stakeholders.

4 I also want to just make sure that there's a
5 couple of other elements in the bill apart from, you know,
6 the core element, which is protecting consumers of
7 California. It really sets the stage of two pieces.

8 One is by improving transparency. A number of
9 legislators said it during the discussion legislative
10 process, that we want to, you know, have the sunlight to
11 shine and really help, you know, reduce the infection. I
12 think that's what I heard the legislators say, so that's an
13 important element. I think the staff have been taking
14 steps in, you know, going through the data we're receiving.
15 I'm really thankful for starting the rulemaking so we can,
16 you know, make the data really clear and put it out as much
17 as we can.

18 And I want to just make a public appeal to the
19 staff. You know, I know we have, you know, clear mandates
20 on how to protect information, so I want to make sure that
21 we do that. But I also want to make sure that we balance
22 that with putting as much information as possible out. I
23 think an important spirit of the law here is to make sure
24 that data is available to public so we can have the
25 discourse publicly. So let's make sure that we really

1 enhance the processes to both protecting data but also
2 putting it out as much as we can and maximizing that data
3 output.

4 Second, I think it's the accountability. I think
5 we're all accountable. We're accountable as public
6 servants to do our job. You know, the industry is
7 accountable for what they do. And stakeholders are
8 accountable in how they support the work we do here. So I
9 think this bill is about accountability to making sure that
10 all of us come to the table feeling that accountability and
11 making sure that at the heart of all of this is protecting
12 Californians.

13 So I'm really looking forward to it. I'm looking
14 forward to having this conversation and making sure that,
15 you know, we do a really good job for the state of
16 California.

17 With that, I would welcome Director Milder for
18 his comments.

19 DIRECTOR MILDER: Well, thank you, Vice Chair,
20 for that welcome and for inviting me here today to
21 participate.

22 I'm here today on behalf of the Division of
23 Petroleum Market Oversight. From that vantage point, the
24 key question is how a gross margin penalty could be used
25 effectively and also responsibly to protect consumers in

1 the state of California. To that end, I'm looking forward
2 to the panel discussions today. I'll be listening intently
3 to the panelists as they share their perspectives and their
4 expertise.

5 What I think would be most helpful on this end
6 would be to hear how, as a factual matter, you believe
7 market participants will respond if there is such a
8 penalty. That would include why in your experience you
9 expect that type of response. So specific and concrete
10 factual examples would be greatly appreciated.

11 I look forward to the panel discussion and thank
12 you.

13 VICE CHAIR GUNDA: Aleecia, do we have Director
14 Maduros joining us today? Is he able to join?

15 MS. GUTIERREZ: I don't think he is.

16 VICE CHAIR GUNDA: He hasn't joined yet? Okay.

17 MS. GUTIERREZ: Okay.

18 VICE CHAIR GUNDA: Back to you.

19 MS. GUTIERREZ: So thank you for those comments.

20 Next we will move to our presentation by Matt
21 Zaragoza-Watkins.

22 DR. ZARAGOZA-WATKINS: I'm going to enable my
23 screen sharing here. Just a moment. It looks like we're
24 ready.

25 Thank you so much, Vice Chair Gunda and Director

1 Milder for having me here today. Over the next ten minutes
2 or so I'm going to try and lay a little bit of the economic
3 foundation for the discussion that we're going to have
4 later today. I'll be talking about the maximum gross
5 gasoline refining margin, it's a mouthful, so maybe I'll
6 call it the MGGRM, maybe that'll stick or maybe not, it's
7 economics, through, you know, thinking about the theory of
8 prices, why it is that we see the prices we see when firms
9 have an ability to affect prices. What does that look
10 like? When prices are high, does that always mean that
11 firms are manipulating prices? When might that not be the
12 case? And then thinking through regulation. If we're
13 going to set a maximum gross gasoline refining margin and a
14 penalty associated with when firms go beyond that, what
15 impact might that have in the California industry?

16 I'm here today from Vanderbilt University where
17 I'm an Assistant Professor of Economics, and I'm also
18 currently visiting UC Davis in the Economics Department.

19 Just recapping a bit, right, and underlining some
20 things that we've talked about, SB X1-2 notes or finds, you
21 know, that although we think that there were some
22 preventable capacity limitations and inventory shortages
23 that largely drove the high prices that we saw in the third
24 quarter of '22, and more recently this year and also in the
25 past, maybe that's not the whole story. I'm going to talk

1 through some of the economics of unpacking that statement.
2 What do we mean by capacity limitations and inventory
3 shortages? Why might that be the case that that would lead
4 to high prices?

5 And then additionally, SB X1-2 authorizes the
6 Energy Commission to set a maximum gross gasoline refining
7 margin and a penalty for exceeding it; right? So how could
8 that function? What do we think the impacts of that might
9 be?

10 This really focuses on California refiners and
11 the margins that they face. Of course, refiners are not
12 the only firms that influence price in California and
13 abroad. We have inputs through the petroleum industry
14 upstream. We have spot markets downstream. We have prices
15 at the rack. And ultimately, we have retail prices that,
16 you know, motorists, individual motorists pay. This is
17 really focusing on the refining industry and in particular
18 on California refiners. But again, I just want to
19 emphasize that there are other actors in the space and it
20 will be important to think through what their incentives
21 are and to gather data to try and paint as broad and as
22 rich a picture as we can as we move forward in this
23 proceeding.

24 So now I want you to think abstractly and harken
25 back to your Econ 101 classes and consider an industry with

1 large fixed costs. This is the refining industry; right?
2 It's other industries that are large and energy intensive
3 and capital intensive as well. But the reason the refining
4 industry fits this mold is because, as Executive Director
5 Bohan said earlier, there aren't going to be any new
6 refineries for motor gasoline in California in the
7 immediate future; right? And so we're really sort of stuck
8 with the capacity and the players in that market that we
9 have now in the short run and possibly the long run as
10 well.

11 Those firms made an investment, many of them a
12 long time ago, that was very capital intensive and it was a
13 bet, you know, on the future profitability of this industry
14 in California. That investment needs to be amortized over
15 all of the fuel, right, that's produced in California using
16 those resources in order for that firm to make a reasonable
17 return on investment. A lot of the discussion leading up
18 to this has been, well, what is a reasonable rate of
19 return; right? Have we seen reasonable rates of return?
20 Have we seen rates of return that are beyond that? And, if
21 so, what should we do about it?

22 Graphs. So here we have a market that's
23 competitive in perfect competition and in the long run.
24 Any firm could enter, again, so that maybe doesn't reflect
25 the refining industry that we have in California now.

1 There is no uncertainty, right, so that doesn't reflect
2 necessarily the underlying volatility that exists in oil
3 prices and how that can drive prices at the pump as well.

4 And so we have on the vertical axis price, and on the
5 horizontal axis quantity, and three curves. The blue curve
6 is the marginal cost; right? That's the cost for a
7 particular firm to produce one additional unit of a good.
8 The red curve traces out average total cost.

9 To the left, average total cost is above marginal
10 cost. And the reason for that is because there are these
11 large fixed costs that we're talking about of making an
12 investment to become a refiner, and you have to amortize
13 those costs over the quantity that you sell. As you sell
14 more and more quantity, the average cost associated with
15 those fixed costs decline.

16 And eventually, if we think that it costs more
17 and more to produce an additional unit of the good, right,
18 as we bump up against the capacity constraints that
19 refiners may really have, right, or input costs associated
20 with production increase, we hit a point where the marginal
21 cost of production of producing that one additional unit
22 exactly offsets the average total cost of production.
23 That's the point at which a refiner in this case, or any
24 firm, is going to have totally covered the fixed cost of
25 investment that was required; right? This is where they're

1 breaking even.

2 And in the long run, we expect firms in
3 competitive industries to participate or to produce at that
4 break-even point. If they're making profits that exceed
5 this. That's going to be an industry that's enticing to
6 enter, and that's going to lead firms to come in. If
7 they're not earning sufficient profits such that their
8 marginal costs equal their minimum average total cost here,
9 that's going to be an industry that firms want to exit.
10 It's not going to be desirable to participate.

11 Our green line is demand; right? And so we
12 expect that the pressure of entry in a competitive market
13 is going to lead firms to enter up to the point where
14 they're just meeting that minimum average total cost. And
15 if other firms can enter, then we expect the demand that
16 any one firm faces is essentially going to be a flat line.
17 You can produce however much you want, you can sell at this
18 price, that's our market price, that's governed by
19 competition amongst many firms, or you cannot sell. That's
20 what a competitive industry in long run equilibrium with no
21 uncertainty looks like, but surely that's not the industry
22 that we have here in California.

23 Now, in the short run, sometimes there are
24 instances where markets are out of equilibrium, even
25 competitive markets. And so here we have an example where

1 demand, right, has risen above the intersection of marginal
2 cost and average total cost. Imagine this is a situation
3 where a refiner has locked in purchase agreements to buy
4 oil at a particular price, put a forward contract and
5 expectation of supplying the market with refined product,
6 and then suddenly the global price of oil jumps up.

7 Now from the refiner's standpoint, the
8 opportunity cost of using that oil as an input doesn't
9 reflect to the true cost that they paid, right, that
10 earlier price, but it should reflect the new or higher
11 price, recognizing that because oil is a storable good,
12 right, and because refined products are storable goods, the
13 cost of replacing the oil that they have on hand isn't
14 going to be the price they paid, but rather the price they
15 would have to pay today.

16 And so in those short run instances, when you see
17 big shifts in oil prices, we should expect to see that
18 captured as rents by a refiner. And so in the short run,
19 we can have these instances where marginal cost is above
20 average total cost, and that's not necessarily a red flag,
21 it's just the reality of the situation, you know? And
22 likewise, right, we can have instances where that price
23 would be below minimum average total cost in the short run.
24 And that would be the opposite story; right? A refiner
25 locks in a price, the oil price drops, and suddenly the

1 price of replacement is less than that, and the margin that
2 they're getting is significantly less than what you'd
3 expect in the long run.

4 Oil prices aren't perfectly forecastable. There
5 is uncertainty in this market, and there is risk that they
6 face, but our expectation is that over the long run, right,
7 that the marginal cost and average total cost that they're
8 paying should be about equal, right, so we should have an
9 equal number of high side instances and low side instances
10 around this sort of general gravitational point.

11 Now, again, those are competitive markets, and
12 now that's competitive markets with a little bit of
13 uncertainty, but that's probably not what we have here in
14 California.

15 And so you can see on the right side of my slide
16 here, we've got California oil refinery locations and
17 capacities. And you may not be able to make out the print
18 on that exactly, but the underlying takeaway is something
19 that's been referenced earlier today already, that really
20 there are five firms that dominate capacity in this
21 industry. And if you think about the concentration that is
22 associated with the shares of capacity that these firms
23 have, that's what, you know, economists or antitrust
24 lawyers tend to think of as a fairly concentrated industry.
25 It's not a monopoly; right? There's not a single firm, but

1 it's certainly not a competitive industry where there are
2 many firms that have no direct effect on price.

3 More likely what it is, is that any individual
4 firm at any individual time is pivotal, that is their
5 decision about how much quantity to produce is going to
6 have an impact on the total quantity available, and
7 therefore on the price that consumers have to pay.

8 And so to the left, this figure illustrates that
9 scenario. Now instead of having that flat line of demand,
10 right, where a refiner has no impact on price, they face a
11 downward sloping demand curve. And then the second curve,
12 which is somewhat interior there, is the marginal revenue
13 curve. So these firms are profit maximizers and they want
14 to make sure that the marginal revenue that they're earning
15 from production, the additional profit that they get, is
16 equal to the marginal cost of supplying that additional
17 unit.

18 Now from an economic efficiency standpoint, why
19 is that problematic; right? We want them to be producing
20 in the long run at where marginal cost equals minimum
21 average total cost, but where they're producing in this
22 scenario is interior to that, right, at this intersection
23 of Q and P of the dashed lines, and we can see there that
24 marginal cost is significantly below price. And the dashed
25 line, or sort of box that's filled out by -- or filled in

1 by economic profit, those aren't sort of profits as you and
2 I typically think of them, rather they're profits in excess
3 of what we would expect to see in a competitive market.

4 Why is profit in excess of what we should expect
5 to see in a competitive market problematic? It's
6 problematic because it means that there are fewer people,
7 right, who are able to purchase the necessities that they
8 need to go about their lives, right, and they're paying too
9 high a price for it. It's allocatively inefficient, and
10 it's something that we want to avoid.

11 And so one of the challenges here for this
12 industry is that it's clearly concentrated. We're seeing
13 instances where gross gasoline refining margins are
14 exceptionally high. And we're wondering, is this an
15 instance where we're seeing windfall rents associated with
16 declining oil prices and firms having locked in contracts
17 early on, or is this an instance where firms aren't fully
18 utilizing the capacity that's available to them in order to
19 profit maximize as opposed to welfare maximize?

20 And so as the State of California, as the
21 California Energy Commission, it seems like your goal is to
22 try and increase welfare by regulating prices in a way
23 that's going to benefit Californians broadly.

24 And so just to think about how that might work,
25 right, here we have this final figure, I promise, where we

1 have the price that a firm with market power would choose,
2 and then below that we have a regulated price. I say
3 regulated price, but what I actually mean here is a
4 regulated maximum gross gasoline refining margin; right?
5 So it's not going to be a price cap. Rather, it would be a
6 penalty associated with differences between the input
7 costs, including the costs of labor and capital and
8 transportation, right, all of the things that are necessary
9 to cover the production and transportation of
10 transportation fuel. And so the difference is between the
11 price that those refiners are earning in the market and the
12 costs.

13 And so you can imagine that by setting a penalty
14 associated with what the maximum gross gasoline refining
15 margin might be, that's going to change the incentives of
16 the firm. Now if they withhold quantity in this setup
17 beyond this point where MC equals demand, they're not going
18 to earn any additional profit, because the additional
19 profit that they would earn would potentially be extracted,
20 right, by the government as a penalty. That changes their
21 incentives; right? Their profit function is now different,
22 because when they withhold quantity, they don't earn
23 additional profit. They just lose profit in terms of the
24 difference between the cost of production and the price
25 that they're allowed to charge. This is the sort of

1 regulation that exists in the utility industries broadly.

2 This sort of regulation requires a lot of
3 information. It requires the regulator to understand the
4 cost structure of the firms. It requires the firms to
5 provide information about their selling prices, about the
6 quality of the services that they're providing, and about
7 their underlying cost structures. So I really encourage
8 you throughout this proceeding to pay careful attention to
9 the sort of information that you might be able to gather to
10 fill in the details of this picture.

11 So just, you know, to sum up with a few key
12 takeaways here, right, in the long run, competitive firms
13 should produce at a minimum average total cost, that point
14 where they're just covering their fixed costs, but not
15 earning exceptional profits beyond that. In the short run,
16 though, prices and profits can deviate from that. That's
17 not necessarily a source of concern, but if it's
18 persistent, that indicates possibly that firms in this
19 industry have pricing power.

20 Looking at California's petroleum refining
21 industry, it appears pretty concentrated. And so that at
22 least raises the question, to what extent are they choosing
23 quantities, not necessarily to maximize social welfare,
24 right, but rather profit maximizing quantities that deviate
25 significantly from what would be allocatively efficient?

1 And you can see that a price cap, right, can, if properly
2 designed, induce regulated firms to increase their short
3 run output.

4 I guess I would just underscore this last point,
5 which is that in the long run, of course, those capped
6 prices need to still cover the average total cost of the
7 investments that these firms have made; right? But with
8 proper information and guidance, it's surely something that
9 can be done.

10 Some final notes. Look, this has been a pretty
11 stylized presentation of a really complex industry with a
12 lot of additional players. And so as we move forward, I
13 would just offer these additional questions as food for
14 thought.

15 So do firms engage in other activities, right,
16 like hedging, that's going to affect potentially their
17 gross gasoline refining margin? Is that something that we
18 want? How would a penalty affect those decisions?

19 Do the firms produce other products that don't
20 face the same potential maximum gross gasoline refining
21 margin? And how would imposing profit cap on the
22 production of that particular product affect their
23 incentives to produce other products?

24 Do firms engage in other vertical arrangements?
25 So my second -- third slide showed this value chain where

1 there are many participants that had opportunities to
2 affect the price at the pump. This is clearly targeting a
3 large and important element of that value chain, but there
4 are others. And it's important to understand how this
5 element of the value chain interacts with those other
6 elements of the value chain in order to make sure that the
7 incentives you create are going to have the intended
8 consequences.

9 Finally, what's the opportunity cost of producing
10 gasoline in the short and long run? As we see
11 transportation-fueled demand in California decline through
12 policy, right, that's going to change the structure of this
13 industry as well. And so we want to understand how those
14 policy-driven changes would interact with this maximum
15 gross gasoline refining margin to make sure that the
16 incentives are aligned.

17 With that, I conclude. Thanks very much.

18 VICE CHAIR GUNDA: Thank you so much, Dr.
19 Zaragoza-Watkins. First of all, thank you for responding
20 to us and being here as a part of the discussion today. I
21 know we reached out to you pretty late in the game, and you
22 were kind enough to come and share your expertise,
23 especially with your expertise on energy transition and
24 markets. So thank you for adding your voice to it.

25 So I think I have a couple of high-level

1 questions, I think you already covered it, but if you're
2 able to expand a little bit more. One of the things we've
3 heard as a concern during the legislative process is if
4 there were to be a penalty, then the refinery industry has
5 to shut down or are kind of close, or those penalties, not
6 revenues, penalties that are going to be captured by the
7 state to then reinvest in the state could potentially be
8 passed on in other ways, too. So, you know, could you
9 speak about the eventuality of those statements and
10 anything that you might be able to help frame the question?

11 DR. ZARAGOZA-WATKINS: Yeah, absolutely. So I
12 think there are sort of two scenarios here.

13 One, in that second graph that I showed where,
14 for whatever reason, the producer was just enjoying rents
15 associated with having made some good decision earlier on,
16 the oil price that they paid was less than the current oil
17 price, and so in that instance, you'd see a gross gasoline
18 refining margin that was really high; right? And what that
19 reflected was true scarcity. I promise this is an answer
20 to your question.

21 In an instance where there is true scarcity and
22 refiners don't have an opportunity to increase output in
23 response to a penalty, then we should expect to see that at
24 the end of the day, prices will still be high for
25 transportation fuel in California because there's no way to

1 manifest more; right?

2 If what's actually happening is that there is an
3 additional opportunity to produce and that the gross
4 gasoline refining margin is reducing a refiner's incentive
5 to withhold capacity, then we shouldn't expect necessarily
6 to see those higher prices pass through. In fact, we
7 should expect to see lower prices pass through, right,
8 because the effect of the gross gasoline refining margin
9 penalty would be to expand quantity.

10 And so maybe the succinct version of that answer
11 would have been, it really depends; right? If the gross
12 gasoline refining margin has the effect of expanding
13 capacity, then we should see lower or at least no higher
14 prices. If it doesn't have the ability to do that, prices
15 will be what they are.

16 VICE CHAIR GUNDA: So I take it from your comment
17 that it's really important -- it's kind of important to
18 look at the data and figure out, you know, a structure that
19 allows for that eventuality of increasing the production or
20 increasing the competition, for lack of better words.

21 So one other piece there has been a discussion
22 around if, you know, there is no -- two pieces, I think.
23 One, from your observation as you talk about the
24 competitiveness of the market and the concentration of the
25 market, are there metrics that you observe? Like, you

1 know, for example, comparing that to elsewhere in the
2 country versus in California, do you observe statistics
3 around competitiveness, statistics around how much
4 production we're having, whether it's capacity? Anything
5 like that would be really helpful.

6 DR. ZARAGOZA-WATKINS: Yeah, absolutely. Off the
7 top of my head, I can tell you that California's refining
8 capacity is utilized less than the national average; right?
9 So that is to say that California refineries have an
10 ability to intake crude and output transportation fuels;
11 right? And what we see is that California has consistently
12 brought in less crude than it has the ability to refine.
13 And that's an indication of an industry that could be
14 exercising market power; right? That at least has some
15 inefficiency in it that could be wrung out.

16 In the longer run, again, I say it's really
17 important to collect data so that you can understand the
18 market structure. And there are some telltale signs,
19 right, in particular, pass-through, which is this idea of
20 how costs, input costs are passed through to consumers. In
21 concentrated industries, we often see that pass-through can
22 be in excess of 100 percent, particularly in industries
23 like transportation fuel, where the responsiveness of
24 consumers to price changes is very modest.

25 And so with proper data, you'd be able to analyze

1 different differences in pass-through rates. And a
2 telltale sign, again, would be pass-through in excess of
3 100 percent.

4 DIRECTOR MILDER: Just one question, Doctor.
5 From your slides, I gleaned it was critical to have
6 accurate data as to average total cost, because a firm may
7 leave the market if the penalty is set at the wrong level.
8 Do you agree with that takeaway? And if so, can you expand
9 on why it's critical to have accurate data in setting a
10 penalty?

11 DR. ZARAGOZA-WATKINS: Absolutely. Yes, I do
12 agree with that characterization. And fundamentally, the
13 reason it's important to have accurate data is because you
14 want to understand the incentives that firms face. We can
15 perhaps assume that firms are going to act in their own
16 self-interest, right, which typically means that they're
17 going to maximize profits in the short run and only stay in
18 markets that are profitable in the long run. If we
19 understand the profitability of the industry from the self-
20 reported data that's verified, right, to be accurate, then
21 we have a clearer picture of what the incentives are to
22 participate in that market. And from that, you can refine
23 a penalty structure -- because I couldn't help myself -- to
24 make sure that it's an attractive industry to be in, but
25 not one that's inherently inequitable.

1 VICE CHAIR GUNDA: Thank you. I think I have one
2 more minute. I could keep asking you a million questions,
3 and that's both taking me back to school, but also just
4 helps to, you know, think this through, you know, in a
5 public sphere.

6 So I think one specific question that kind of you
7 laid out is around the profit maximization versus welfare
8 maximization. And I, you know, really appreciate you
9 stating that because a part of the state's mandate here,
10 and I think the singular mandate for us, is public good and
11 figuring out how do we protect the consumers in a market
12 that's designed to operate, you know, in a well-functioning
13 market where people make profits.

14 Could you maybe comment a little bit on past
15 examples or current examples, as you see in energy
16 transition, that are kind of balancing this act between
17 profit maximization and welfare, and any examples, if you
18 are able to today, or we can continue to discuss, that the
19 state or the government has become a part of to help secure
20 that welfare?

21 DR. ZARAGOZA-WATKINS: Yeah, I can give lots of
22 examples of industries where government and the private
23 sector are grappling with these issues now, and it's
24 certainly common for government to play an active role.

25 We can think about just the electricity

1 generation industry, right, and kind of the radical effect
2 that renewable energy has had on prices in the wholesale
3 electricity market here in California, but really all over
4 the world. There, again, is an industry where electricity
5 generators are making big investments or big bets and
6 putting steel on the ground, and it's not going to go
7 anywhere. And yet, the marginal cost of generating
8 electricity with wind and solar, when those resources are
9 operating, essentially zero; right? And that's pretty
10 different from the marginal cost of operating a resource
11 like a natural gas-fired power plant here in California.

12 And if there are enough hours in the year or day
13 where those renewables are dominating the generation
14 profile, you know, it's possible that natural gas-fired
15 power plants and fossil fuel-fired power plants will not
16 have an incentive to participate in the short run or to
17 continue to stick around in the long run; right?

18 And so in recognition of that, regional
19 transmission operators have come up with capacity markets,
20 essentially as a side payment mechanism to cover those
21 fixed costs. I think those who are receiving capacity
22 market payments would argue that that's been an
23 instrumental part of making sure that they stay in the
24 market and keeping the lights on.

25 In contrast, Texas is an energy-only market. I

1 wouldn't say that capacity markets are the only reason why
2 Texas has experienced more volatility, but that's a system
3 where the state has decided that they don't want to play an
4 active role, and it's certainly a more volatile price.

5 VICE CHAIR GUNDA: Thank you so much, again, for
6 lending your expertise and look forward to your continued
7 engagement in this process.

8 With that, I'll pass it back to you.

9 MS. GUTIERREZ: All right. Thank you, Matthew.

10 We are going to move into our roundtable
11 discussion, which is one of the features of today's
12 workshop. I invite everybody that's on Zoom and in the
13 room to do a quick stretch break, because we will power
14 through.

15 And right now, I will invite Ethan Elkind to put
16 his camera on. He's the Director of the Climate Program at
17 the Center for Law, Energy, and Environment at UC Berkeley
18 and UCLA.

19 So, Ethan, we will go ahead and have you start to
20 introduce our panelists.

21 Panelists can come up to the table and we'll put
22 your tent card in front of you where you sit. If you have
23 a laptop with you, you will be invited to connect to Zoom
24 so we can get a close-up shot. If you don't, do not worry.
25 We will have a wide camera shot to capture all of you.

1 Thank you.

2 MR. ELKIND: Great. Well, thank you very much.
3 Hopefully, everyone can hear me. I apologize, I can't be
4 there in person. I had some last-minute schedule issues
5 that I couldn't move. So unfortunately, I'm going to be
6 chiming in here by Zoom, but really looking forward to
7 moderating this discussion. I just want to thank the
8 Energy Commission staff, Vice Chair Gunda, and everyone
9 involved for helping to organize this and making my job
10 hopefully easy.

11 So we've got a great panel here and a lot of
12 issues that I think are teed up based on what we just
13 heard. So I'm going to go ahead and introduce the
14 panelists one by one. I'm going to ask some general
15 questions. I may have some follow-ups. And then, of
16 course, we'll have an opportunity to hear from the dais,
17 and public comment following this as well.

18 So first, I want to introduce Cathy Reheis-Boyd,
19 President and CEO of the Western States Petroleum
20 Association. We're also joined by Connie Cho, Just
21 Transition Policy Strategist for the Asian Pacific
22 Environmental Network. We have Elena Krieger, who is
23 Director of Research at Physicians, Scientists, and
24 Engineers, PSE, for Healthy Energy. We also have Jamie
25 Court, President of Consumer Watchdog. You've already

1 heard from Matthew Zaragoza-Watkins, Assistant Professor of
2 Economics at Vanderbilt University, who will be joining
3 this panel as well. And last but not least, we have Mike
4 Smith, Chair of the National Oil Bargaining Program for the
5 United Steelworkers Union. So very pleased to have all of
6 you joining for this roundtable discussion.

7 And I'm going to kick it off here and we'll go
8 one by one. I'll have some general questions, as I said.
9 And the first question is: If the Commission is to set a
10 max margin with penalties, if that is exceeded, do the
11 benefits to consumers outweigh the costs?

12 So I'm going to start that one. I'm going to
13 direct that first to Cathy. I'll give you the chance to
14 start it off and then we'll go through one by one of all
15 the panelists to weigh-in. But the question is: Do the
16 benefits to consumers outweigh the costs?

17 So, Cathy, all yours.

18 MS. REHEIS-BOYD: Thank you. Thank you, Ethan.
19 I appreciate that.

20 And thank you, Commissioner Gunda and Director
21 Milder for having us today.

22 I do have to give one caveat. You're going to
23 have to just bear with me for one second, because WSPA does
24 not know and we don't have access to any confidential
25 business information of our members, and I do have no

1 information on how they would respond. What you're going
2 to hear from me today is my own opinion based on my own
3 experience, so that's my caveat.

4 So to this question of net benefits, or do the
5 benefits outweigh the costs, we don't think they do because
6 we don't think there are benefits, we think there are only
7 costs.

8 And I do want to address something that Executive
9 Director Drew Bohan did mention this morning, was we've got
10 to address the fundamental reasons for rising gas prices.
11 And in our opinion, that includes many, many things, some
12 of which we've talked about, but it's lack of supply with a
13 continued strong demand. It's an isolated market. We
14 don't have pipelines, crude, or products that come into the
15 state. We have expensive gasoline that certainly is the
16 cleanest on the planet but it takes a lot to make it. So
17 the spec is difficult. You heard how the governor took an
18 action to have the waiver be put in place and the prices
19 were reduced because the cost was reduced, understandably.

20 To get product here, or crude, it's 30 to 40
21 days on a ship, which increases costs and increases
22 greenhouse gas emissions. We know from information we
23 submitted to the docket that you have from Solomon
24 Associates, that Alaska crude is \$5.00 a barrel, Brazil is
25 \$4.00 to \$5.00 a barrel, Middle East is \$5.00 to \$6.00 a

1 barrel, and California crude from the San Joaquin Valley on
2 a pipeline is \$1.00 a barrel. So there is a direct impact
3 to cost and price at the pump from not producing crude oil
4 here in California, and we are blessed with a lot of it.
5 We just can't get permits from the state of California to
6 produce it.

7 Vessel availability, obviously impacted by
8 several of the wars that we have all experienced. We have
9 constrained ports. We've got constrained terminals. We've
10 got storage. We've got aging infrastructure in the state
11 that I am quite concerned investments are not being made
12 because there's no incentive to do so. That impacts price
13 and cost.

14 Permitting is very, very difficult. I already
15 mentioned the getting any new drill permits for crude oil.

16 The fact that the Commission has not stepped in
17 to local government who is reducing gas stations and
18 reducing competition is something we should seriously look
19 at, certainly in this period of where we are and where the
20 state would like us to go. And we know the policies
21 certainly have cost. Not that they are not meritorious,
22 but at least \$1.30 and \$1.32, as we've seen previously,
23 certainly impacts.

24 So if the CEC believes that capping profits is
25 the answer here, what is the acceptable amount? What is

1 the percentage? How are you going to determine that? And
2 are you going to apply it to all California corporations?

3 Because I'm going to give you one example that I
4 just read from a company, Zero Hedge. You might want to
5 look them up. Their whole job is to widen the scope of
6 available information in this space. I have nothing
7 against Google. Google made more dollars, more money on
8 less revenue and pays lower overall state tax rate than any
9 of my members, any of our members, with a net margin that
10 is double. So are we going to have a similar discussion on
11 other sectors that have a higher net margin or a higher
12 margin?

13 So if the CEC caps prices supply could be
14 restricted, it could cause rationing. It could restrict
15 growth, causing the economy to shrink and harm consumers.
16 So if you're looking at gross margins, it could easily
17 penalize refiners inconsistently. And if you're looking at
18 net margins, it equally brings the uncertainty for this
19 industry to supply the market 24/7, which is an enormous
20 task when you got 40 million people driving 36 million
21 internal combustion engines every single day. And we
22 invest in it all. We invest, as you all know, we believe
23 in an all of the above energy strategy and we do every one
24 of them, including electric.

25 The last thing I'll mention is we did submit to

1 the docket yesterday a literature review of profit caps and
2 price controls in the energy space done by Catalyst
3 Environmental Solutions out of Santa Monica. Please review
4 it, because they went through the history of actions taken
5 in the United States, in the UK, in Hawaii, all throughout
6 time that have not had any benefit to the consumer and, in
7 fact, caused prices to increase. So I do think it's
8 important to look at history and at least analyze what
9 they've put together in the complete literature search
10 we've submitted to you, because I can't find one that had a
11 benefit to the consumer.

12 Thank you.

13 MR. ELKIND: Thank you, Cathy. And I appreciate
14 your comment that, you know, you don't have access to
15 confidential business information.

16 I'm just curious, as a follow-up, have your
17 members shared with you any specifics about how they would
18 respond to a margin, a max margin, and a penalty?

19 MS. REHEIS-BOYD: Absolutely not. And we are
20 under very strict antitrust provisions with the State of
21 California, with the federal government. They would never
22 do that, nor would we ever participate in that kind of a
23 conversation.

24 MR. ELKIND: Okay. Appreciate that.

25 MS. REHEIS-BOYD: I would just add on the

1 electricity side, just because it was brought up, I'm going
2 to say Dr. Matt because I can't even think about how to
3 pronounce his last name but -- I thought Reheis-Boyd was
4 bad.

5 But the one part on the electricity side, utility
6 rates, you look at the electric -- and we're not, we're not
7 a regulated entity like the utility, so to compare the
8 refining industry to the electricity side is interesting.
9 But utility rates could increase four to nine percent
10 annually between now and 2025. And if you look at the
11 investment-owned utility profits, they have jumped sharply
12 up related to growth in the rate basis; right? Because
13 that's due to the infrastructure projects that are
14 approved, that goes right into the rate base, and it's a
15 guaranteed rate of return.

16 So the price tag for any initiative on the
17 electricity side, whether it's wildfires, grid reliability,
18 decarbonization, is increasing the electricity costs
19 dramatically. So more investment they make with a
20 guaranteed rate of return is going to increase electricity
21 prices. So we got to keep that in mind, as it's going to
22 increase the capacity in mind, as it's going to take two to
23 three -- two to five times electricity grid capacity that
24 we have today to meet any of these goals, according to a
25 recent Stanford study.

1 So it's both sides of the equation; right? It's
2 the investment in infrastructure we need currently in the
3 existing system, and it's the investment in infrastructure
4 we need on the energy evolution or the energy expansion
5 side. Both of those have to match up if we're going to do
6 this.

7 So I'm looking forward to the Fuels Transition
8 Study, Commissioner Gunda, because I think that's where
9 we're going to get to the real heart of how to increase
10 supply and minimize cost and increase investment.

11 MR. ELKIND: All right, let's have that same
12 question about the benefits to consumers outweighing the
13 cost.

14 Let's go to Professor Matthew Zaragoza-Watkins.
15 You can take the next crack at this one.

16 DR. ZARAGOZA-WATKINS: Sure. Can you hear me?

17 MR. ELKIND: Yes.

18 DR. ZARAGOZA-WATKINS: Hey, Cathy, right. So
19 Professor Matthew Zaragoza-Watkins. ZW is okay.

20 And, yeah, I guess going in reverse order there,
21 I think my reference to the electricity industry was
22 particularly wholesale market design; right? And so
23 that's, you know, before it hits the transmission system,
24 before it hits the distribution system, before we start
25 talking about SMUD and PG&E and their regulated rates.

1 But I think it's interesting to point out, right,
2 that when we think about utilities and those rising costs,
3 there is transparency there. And we know that the reasons
4 those average costs are rising is because there are capital
5 investments that are being made and those costs need to be
6 amortized. And we can decide whether the rate structure,
7 there's, you know, a whole other debate going on, right, in
8 California right now about whether the way that prices are
9 passed through to consumers is equitable, but it's
10 certainly transparent. I think that's important here.

11 So I guess what I would underscore, right, is we
12 need data. And I understand that it's not data that you
13 have, right, but data about what the costs are that are
14 necessary to support the continued operation of the
15 refining industry, to support the energy transition, and to
16 make sure that those costs are covered, but not necessarily
17 to allow for significant excesses beyond that, particularly
18 if it's coming as a result of firms exercising market
19 power.

20 With regard to price controls, I guess, again, I
21 would say that natural monopolies in utility industries are
22 a really good example where profit caps have been
23 successful; right? They don't provide perfect
24 economically-efficient incentives relative to a world in
25 which we have many firms competing aggressively in markets;

1 right? But in situations like California, where even
2 though it is the third largest market in the world for
3 refined product, it's one that's dominated by a few firms.
4 And the scope or the size of the investments that those
5 firms decided to make in order to refine that product are
6 large enough that it's not attractive to have other
7 entrants come in, right, and participate in that market.

8 You know, in settings like that, oligopolistic
9 settings, right, to use the jargon, I think we have seen a
10 lot of success, not necessarily with price regulation and
11 control, right, because as we discussed, there are lots of
12 things that are input costs that vary in ways that are
13 beyond the control of California's refining industry. And
14 so it's those instances where you rigidly control price
15 without necessarily having a dynamic system that accounts
16 for changes in cost, where you can get inefficiencies as a
17 result of price regulation.

18 But in instances here, where we're really talking
19 about capping profits, I think a careful data-driven
20 approach to that that doesn't disincentivize the long-run
21 investments that are required to make sure that the
22 industry operates effectively, but also doesn't necessarily
23 allow a few players to exert market power, it seems like a
24 balanced approach.

25 MR. ELKIND: Great. Thank you for that.

1 So I would like to give Jamie Court an
2 opportunity to weigh in on this question. So Jamie, go
3 ahead.

4 MR. COURT: Well, I think we got to remember why
5 we're here doing this now, which is that this is not a
6 normal market. It didn't work normally. And this is the
7 restoration we need.

8 Just going to other examples of other markets
9 where a profit cap has worked, you go to the electricity
10 crisis in 2000, which was precipitated by free market
11 reforms in '98, the price cap came in in 2001, and we went
12 back to normal prices and normal operations. If you go to
13 the insurance companies in California, they were way out of
14 control in the 1980s. Prices were going up 11 percent a
15 year, and we established what is effectively a profits gap.
16 They only allowed a reasonable rate of return. And for the
17 last 35 years, literally under the strong premium
18 regulation that only allows for a reasonable rate of
19 return, essentially a profit cap, the companies have done
20 better than nationally, but our premiums have stayed
21 relatively flat.

22 Go to the medical industry, the medical insurance
23 complex. The Obamacare reforms put in a medical loss
24 ratio. There is a 15 percent cap on costs and profits, and
25 it has worked to hold down insurance rates. When things

1 get out of control, it's up to government to step in and
2 make sure that prices work.

3 Now why specifically will this one -- will this
4 work? Because we know that the gross margins are way out
5 of whack in California with what they are in other parts of
6 the country. Just looking at the securities exchange
7 reports, we know they're like 30 percent higher here. We
8 know that the five refiners that control 98 percent of the
9 market take advantage of the market in all sorts of ways
10 that are unrelated to supply and demand.

11 And we know that the price is set on the spot
12 market. The spot market is a very unnatural market. At
13 the height of the crisis last year, Bob McCullough, an
14 economist, found that the spot market price, which
15 determines the retail price, was basically stocked for two
16 weeks and didn't change for two weeks. No spot market
17 transactions changed. That price was artificially
18 inflated. It didn't have to do with supply and demand. It
19 had to do with rigging this market.

20 So if we can take away the incentives for these
21 price spikes, which are always corresponding to a profit
22 spike, if you go back historically and align that refiner
23 profit margin, gross margin chart, the last slide that Drew
24 put up, put that together with the price spikes over the
25 last ten years, I guess, you will see they align perfectly.

1 The price spikes align with the gross margin spikes. So if
2 we can keep the top down, that will obviously save
3 consumers money. And if we can keep the margins within the
4 range of what they're making around the rest of the
5 country, which is all we're really trying to do, to keep
6 the margins within the range around the rest of the country
7 and within the historical margins, then there is every
8 incentive for these refiners to serve a market of 25
9 million drivers.

10 So I don't -- you know, I think that the fact
11 that we're here today dealing with this, you know, there's
12 obviously a history. Last year, we saw extraordinary
13 prices, prices that were \$2.00 more than the rest of the
14 country at one point. At that same time, we saw profit
15 spikes, gross margins spiking at the same time. And the
16 governor said, we've got to put a cap on that to keep those
17 prices down.

18 So I just don't think we should be looking at
19 this in a vacuum. We only got here because of the greed of
20 this industry, not unakin to what happened with Enron being
21 so greedy. And we're here to try to keep prices down for
22 consumers who, when prices go up by \$20.00 extra a gallon,
23 that's a lot of money for a low-income worker.

24 So I see it as a question of the industry forcing
25 us to be here. And if we can keep these margins within a

1 range that is consistent with historical norms and with
2 norms in other parts of the country, there's every reason
3 for these companies to do business here and do business
4 here on a reasonable basis, more reason places.

5 MR. ELKIND: Thank you, Jamie. And I know we've
6 got others to weigh in here. But since you mentioned the
7 reporting to the SEC, one of the questions that we had was,
8 why is it that refineries reporting to the SEC in their
9 1322 forms are different than what they're reporting to the
10 SEC? And this is even more evident when you look at
11 companies that only have California refineries. So I'm
12 wondering if anyone is in a position to answer that
13 question.

14 And, Cathy, I might look to you to see if you
15 have any knowledge there, or if anyone else on the panel
16 does.

17 MS. REHEIS-BOYD: Again, thank you, Ethan. I
18 don't have any knowledge of what companies have submitted
19 on what form you're referring to.

20 I know something associated with this question
21 was, if you're asking about whether, you know, diesel and
22 jet fuel make a difference in the net margins, I could say
23 that both of them are important to the bottom line. I
24 mean, every barrel of crude oil, you make gasoline, diesel,
25 and jet fuel in descending order; right? The diversity of

1 the fuel products provide outlets for that refined oil
2 barrel, that helps the reliability of supplying gasoline
3 barrels. So it's all tied together.

4 But I don't have any knowledge of what's been
5 submitted on 1322 form.

6 MR. COURT: I did a little research going back in
7 the SEC. I pegged consistently that SEC margins are much
8 lower than 1322 margins. SB 1322 is California gasoline
9 only. Part of it, I think, has to do with -- so,
10 obviously, part of it has to do with its western margins on
11 the SEC forms, not just California margins, but two of the
12 refineries, two of the refiners only have California
13 margins, so that doesn't explain it.

14 But if you look at the gross margins, for
15 instance, for the third quarter, the other thing is it's
16 amortized over three months, and we're getting monthly
17 margins for the -- under SB 1322. But the margins have
18 been over a dollar under SB 1322.

19 So the CEC website has the aggregate data that
20 goes behind the margins, and we can actually do the math on
21 it. And we did some of the math. So we basically took the
22 dealer tank wagon price, the branded-unbranded rack, you
23 subtract it from the crude cost acquisition on the volume-
24 weighted basis, and then you can subtract out the LCF and
25 the cap at the rack, and that's the gross margin. And the

1 gross margin comes out pretty close to what they're
2 reporting, it's like \$1.04 in August versus \$1.29 in
3 August, so it is relatively high.

4 And when you do the math, that is the most
5 perfect number because it actually accounts for all of
6 their costs, other than the operational costs of running a
7 refinery, which we can peg at maybe \$0.20, which is
8 something that is in the SEC report. So the SB 1322 data
9 is the most perfect data because it has a way of
10 backtracking and doing the math so you can see where
11 everything adds up.

12 We do have some concerns about how the refiners
13 are including spot transactions and bulk transactions. And
14 I think that's what's the difference between the \$1.04 we
15 came out with and the \$1.29 is. But the point is we're
16 getting great data now. SB 1322 opened up a whole new
17 world of data, very specific to California margins. And so
18 we are perfectly positioned to use that data to get the
19 gross refining margin established at a reasonable level,
20 because we know all the costs.

21 MR. ELKIND: Well, thank you, Jamie and Cathy for
22 responding to that.

23 If others want to weigh in, let me know.
24 Otherwise, I want to give Elena Krieger a chance to weigh
25 in on the initial question that we kicked off this round

1 with about the potential benefits to consumers outweighing
2 the costs.

3 So, Elena, I'll pass it to you.

4 MS. KRIEGER: Great. Thank you. So, you know,
5 as we saw this morning, as Drew presented, retail gasoline
6 prices have occurred simultaneously with the highest
7 refiner margins, which certainly suggests that capping
8 profit margins should help reduce some of those price
9 spikes.

10 And I wanted to follow up on something that
11 Professor Zaragoza-Watkins mentioned, which is that there
12 is limited competition in California, and there's likely
13 going to be increasingly limited competition. We expect
14 refinery production to go down and probably refinery
15 retirements alongside the decline in gasoline demand as we
16 go through the transition. And that means that the
17 industry is going to increasingly look like the power
18 sector or another natural monopoly that has decreased
19 competition, which to me suggests that regulation that
20 looks somewhat similar to something in the power sector,
21 like regulated rates of return or other kinds of price
22 regulations, might be a reasonable approach in order to
23 protect consumers.

24 But, you know, high stocks are hard to handle;
25 right? I think this is important. Lower-income

1 households, particularly those who have long commutes and
2 may not be able to afford electric vehicles, might not have
3 access to public transit, are particularly high -- very
4 vulnerable to high and variable gas prices. These same
5 low-income households are at increased risk during that
6 coming transportation transition as they face barriers to
7 efficient and electric vehicle adoption and cannot
8 necessarily afford to live near where they work, and also
9 have limited savings to draw upon to provide resilience to
10 price spikes.

11 We've discussed many times the potential risk of
12 reduced energy security and gasoline price volatility
13 during this transition as oil supplies are phased out
14 alongside electrification efforts. A cap on refinery
15 margins may help limit the exposure of those lowest-income
16 households to price volatility and price spikes.

17 I'm also curious, given some of the data that
18 Drew showed earlier today, showing that distribution
19 margins directly follow those refiner margins, like
20 increases, whether or not a cap on refiner margins could
21 have a ripple effect and limit that second price spike. I
22 don't know if that's true, but that seems like something
23 that would be worth potentially looking into and looking at
24 both of those potential margin impacts on price spikes.

25 And finally, I just want to note that this can't

1 be the only set of measures to protect low-income
2 households from high gasoline prices and price volatility.
3 But the data that we collect throughout this whole process
4 may be very valuable, and particularly trying to look at
5 where we see both high prices and high price spikes in
6 order to help us develop targeted interventions that would
7 enable us to support such things as electric vehicle
8 financing to enable lowest-income households to transition
9 away from fossil fuels.

10 Thank you.

11 MR. ELKIND: All right. Thank you, Elena.

12 So now, Connie Cho, I'll pass it over to you.

13 MS. CHO: Hello. Good morning, everyone, and
14 thank you for having me here. I am from the Asian Pacific
15 Environmental Network. I believe you've heard from my
16 colleagues Faraz and Ameer before. And while not completely
17 new to this conversation, it is my first time meeting some
18 of you here in person, so I just wanted to say hello and
19 thank all of the CEC staff for the incredible amount of
20 work that they've been doing to start this rulemaking
21 process and take on what is really a completely
22 unprecedented adventure for the oil refining sector.

23 At APEN, we organize with and work with refinery
24 communities, as you must know. And so when I answer this
25 question about benefits and costs, I think about benefits

1 and costs, of course, for whom?

2 And just to back up for a second, I want to start
3 with benefits of what are we really talking about. And
4 it's not -- and you know, I think up until more data comes
5 out, it will be this abstract notion of a penalty or a cap.
6 And while we want to streamline our work, I want to make
7 sure that this conversation doesn't happen in a vacuum.

8 And I do appreciate how the session today has
9 started with the broader context of a historic energy
10 transition to meet the climate crisis. It is this context
11 in which in-state California demand for oil is necessarily
12 decreasing. And that I've been seeing that California
13 refiners have become net exporters of refined oil.

14 One other important piece of context is that the
15 state's own Office of Environmental Health Hazards reports
16 have documented an increase in greenhouse gas emissions, an
17 increase in particulate matter and PM2.5 from refineries in
18 California communities. So I would urge the public and the
19 CEC to consider who will be served by a narrative of
20 artificial scarcity around the supply of oil, because we've
21 been seeing these emissions from refineries increasing, and
22 so refinery pollution, at least, is quite abundant in our
23 communities.

24 You know, the EPA data shows that in Richmond,
25 people living next to a refinery experience anywhere from

1 500,000 to a million pounds of toxic chemicals into the air
2 each year. And every few months, there's flaring at the
3 refinery. Last night, multiple flares had to flare through
4 the afternoon and late into the evening because of a power
5 outage on site, releasing greenhouse gases and concentrated
6 pollution into the air. Those who came over from the Bay
7 this morning or were around last night may have seen this
8 giant black plume over the Bay. It was visible from San
9 Francisco. It was visible from Marin County.

10 And I know we have many questions ahead, so I
11 just want to state that keeping oil companies honest is
12 going to be key to this energy transition. So to be able
13 to secure the avoided social cost benefits, the positive
14 health benefits from improved air and water quality, the
15 positive economic benefits of what our climate change
16 planning processes have told us we need, and thoughtful,
17 responsible regulation and holistic comprehensive planning
18 is going to be necessary in this energy transition to plan
19 for and plan around an industry that is already and will
20 necessarily be in decline despite desperate attempts to
21 keep a stranglehold on us.

22 So for benefits to whom, I would ask that, you
23 know, decision makers really consider the long arc of
24 structural environmental racism in this country. Poor and
25 working class communities of colors that live next to

1 refineries, oil wells, areas where there's fracking have
2 seen their neighborhoods become environmental sacrifice
3 zones. And that's why our communities have been leading
4 the fight against polluters to stabilize our climate for
5 decades.

6 In our work, we have found that these are not
7 innocent actors. There is a long trail of regulatory
8 noncompliance and violations in their history. It is an
9 open secret that refiners pay to pollute and pay to violate
10 laws in our communities. So while I appreciate that this
11 is another penalty being added or there's a consideration
12 of another penalty being added to the books, that the
13 conversation around oversight cannot be lost from the
14 discussion of this penalty as well.

15 MS. REHEIS-BOYD: Ethan, is there any opportunity
16 to weigh in or --

17 MR. ELKIND: Sure. Yeah, Cathy, go ahead. And
18 then I want to give Mike a chance to have the last say
19 here. So go ahead.

20 MS. REHEIS-BOYD: Okay. Great.

21 Elena, thank you for your comments. One
22 reasonable approach that I think all of us can hopefully
23 continue to discuss is to not lose another refinery.
24 Because I have been doing this 40 years, and I can
25 guarantee there was a boatload more than there are now.

1 And that's not a situation that we created, it's a
2 situation that was created because if you became
3 uneconomic, we had ExxonMobil leave, we've Shell leave, we
4 have BP leaving -- left. So this is a -- you know, when it
5 becomes uneconomic, you either sell, you look for other
6 opportunities, and that's what occurs when you have a
7 market that is what we have today.

8 I would also say that there are -- I just can't
9 agree, I'm sorry, Connie, with the assertions about our
10 refineries and our members pay to pollute, because I don't
11 agree with that in any form. If that were true, and the
12 emissions in our local communities were going up, I think
13 you would fire 34 air districts whose job is to make sure
14 that doesn't happen.

15 We just put in the South Coast, \$4 to \$6 billion
16 dollars on the issue of (indiscernible) in 1109.1. The
17 amount is similar and equal to the Bay Area, similar and
18 equal to the San Joaquin Valley. So the investments made
19 to reduce emissions in the state of California, if you talk
20 to any air district, there would be a good story, they're
21 not a bad one. So we support that. We continue to work on
22 that.

23 And, again, I just think, you know, there were a
24 lot more refiners in this state, and I hope we don't take
25 actions that reduce the few we have left.

1 MR. ELKIND: And Connie, I want to let you have
2 an opportunity to respond, but Cathy, this is a follow-up
3 on there. So is the idea that if a max margin and penalty
4 is established, I mean, you talked about refineries
5 closing, but would it be a situation that either the costs
6 would be passed on to the consumer, or would retail
7 stations close? What would you anticipate?

8 MS. REHEIS-BOYD: I don't really have a lens on
9 what I would anticipate there, nor do I have the experience
10 to answer that question.

11 I do know when things are uneconomic, decisions
12 are made for any business in the state of California,
13 certainly just not refiners. So, you know, we will have
14 less gasoline supply at the end of this year because of
15 certain actions to convert to renewable diesel instead of
16 traditional refineries. That will, I'm sure, be taken into
17 effect by the Energy Commission as you look at the
18 ramifications from that.

19 And, again, the idea that you can just simply
20 have ships bring in the net is a very complicated
21 conversation, because one, it takes time, and two, you've
22 got to have ports that are willing to take them. And as
23 we've seen, we have a lot of people who are willing to take
24 them. And as we've seen, we have congested ports. We have
25 other regulations, certainly meritorious, but CARB's at

1 Berth Reg is going to limit vessels, not increase them.

2 So as the Energy Commission puts this whole
3 picture together, again, I hope we really spend, and I know
4 we will, additional time on what it takes to invest in our
5 current structure, our current fuel supply, and what it
6 also takes on infrastructure, and also what it takes to
7 invest on going to a lower-carbon economy, which our
8 members are doing in every space that we're talking about.
9 So we have to look at both of those. We have to look at
10 pace and scale and time to match those up so that
11 California can go where it wants to go. And we are a part
12 of that.

13 And it just seems like we spend a lot of time
14 trying to have this industry, who is best posed to help the
15 state of California get where it wants to go, we spend so
16 much time trying to kick us out. And so I just hope we can
17 all, including the environmental justice representatives
18 here, I'm very involved in the 617 program with the Air
19 Resources Board on the blueprint, and all of that is very,
20 very important in the conversation, but we must continue to
21 talk about where we are, where we want to go.

22 And I do not believe, nor have I seen any
23 evidence in the comprehensive review we submitted to
24 indicate any kind of a cap on profit margins will do
25 anything beneficial in this area at all. There's a lot of

1 other things we can be doing, but that, in my opinion, is
2 not going to be helpful.

3 MR. ELKIND: Okay, let me give Connie just an
4 opportunity to respond if you'd like to what Cathy just
5 said.

6 And then, Elena, it looks like you'd like to
7 respond, as well, and then I will give the floor over to
8 Mike for last word on this question.

9 So go ahead, Connie, if you'd like.

10 MS. CHO: Only because it supports the benefits
11 conversation and only to that end.

12 It's lovely to hear about 1109 at the South
13 Coast. I was formerly actually a staff attorney with
14 Communities for a Better Environment, which worked very
15 hard to pass that rule on heaters and boilers. CBE has a
16 long history of working on establishing some of the best
17 pollution controls across the country in the Bay Area Air
18 District. We helped establish Rule 65 on cat crackers.
19 And unfortunately, at every turn, refineries did, tooth and
20 nail, but are pleased to hear that they will be
21 implementing these rules.

22 The large reductions in pollution that come from
23 these equipment-by-equipment rules that communities
24 organize around really come from the fact that despite
25 these pollution controls, they continue to be the largest

1 industrial polluters, the largest stationary source
2 polluters. And in many cases, depending on where you're
3 cutting the lines geographically, even in major highway
4 transportation corridors, where there are diesel trucks
5 running through and ports nearby, refineries remain the
6 largest sources of pollution.

7 MR. ELKIND: All right.

8 And then Alaina, any follow-up thoughts on this?
9 And then we'll go to forward to Mike.

10 MS. KRIEGER: Yeah, I just wanted to respond to
11 that comment from Catherine, which is gasoline supply
12 should go down. In-state demand has decreased 20 percent
13 in the last five years. And at the end of the day, we need
14 to transition entirely away from the fossil fuel system to
15 support our climate goals, which includes transitioning
16 entirely away from refineries. It's unrealistic to think
17 that all of California's refineries will or should stay
18 open. And so we have to think instead about managed
19 decline and orderly retirement alongside that ongoing
20 reduction in demand.

21 The key is going to be able to do this while
22 maintaining affordability and also supporting goals such as
23 reducing air pollutant emissions in some of our most
24 overburdened communities.

25 MR. ELKIND: And we'll definitely delve into some

1 of those issues if we have time on this panel.

2 Mike, thank you for your patience. You get the
3 last word on this question, so go ahead.

4 MR. SMITH: Thank you. So I'm the Chair of the
5 National Oil Bargaining Program for the Steelworkers. We
6 represent about 30,000 oil, gas, chemical workers in the
7 U.S., including about 4,000 to 4,500 here in the state of
8 California, which used to be much higher. We've seen a
9 trend, not just in California, as the other panelists
10 mentioned, the shutdowns of the Marathon in the P66
11 refinery in central California recently. But we've seen
12 that throughout the United States. We've seen a couple in
13 Louisiana, Pennsylvania. A couple even in Texas have
14 announced shutdowns. So we're seeing that trend
15 nationally.

16 When I read the question -- let me step back.

17 We, also, we understand, I think as a union, what
18 the future looks like and we're trying to be a responsible
19 partner in that. We bargain with the industry nationally
20 and set kind of a pattern. We brought a partnership
21 proposal on decarbonizing -- helping decarbonize the
22 industry, at least to try to figure out our role in that.
23 So we are a union, we think, that are looking forward.

24 Now the cost to this, the benefits versus the
25 cost, like it was said, I don't know what decisions the

1 employers are going to make. I know day to day we battle
2 to help improve safety in our facilities, invest in safety,
3 anything that adds to that or adds to the difficulty or
4 gives another reason why they wouldn't do that is obviously
5 concerning to the workers.

6 We also would like to see them invest in low-
7 carbon solutions in our facilities. And I think anything
8 that would add volatility to that, or at least be -- I
9 don't want to say add or be an excuse or add volatility to
10 that, is a concern for the workers. We know the trends.
11 We see the charts.

12 We also are concerned with anything that
13 accelerates that decline or that accelerates the closing of
14 our facilities, especially since the state -- I mean, while
15 there is a displaced oil worker and gas fund, how minimal
16 that is, we don't really have a plan how to deal with the
17 workers, the communities in the surrounding areas and the
18 amount of family-sustaining jobs that our members have
19 enjoyed and fought for, you know, 80, 90 years,
20 specifically here in California.

21 So it's a tough one. This is. It's kind of a --
22 you know, our members are consumers as well. We pay high
23 prices here in California as well. But it also, you know,
24 going forward as this discussion happens, it's got to be
25 responsible. There's so many different factors as workers

1 in this lane that have to be taken into account to prevent.
2 Now all this is based on assumptions of how the industry or
3 each individual refiner will react to this, so --

4 MR. ELKIND: All right, great. Thank you, Mike,
5 for that.

6 So I want to go into some specific questions here
7 for the panelists. And the first one is that we know that
8 we've got just a few entities here in the market. We've
9 got five companies producing more than 90 percent of the
10 supply. And so how can we ensure that price fixing is not
11 occurring? What kinds of reforms should the state put in
12 place, if any, to ensure that we aren't seeing
13 manipulation?

14 And, Cathy, I wanted to direct that question to
15 you to start. And also, Cathy, I know you had said that
16 you were not being able to access confidential information
17 from your members. And that, of course, makes sense.

18 I would just note that the CEC did invite a
19 refiner to attend. And the refiner declined, stating that
20 they were deferring to you as a trade association. So, you
21 know, we've got a little bit of a challenge of getting
22 information if they're deferring to you and you're saying
23 we can't get information from them. So I guess that's a
24 two-parter. So I apologize for that.

25 But I guess first question then, maybe you could

1 address that issue about how we can get accurate
2 information on these questions, and the second one, what do
3 we do to ensure that we're not seeing any sort of price
4 manipulation given the control of these five companies over
5 90 percent of the market?

6 MS. REHEIS-BOYD: Now, well, thank you, Ethan.
7 And on the first one, as you know, I'm going to use a
8 really technical term, we are submitting boatloads of data
9 to the CEC. We did petition the Energy Commission three
10 times for a rulemaking. We feel that that would have
11 provided an opportunity to have the kinds of conversations
12 that one needs to have in this kind of a complicated
13 conversation. We were denied three times for that. We
14 still think that is an appropriate approach to get to some
15 of the questions that are being raised in a proper
16 rulemaking process.

17 Relative to the issue -- and you only -- why you
18 only invited one refiner, I have no idea. I only got my
19 letters, so that's all I know.

20 But how can we ensure price fixing is not
21 occurring? It's really simple. It's illegal. We don't,
22 our members don't participate in illegal activities,
23 especially in the area of antitrust, which is the most
24 critical sensitive area that one could possibly be
25 discussing. So there are numerous attorney general

1 investigations that have all concluded there is not any
2 engagement of this industry in price fixing.

3 So I do believe the real question is how do we
4 keep the refiners that we have here so that we can supply a
5 reliable, affordable market while we look at, we call it
6 the energy evolution or the energy expansion, I don't
7 believe in the word transition because I don't think we are
8 transitioning from one to the other, it's everything, all
9 of the above, and it's going to take it all.

10 And I would like to say that our members are
11 investing. I am extremely proud of the investments, to
12 your point, Elena, in all of the issues you've raised,
13 biofuels, renewable natural gas, renewable diesel,
14 hydrogen. We haven't even having touched carbon capture
15 sequestration because that's a whole-day discussion. That
16 has to happen to meet carbon neutrality goals in this
17 state. And we are -- we have a foot in every one of them,
18 including electricity.

19 And let's not all pretend that any energy source
20 doesn't have issues associated with it. Electric vehicles
21 have issues. Batteries have issues. Rare minerals, where
22 are we going to get them, have issues. Everything has
23 issues. Traditional oil and gas has issues. They all have
24 things to be solved. So it's not just this industry versus
25 everything else. It's how do you look at the lifecycle

1 analysis and make the right choices so that you can get
2 from here to there.

3 So that's -- I know it's a long answer to your
4 question, Ethan, but the basic one is we're not
5 participating in that, and it's illegal to do so and we
6 never will.

7 MR. ELKIND: All right, thank you, Cathy.

8 Jamie Court, I wanted to let you answer that
9 question around assurance that we're not seeing any sort of
10 price manipulation given the concentration.

11 MR. COURT: Well, price fixing and antitrust
12 issues, I mean, to prove an antitrust violation, you have
13 to show that there is a tacit agreement among refiners and
14 they're working on that tacitly to control the price or to
15 restrict the supply. And there's a lot of circumstantial
16 evidence. A lot of it's on the record in the case in San
17 Diego that was recently dismissed. It's a very high hurdle
18 to get to show refiners that don't operate particularly
19 transparently have met in a smoky back room and decided
20 that they're going to fix the supply.

21 But the way the market works, there is ability
22 because of the shared information, and there's a tremendous
23 amount of shared information. I know they're not sharing
24 with Cathy, but they share a lot of information, an
25 unbelievable amount of information about their supplies,

1 about the storage facilities. They have trade agreements.
2 They work in concert, there's no question. Is it a tacit
3 agreement? No one's been able to prove that.

4 But that's why we created this price gouging
5 penalty to create an opportunity to say that when
6 something's gone off kilter with the market and prices are
7 out of whack with national prices, profits are out of whack
8 with national profits or historical profits, that that
9 would be a disincentive for these companies to do what
10 they're doing, which is, I believe, limiting supply in
11 order to drive up price.

12 You know, we talked about the refiners being
13 driven out of California. There's another story to this,
14 and we're going to put some of this on the record when we
15 file our written comments. There was a memo, a very famous
16 Exxon memo, where Exxon talked to another big refiner about
17 keeping out a small refiner from opening because they
18 wanted to control the market. There is a lot of evidence
19 that these refiners have consolidated the market, kept out
20 competition, and they do it all the time in terms of the
21 apparatus they have for distribution.

22 After the Exxon Torrance refinery went down in
23 2015, there was a great need to bring in supplies of
24 gasoline. There were ships available, there were supplies
25 available, and it took forever to get a shipment of

1 gasoline here, and that's because the companies work
2 together to keep the market running so that there'd be no
3 gas lines, but so that the price was \$1.50 higher than the
4 U.S. gas price, and it stayed like that for a long time.

5 There is all sorts of anti-competitive actions in
6 this industry that we can point to, but does it rise to the
7 level of an anti-trust violation? That is a very, very
8 high threshold, so I don't think we should be looking at it
9 through that lens. We should be looking at the impact on
10 the consumer when companies don't work to compete, but
11 instead cheat by working together.

12 MR. ELKIND: Thank you, Jamie.

13 and Dr. Zaragoza-Watkins, I wanted to direct that
14 question to you, as well, about how we can ensure that
15 we're not seeing price manipulation given the concentration
16 of market power in a few companies.

17 DR. ZARAGOZA-WATKINS: Well, I agree with Cathy,
18 and I agree with Jamie.

19 MS. REHEIS-BOYD: Well, you're a professor.

20 DR. ZARAGOZA-WATKINS: That's right. It's
21 illegal to collude, right, and the bar for identifying what
22 collusive activity is, is very high. But it's not illegal
23 to exercise market power; right? It's not illegal to make
24 lots of money when you're a monopoly. But that doesn't
25 necessarily mean it's desirable either, right, or that it's

1 the only solution to organize production.

2 I think really what we're here talking about is,
3 does it appear as though the consolidation of the industry
4 driven by, you know, maybe the organization of that
5 industry as well as external factors and the transition to
6 alternative sources of transportation fuel, let's say,
7 whether that's created a situation where firms have an
8 opportunity to exercise market power, which is currently
9 entirely within their purview in a way that's undesirable;
10 right?

11 And, you know, to that end, I think that we need
12 to collect data, which we're already doing, that identifies
13 the costs that those firms face to identify how those costs
14 are passed on to consumers in the form of reformulated
15 gasoline, right, and whether the differences between the
16 costs that they pay and the prices that they earn, the
17 revenue they take in, is significant, significantly
18 different maybe from what you would expect to see in a
19 competitive industry, significantly different from what
20 you'd expect to see in the current concentrated industry
21 that we have; right?

22 And for what it's worth, if it turns out that
23 those profits are excessively different from what we'd
24 expect to see in the existing market structure, well, then
25 that may be a source of additional concern, right, because

1 a monopoly is going to earn more profits than an oligopoly.
2 And that's one of those circumstantial leases of evidence
3 that might suggest more is going on than just imperfect
4 competition; right?

5 And once you have a sense of whether what you
6 have going on is just imperfect competition and firms
7 exercising market power, and you understand what the
8 investments that those firms have had to make and what
9 investments you hope that they'll continue to make down the
10 line, you know, then you can have a very sober and
11 thoughtful discussion about what the gross margin should be
12 in order to get the sort of transition that you want. But
13 again, that requires information about costs and revenues
14 and understanding how those costs are passed through all
15 along the supply chain, right, in the transmission network,
16 in the spot market, at the jobbers, at the retail point.

17 And for what it's worth, also understanding the
18 incidents; right? Because I'm sure, Michael, you'd like to
19 know when profits rise at these refineries, how does that
20 change wages? Surely, it's not one-to-one. So, you know,
21 what's the story there?

22 Anyway, thanks.

23 MR. ELKIND: All right. Thank you for that.

24 Unless there's any other thoughts on this
25 question, I wanted to pivot to a question around the

1 affected communities. Industry talks about how this
2 transition is going to bring volatility to the market. So
3 the question is: How do we protect affected communities
4 from the downsides and the risks of this volatility and the
5 transition as a whole?

6 So, Connie, I wanted to let you take the first
7 crack at that question.

8 MS. CHO: Thank you. Yes, our communities are
9 refinery communities, and they are also the low-income
10 customers who are stuck right now on gas-guzzling cars,
11 driving those to soccer games where all the kids have
12 asthma, driving to church and temple where we're praying
13 for those with autoimmune disease, respiratory illnesses,
14 cancer, disproportionate amounts to three times higher than
15 their white neighbors in a county or a neighborhood further
16 away from the Richmond refinery. We're driving our aunties
17 to hospital visits in these gas-guzzling cars, also to
18 funerals where we're burying people too young, too early,
19 and too often.

20 So we care about the cost of gas. And EJ
21 communities have been having these conversations about what
22 we do about these price shocks in this transition. But
23 that's why we're fighting for 100 percent zero emission
24 transportation and decarbonized mass transit for equitable
25 electrification and alternatives. That's why we engage on

1 the demand side. That's why we are building out local and
2 distributed 100 percent renewables to clean up our grid and
3 to clean up the power supply.

4 You know, Professor Emily Grubert, who used to be
5 at DOE, calls this period the mid-transition, where we're
6 still on gasoline and struggling to make sure that we can
7 clean up our systems as fast as possible, and really
8 predicts that there will be price shocks along the way.
9 And so all we can do is have these types of processes where
10 we are building in consumer protections while making the
11 transition as fast as possible and equitably as possible.

12 To that end, you know, the conversation on supply
13 and demand and the margins here, the details are incredibly
14 important, so I'm not trying to minimize them, but I will
15 say, you know, I want to make sure that conversation is
16 going to happen, or the details will be determined with the
17 understanding that there is an entire world of demand-side
18 transition that is happening at the same time.

19 And also the legislation in this mid-transition
20 period, the legislation also calls for, and we'll get to it
21 later next year, the CEC will, you know, help lead on this,
22 the key component of that transition is the multi-
23 stakeholder, multi-agency collaboration workgroup to
24 identify how California will responsibly plan for this
25 transition, so that communities and workers will be leading

1 voices, that we're going to look at refineries, refinery by
2 refinery, you know, who are the different -- like how many
3 workers are at each of these refineries? What are the
4 throughputs at these refineries? What are the make-ups at
5 these refineries? What are the products that are coming in
6 and out?

7 And, also, the CEC data that's being gathered
8 here will hopefully help shape that conversation and help
9 communities and workers understand. Especially the import,
10 export, crude, and refined source destination data, I
11 think, is particularly helpful for us to understand where
12 to prioritize localized planning. And as we do regional
13 and state planning as well, there are processes at the
14 county levels or regional levels through the High Road
15 Transition Partnership, the Community Economic Resilience
16 Fund.

17 So this particular penalty conversation does not
18 have to solve all of the problems related to supply and
19 demand of oil, just ones related to protecting consumers.

20 MR. ELKIND: Thank you.

21 And, Mike, same question to you around protecting
22 affected communities, given your membership.

23 MR. SMITH: Well, I think during the last, I
24 think, the last time I was here around the table, we talked
25 about, you know, what we see, you know, whether it's a

1 transition and evolution, the new energy world. We can go
2 based on experience from us. I mean, we've -- when we get,
3 you know, a refinery shut down, it's not a smooth, you
4 know, like the graph chart that goes down, you're going to
5 see between 150,000 or 250,000 barrels a day go off the
6 market. That shutdown, I mean, you saw, as the example
7 earlier, with Torrance in 2015, a spike in prices for a
8 while. You saw it with Chevron in 2012. When you have a
9 refinery that size go offline just for a period of months,
10 it's a huge impact, so I would anticipate, you would
11 probably see similar to that.

12 You know, as far as our workers, we've seen the
13 devastation of what that looks like to our working
14 community, as well as the communities around the
15 facilities, with, you know, loss of jobs. Even in a
16 transition world, where we've seen the investments towards
17 renewable diesels or total renewable facilities in the
18 state, we've seen a pretty significant job loss in those
19 transitions.

20 So as far as affected community, as far as how we
21 look at it, and I'd go back to what I said earlier, there
22 still really isn't a plan on what to do with the workers,
23 the sustaining jobs, I mean, the legislation, and there's
24 plenty of legislation out there that is impacting the
25 industry, but we haven't seen kind of what that plan is

1 going forward. We think that investing in the facilities,
2 working on low-carbon solutions, carbon capture, air
3 direct, air capture, some of those ideas are important for
4 our facilities for the long run. I think they become
5 viable into the future for much longer, and we'd like to
6 see a lot more of those investments here in the state of
7 California, especially given the climate.

8 But as far as the transition, how it can be done
9 without having a negative impact on specifically the
10 communities in which I think are the concern is going to be
11 really tough, just from the examples we've seen in the in
12 the small examples of taking a large amount of barrels
13 offline here in the state. I mean, it would be real tough,
14 and I think it's going to have to be thoughtful. I think
15 it's going to have to be an investment into the future,
16 into the current facilities, to make sure that the
17 production is both ways. It can't be we're just -- you
18 can't turn off the lights in one room and turn them on in
19 the other. I don't think that's a good plan.

20 But we're also, you know, looking to partner with
21 employers and partner with them as far as what the future
22 of the energy world looks like in our current facilities
23 with our current jobs, stuff like that.

24 MR. ELKIND: Thank you, Mike.

25 And we're just about out of time here for this

1 panel before we hand it back over to the dais. But, Elena,
2 I want to let you have the last word on what we can do to
3 protect affected communities from the downsides of the
4 transition.

5 MS. KRIEGER: Great, thank you. So as I
6 mentioned earlier, I think we do have an opportunity in
7 this proceeding and in this data collection effort to track
8 high gas prices, fluctuations, and combine this with
9 affordability data, with income data, and with things like
10 average commute distance in order to develop a couple of
11 policies, like Connie mentioned, because we're not going to
12 solve everything with a cap right now, and design targeted
13 intervention for some of the most vulnerable populations,
14 and that might be public transit, that might be housing
15 strategy, and things like electric vehicle infrastructure.

16 You know, one thing that I do want to highlight,
17 though, is that there are a lot, you know, there are a lot
18 of barriers for low-income households to transition. We've
19 talked about this before. And even when there's a lot of
20 incentives, a lot of those are hard to access as well. A
21 lot of them come from different agencies, they're in
22 different kinds of places.

23 So I want to put on the table that we should
24 really think about sort of stacked incentives that are
25 available to people. So maybe we identify those targeted

1 communities with the data collection we just talked about
2 now and we figure out how to do a buyback program if they
3 have low income, if they have inefficient cars. We provide
4 financing for them to get an electric vehicle, and then we
5 support them getting a charger either at their apartment
6 building or at their house; right? And instead of having
7 all of these different possible barriers, let's try to
8 think about some kind of wraparound policies that will
9 enable them to, you know, transition all at once.

10 And finally, the last thing that I wanted to note
11 is, again, this is part of a really broad transition
12 conversation. And there are a lot of different things with
13 electric vehicles. There's a lot of other things that
14 Catherine, for example, just mentioned on the table as part
15 of this transition. And I want to make sure that we think
16 about the risks of any of the technologies that might be
17 considered. I'm concerned about methane leakage associated
18 with biogas. I'm concerned about on-road emissions
19 associated with biodiesel. I'm concerned about how we
20 define green hydrogen and what opportunity costs are of
21 producing and using green hydrogen in various applications
22 compared to other pathway options.

23 So again, none of this exists in a vacuum. And
24 so I think we need to think about all of these things
25 really holistically, how it aligns with our other sort of

1 agencies' efforts and things like that across the board in
2 order to both, you know, improve energy affordability,
3 rapidly transition away from fossil fuels, and reduce
4 emissions in some of our most overburdened communities, and
5 support work with these transitions as well.

6 MR. ELKIND: Great. Well --

7 MS. REHEIS-BOYD: Ethan, the only thing I would
8 add from our perspective in this topic is it's nice to end
9 on something that I think we all agree on, which is how
10 important all the voices at this table are, because
11 everybody's bringing a unique perspective, and especially
12 from our friends in the unions and the trades, a unique
13 perspective, even you, Jamie.

14 But I would say for the lessons I've learned in
15 617 and that process of the community steering committees
16 and what they've brought to the table has been very
17 impactful. And so I think one of the things we can
18 continue here is just, you know, continue to bring the
19 stakeholders together in a process. I hope we ever get our
20 advisory committee together under SB X1-2 that's in the
21 statute, but I think that's where we'll have some really
22 beneficial learnings from everybody on what this is going
23 to take and how complicated it is. It's just not, as you
24 said, it's not a turn off here and start here.

25 So I'm encouraged at least on the topic we're

1 ending on.

2 MR. ELKIND: Well, I want to thank all of you for
3 this discussion. I appreciate your standard and insights.
4 It's not over yet. I'm going to hand it over now to the
5 dais for some further comments and questions, but this will
6 conclude our formally facilitated part of the roundtable.

7 So over to you, I believe, Vice Chair Gunda, who
8 will take it from here, but I'll leave it to the dais.
9 Thank you.

10 VICE CHAIR GUNDA: Thank you. First of all,
11 thank you, Ethan, for moderating that and being a really
12 good facilitator on a conversation that's oftentimes really
13 difficult. So thank you for facilitating that.

14 I think, you know, there's a few kind of comments
15 I want to just share. I just want to thank each and
16 everybody who agreed to be on the panel and share your
17 perspectives. I think it's extremely important for a state
18 agency to be able to have credibility to hear all
19 perspectives and honor those perspectives and see what's
20 the truth, what's the shape, and then figure out how to
21 move forward with the work we do.

22 You know, I think I wanted to -- I know we're
23 running out of time, but so I at least wanted to have one
24 question on the table from each one of you. And I think it
25 goes directly to the role of the state agency and making

1 sure that we do as good of a job as we can do; right?

2 So I want to just, you know, uplift the staff
3 that are here who work tirelessly to do the right thing for
4 the State of California, but we don't do everything right,
5 you know, and we oftentimes miss pieces, not because we
6 want to, but because of resources, because of, you know,
7 our own limitations in terms of ability to process
8 information.

9 But putting that aside for a second, I kind of
10 come to you in this good-faith ask of, you know, how do you
11 see -- this is going to be a very difficult conversation.
12 This is not a straightforward conversation. Each one of
13 you offered a large perspective that's wholistic, but not
14 necessarily narrow enough to straight out solve this
15 problem tomorrow; right? I mean, because you understand
16 and recognize how big this is, except. And I think Jamie,
17 who has a very clear kind of interest in this area, you
18 know, you all, the rest of you come with like a larger
19 perspective of the transition.

20 So I just wanted to ask you, how does CEC create
21 a venue for you to not only extend your perspectives, but
22 also get information from us and create venues to be able
23 to have discussions that allows you to meaningfully
24 participate in this? So your perspectives are well
25 informed. You know what the data we are seeing.

1 Obviously, we have to balance between the anonymity and
2 protection of data. So one thing we don't want to be in
3 trouble with, around Elena's, you put out too much data, so
4 now we're going to sue you for putting the data out. But
5 we want to maximize putting the data out; right?

6 So we would really want to welcome you to like,
7 how do we create a venue to move past any discomfort we
8 might have with each other's perspective, but really solve
9 this issue? Like, you know, and I would start with, you
10 know, Professor, with you, if you want to start, and then
11 we'll just go down the line.

12 DR. ZARAGOZA-WATKINS: Yeah, absolutely. So I
13 mean, my bias is going to be to put out as much data as you
14 can in as granular detail as possible. And, you know, it
15 is an interesting question. Data is fine, but you have to
16 have the frameworks in place to interpret those data, to
17 understand, you know, what they mean. And for a lot of
18 people, you know, a lot of data can be really overwhelming.

19 And so you know, again, in a self-serving sort of
20 way, I would say that it's important to partner with other
21 state agencies and institutions that have the capacity to
22 digest and interpret those data and continue to produce,
23 you know, products that allow people to broadly consume it
24 so that they can weigh it in an informed way.

25 VICE CHAIR GUNDA: Thanks.

1 MS. KRIEGER: I think I'll say something very
2 similar in terms of the need for partnership, but also to
3 share that data, because CARB is collecting a lot of data;
4 right? And, you know, there are researchers looking at
5 health outcomes associated with the refineries. And there
6 are all sorts of other ways that we can, I think, couple
7 data across agencies. That would -- right now, every time
8 I go look for it, I have to look for one thing here and one
9 thing here and one thing here. And so whatever role would
10 be possible to pull those together to help tell a story, I
11 think, would be really powerful.

12 MR. COURT: Yeah, I agree, data transparency is
13 what you really need to do. And we've talked about this,
14 but I won't want it on the record, you know, the SB 1322
15 says within 45 days, all data shall be posted. It doesn't
16 say it shall be unposted. But we have only, for instance,
17 the aggregate data for August, because it replaced the
18 aggregate data for July. I'd really like to see this
19 agency get all the data for the past six months that was on
20 the site, back up on the site, and more.

21 I was reading SB X1-2, I got my copy here, and it
22 does say, you know, that the agency can do its own analysis
23 on net refining margin and gross refining margin based on
24 the data it receives. So I'd like to see it do that, too.
25 I know you've got a lot you're dealing with. I'm not

1 saying you're not working hard, but I do think investing in
2 that data transparency, investing in analysts who can put
3 out, your double checking the math on gross refining margin
4 and net refining margin would be very, very helpful, and
5 certainly restoring the data that's been taken down as soon
6 as possible.

7 MR. SMITH: I'll keep it simple. I agree. I was
8 going to say data transparency. And as we approached, just
9 like we did with health and safety here in the state a few
10 years ago, with, I mean, we pushed for more transparency
11 and involvement in the process, kind of take down the
12 curtains on how safety and health decisions were made in
13 the industry. I think that transparency will help show
14 where things are. I think that's the one. I mean, we've
15 heard the statement that, you know, they just don't do it,
16 and hopefully they provide that data, and it's not there.

17 I think transparency is important, and as much
18 data as possible, I think, is great, but it has to also be
19 brought in with clarity, with telling the story, with being
20 able to put it all together and kind of all speak the same
21 language to start before we can kind of move forward.

22 MS. CHO: Well, I'll say that my earlier comments
23 were more closing comments, and just so that my organizers
24 and comms and the other staff at APIN don't get upset with
25 me for being really granular right now, but you know, the

1 air districts, we've been having battles over CBI for a
2 long time there, and I think they might have a lot of
3 experience to share.

4 I think that aggregating this data is really
5 important, and I just want to give credit to the humility
6 of this question, and to hopefully continue that trend in
7 just asking for what you need in partnership on designing
8 formats for further discussion and convenings and timelines
9 of this work. We understand your building and
10 infrastructure to be able to manage this unprecedented mid-
11 transition period, so really appreciate the work here.

12 MS. REHEIS-BOYD: Thank you, Connie, because I
13 think you summarized that really, really well. I like how
14 it was framed in figuring out how to continue collaborative
15 opportunities, collaborative process, I'll give some
16 thought to what that could look like, but so that we can
17 continue to weigh in in an informed way.

18 And I can say, I mean, I would take a page out
19 of -- we don't have the time that 617 provides, but that
20 kind of a forum of participants that relationships are
21 built over time, trust is built over time, information is
22 shared, you get to the best possible solutions you can.
23 And it's not easy. It's a lot of work, and you got to show
24 up, and you got to keep talking and learning.

25 And I've learned a lot through that process, and

1 I think the members of the 617 Steering Committees have, as
2 well, because we started out by, you know, probably the
3 environmental justice community not caring as much about
4 jobs, and us not caring much about the communities, and we
5 ended up now in a place where we equally care about what
6 the other is saying, and that's the only process that's
7 going to get us through this.

8 And so I would just encourage us to think about,
9 what does that look like, and how do we keep it going? and
10 I think one of them would be, I'll say it again, a
11 rulemaking. But the other one is the advisory committee
12 that is in SB X1-2. We should get that going. We should
13 establish it, get it going, get people on it, build
14 relationships, build trust, and solve a multitude of
15 problems that were brought up today.

16 DIRECTOR MILDER: I would just join the Vice
17 Chair in thanking the panelists, and also thanking Ethan
18 for moderating so well.

19 A closing thought from me would be what I've
20 gleaned from this group, I think, adds to sort of
21 perspective that the goal of any penalty, if there is one,
22 should be to incentivize responsible market activity and
23 deter or sanction irresponsible market activity. From what
24 I've heard today, the Energy Commission will benefit from
25 getting more accurate data and using that, as well as

1 industry expertise to guide that decision.

2 I think it's important for the Energy Commission
3 to have this tool in the toolbox, because these price
4 spikes have, unfortunately, become common. And so I'm
5 looking forward to the further work that the Commission
6 does, and I appreciate this group's time. Thank you.

7 VICE CHAIR GUNDA: Thank you so much, Director
8 Milder.

9 I think one, you know, just appeal, I think, you
10 know, this is kind of a question to you, but I just want to
11 add one thing to your point, I really think Connie
12 summarized it when she was saying, you know, whatever we do
13 with the penalty, you know, build in consumer protection in
14 this mid-transition, I think that's kind of the essence of
15 the discussion today.

16 I think I have a question, Cathy, to you, and
17 Professor, to you. You know, when we talk about -- and
18 then Jamie and others, please, weigh in if you would like
19 to. So I think you kind of discussed the idea of we are
20 not in a competitive market anymore, right, and we are not
21 really a monopoly, but we're in this middle where there is
22 an exertion of market power potential. And then you also
23 mentioned that exerting market power is not necessarily
24 illegal; right? And now we're trying to take that context
25 and saying we want to provide welfare and we want to

1 protect consumers in that through some level of regulatory,
2 you know, design, including a penalty.

3 So could you kind of comment on, you know, maybe
4 the boundaries of how you think about this; right? I mean,
5 I think I really would like to have a little bit more, as
6 we move into these workshops, I think more and more
7 workshops would be very focused on the frameworks and such.
8 If you could just set the stage for how to frame this
9 discussion would be really helpful.

10 And, Cathy, it's probably for you. The reason I
11 ask of you is like, you know, I understand the industry's,
12 right, when the, you know, prices are high at the pump.
13 You know, we discussed the points that you raised. You
14 know, we're an island. You know, we have all these other
15 constraints, tax and fees.

16 I think I would really request we move away from
17 the discussion; right? Because part of that is, you know,
18 if we were to trust the democratic process in California
19 and the legislative process, those legislations that put in
20 the fees and taxes are what the public want, right, for the
21 betterment of the public. So I want to move away from the
22 discussion and really think through, you know, those are
23 what the public want. And now we are moving towards there
24 are refinery margins, there are retail margins, what can we
25 do; right? I mean, what's the solution that you would

1 offer within the context of where we are? And I think
2 litigating or moving away from that doesn't necessarily
3 help us solve this.

4 And I'm asking this in good faith and welcoming
5 both of your input on how does this regulatory paradigm
6 evolve from zero towards something else? I really would
7 like to get your context, and Jamie, weigh in if want to.

8 Go ahead.

9 DR. ZARAGOZA-WATKINS: Sure, absolutely. So, I
10 mean, I think you framed it exactly as I would, which is
11 right now we're in a situation with imperfect competition
12 and the opportunity to exercise market power and some very
13 suggestive evidence that that's happening, potentially also
14 along with volatility that's the result of other factors
15 that are outside of the control of refiners, right,
16 including other actors within the sort of petroleum and
17 refining value chain.

18 It's straightforward to think about how we would
19 move towards a situation where we had a regulated natural
20 monopoly or a regulated set of actors where we're
21 collecting information on what their costs are, making
22 decisions, you know, as a democratic society about the
23 level of compensation or reward that we want to provide
24 those market participants, you know, in exchange for
25 continuing to participate in the market. As we've said,

1 that's a very data-intensive process, but one that
2 certainly could be done within the structure of SB X1-2.

3 And so I would encourage you to collect those
4 data to try and follow the will of the people and
5 understand what's necessary in order to maintain the level
6 of output and drive the transition to a more diversified
7 energy portfolio. You know, and to the extent that that
8 penalty is also revenue-raising, certainly there are
9 opportunities there to intertwine this discussion with
10 means of spending that the revenues from that penalty that
11 are going to provide for a more sort of equitable and just
12 transition. Certainly, that can be part of the
13 conversation as well.

14 MS. REHEIS-BOYD: Thank you, Commissioner, and
15 appreciate the honesty with which your question is asked,
16 so thank you for that.

17 And as you noted in my response, the last thing I
18 mentioned was the \$1.32, \$1.30 that goes into taxes fees,
19 cap and trade low-carbon fuel standard, underground storage
20 tanks fees, it's just a fact. It's not the issue, it's a
21 fact. They're all meritorious. Well, the decisions were
22 made by California to do it for very good reasons. But it
23 is a fact, and it does go into the price of gasoline, and
24 it does matter relative to comparing what we pay here to
25 the rest of the nation who doesn't do those things. So it

1 will continue to be on the table just as a fact and a point
2 of data.

3 But the other things I noticed had nothing to do
4 with that, that I noted; right? It's all about how do you
5 increase supply and how do you incentivize increasing
6 supply in a constrained market on infrastructure; right?
7 We have aging infrastructure. And all those places I
8 mentioned have nothing to do with the \$1.32. If we want to
9 get to the core problem of minimizing impacts to the
10 consumer, we've got to dig into every one of those.
11 They're all part of the picture.

12 So we're doing a lot of work there. And we're
13 going to continue to bring that forward to you because I am
14 quite concerned, again, on the aging infrastructure with
15 the existing system, and I'm equally concerned on the
16 infrastructure investment that is needed to connect the dot
17 to a lower-carbon economy. Both of those I'm concerned
18 about, and we've got to match them up.

19 And that's hard conversations, difficult ones,
20 it's going to take some time, but we're doing a lot of
21 analysis to bring forward to get those on the table and
22 say, here's what you need to do to fix both of these
23 equations so we can continue to provide adequate affordable
24 fuels now and we can continue to look to how we're going to
25 do a lower-carbon economy in the future. We've got to do

1 it.

2 MR. COURT: I just have to take issue because
3 it's a false fact. California does not add \$1.32. It
4 doesn't add \$1.12. It adds \$0.70 more if you look at the
5 difference between other state tax and our state tax. You
6 subtract out the federal taxes.

7 MS. REHEIS-BOYD: I agree with you. You should
8 subtract out the federal.

9 MR. COURT: Subtract the federal --

10 MS. REHEIS-BOYD: It's about \$1.08.

11 MR. COURT: -- that everybody pays. And what's
12 the average cost in other states? It adds \$0.70. And yet
13 you guys have done, or groups affiliated with you have done
14 mailers that blame Sacramento politicians for adding \$1.12
15 to a gallon. It's \$0.70. We can do the math. So if you
16 want to talk about it, talk about it at \$0.70.

17 I think one of the things that I think would
18 improve this debate, and I don't mean this in a negative
19 way, if your five refiners would agree to come to the table
20 and discuss what their actual costs are, it would matter.
21 And you know and I know that there is an exemption for
22 antitrust for public policy development. We're talking
23 about a public policy matter. There is no antitrust law
24 that prevents them from coming and talking with us and with
25 the Commission about what a reasonable gross refining

1 margin is, what the history of gross refining margin is,
2 what the gross refining margins are around the other
3 country.

4 There is no antitrust exemption. They don't want
5 to participate in this debate. If they come out and they
6 talk, I guarantee you it's going to be a better result than
7 doing this in a vacuum without them talking or because
8 every time you come you say I don't know and I can't answer
9 those questions. We need to get to the specificity from
10 their point of view of what they think is reasonable and
11 what's outside the reasonableness. That's all we're
12 asking.

13 MS. REHEIS-BOYD: Well, and I understand that
14 point, and that's why we petitioned for a rulemaking, so
15 let's do one.

16 VICE CHAIR GUNDA: So, Cathy, I do want to just
17 mention that rulemakings have been opened; right? So we
18 have that. I just want to make sure that we don't walk
19 away with the narrative that we haven't. I recognize, you
20 know, your accuracy in petitioning to the Commission to
21 open the rulemaking. We denied it based on the reason that
22 it's still an active process in the legislation. We wanted
23 to wait until we got some data. So totally recognize the
24 truth of your statement that we denied it, but there's
25 bigger story that now we started it, we had some reason.

1 So I think, again, this is kind of welcoming that
2 how do we move away from the potential rhetoric, the
3 potential rhetoric where we might lose each other in a good
4 faith discussion? And I just want to welcome to coming
5 back to the point.

6 And, Jamie, thanks for kind of clarifying the
7 \$0.70. And I think that's a fair point to just kind of --
8 when we start putting this information out. And I think
9 that's why my first question was not only just for the
10 Energy Commission, which is how do we create a venue for,
11 you know, creating the trusted information, but how do we
12 all show up in an accountable fashion that we are really
13 looking at the Californians at the end, right, to make sure
14 we protect them? So I welcome you all in that good faith.

15 And again, there's a lot of passion. And I, you
16 know, want to acknowledge, you know, Cathy, you know, to
17 your point, I drive a gas car. I do not have the money to
18 buy an EV yet. I would love to move to an EV as quickly as
19 I can. So in summer, I'm hit -- I mean, I'm also a
20 consumer. When I put in \$70.00 or \$80.00 of gas in my car,
21 that I couldn't take my kids out to something, I struggle.
22 You know, I would love to have those gas prices down. But
23 I also acknowledge that, where I am in the mid transition,
24 as Connie pointed out, in my own journey.

25 So I think, you know, the points that you bring

1 in, in terms of the industry has been kind of an economic
2 driver for California, it has created jobs, that's not in
3 debate, you know?

4 What we're also not debating is what, you know,
5 Elena and Connie mentioned, which is we have a very clear
6 California policy directive that we're moving towards a
7 decarbonized transportation system that would inevitably
8 destroy the demand for fossil, you know, gas, fossil
9 petroleum in the state.

10 And to Michael, to your point, I empathize with
11 you, if I'm told that something can replace my job
12 tomorrow, I mean, you know, I would love to have like a
13 little bit more time I can prepare, you know, for
14 something else. And so I recognize that too.

15 So I think what I'm asking for is respect and
16 kind of staying away from those inadvertent data points
17 that are not completely true, and kind of welcome the
18 discussion on how do we solve this for California, and
19 again, completely embracing the idea that we might be
20 illiquid (phonetic) at this moment, and we'll continue with
21 your support to get there. So that's why I would welcome
22 all of you to be part of.

23 So I would just invite you all to provide any
24 closing before you step down.

25 Michael, it looks like you want to start.

1 Connie? Connie, anything you want to close off?

2 MS. REHEIS-BOYD: No, let's just continue the
3 conversation because I think we put on the table some
4 really critical issues that have nothing to do with some of
5 the things you just noted. And we cannot forget the
6 infrastructure and investment concerns on both sides of
7 this equation. That cannot fall off the table.

8 VICE CHAIR GUNDA: Absolutely.

9 Jamie?

10 MR. COURT: No, I just, I do want to say to Mike,
11 I feel like with a reasonable gross refining margin,
12 there's going to be plenty of work in those refineries, in
13 those remaining refineries. But the just transition is
14 absolutely a part of this. And this is the moment where we
15 have to leverage the state to get that just transition
16 policies in. So we're 100 percent with you on all of this.
17 And for the communities too.

18 VICE CHAIR GUNDA: Anything you want to add
19 before --

20 MS. KRIEGER: Thanks for the chance to
21 participate and I look forward to seeing all of the data.

22 VICE CHAIR GUNDA: I know you will.

23 MR. COURT: There's one thing I wanted to add on
24 the cost aspect of this, we haven't talked about social
25 costs and the benefit on the terms of social costs. We

1 talked about economic costs but there is a big social cost,
2 social benefit, social value in putting a gross refining
3 margin in for the community. And I think that in your
4 exploration of this and the record you're creating you
5 should actually explore the value in terms of social costs
6 for the gross refining margin being capped.

7 VICE CHAIR GUNDA: Thank you.

8 Anything from you?

9 DR. ZARAGOZA-WATKINS: Just to say thank you for
10 the opportunity to participate. This has been a really
11 lively and I think informative debate. So I appreciate all
12 of you as well. And it seems like you're putting together
13 a very thoughtful set of proceedings in partnership with
14 the California Air Resources Board, which I think is
15 obviously going to be an important partner. You know, as
16 you emphasize, there is a strong policy direction towards
17 decarbonization of the transportation sector. And so both
18 agencies have an important role to play and it's great to
19 see that cooperation.

20 VICE CHAIR GUNDA: Thank you all so much.

21 So with that, I'll pass it to Ryan here.

22 MR. EGGERS: Thank you, everyone. My name is
23 Ryan Eggers. We're going to move on to public comment.

24 Thank you, moderators. You may take a seat.

25 Thank you, Ethan, for moderating our panel.

1 So to move on to public comment, we're going to
2 take any public comment in the room, first and foremost.
3 If you would like to make a comment, please approach the
4 podium here in the middle of the room. You do have three
5 minutes to provide your comments.

6 Okay, I'm not seeing anybody in the room who's
7 prepared to give comments at this time, so we will move to
8 Zoom. And if you're on Zoom, please raise your hand. We
9 do see one person with a raised hand. It's star nine to
10 raise your hand and star six to unmute. Greg would like to
11 make a comment.

12 Greg, are you prepared to make your comment?

13 MR. KARRAS: Yes, I am. Can you hear me?

14 MR. EGGERS: We can, Greg. Thank you. Could you
15 please give your full name before providing comment?

16 MR. KARRAS: Greg Karras, Community Energy
17 reSource. I'll be brief.

18 I thought this was fascinating and really
19 appreciate it. I especially appreciate, Commissioner
20 Gunda, your question about how to -- what are the
21 boundaries of how to think about this. And in that
22 respect, I want to push back on what I think is a
23 potentially false and dangerous assumption, so the idea
24 that the specter of the only way that this transition is
25 going to work is it will include big, sudden refinery

1 closures all at once.

2 You know, the thing is, humans have never phased
3 out petroleum before, so why assume it has to be one
4 refinery at a time and huge losses of big chunks of jobs
5 and fuel supply all of a sudden? That's not what happened
6 in COVID.

7 Take jet fuel. Jet fuel use tanked for months
8 during COVID and there was nowhere to export it to either.
9 The only refinery that we saw close in California,
10 Marathon-Tesoro Martinez, according to CEC staff, didn't
11 make jet fuel. What you heard from Julia May from CBE in
12 an earlier workshop was that what actually happened is we
13 saw the extent and the limits of flexibility of refineries
14 to use their existing infrastructure to phase down. And I
15 added earlier that it takes just about as many workers to
16 run a refinery half full as full.

17 So there's a way to think about possibly having
18 less supply shock, less jobs loss, less local tax-based
19 shock, less price shock if we think about how to transition
20 in a way that's smooth and what's the government's role in
21 that.

22 That's a discussion that we only have if we're
23 willing to point out that the assumption that we have to
24 let refineries decide to get bigger and export to try to
25 make up for the fuel losses and consolidate to fewer

1 refineries that are all bigger, which has been gone for 50
2 years in the U.S. and California, we don't have to do that.
3 We can decide to have a transition that actually maximizes
4 benefits to the greatest number of people and minimizes
5 costs if we do it smoothly. But we got to think about how
6 to do that transition. And that's going to also be a part,
7 I hope, of this part of the proceeding where you're
8 thinking about how to structure your price penalty.

9 Thanks.

10 MR. EGGERS: Thank you, Greg.

11 Is there anybody else on Zoom who would like to
12 raise their hand to make a public comment?

13 We're seeing none, so back to you, Vice Chair,
14 for closing comments.

15 VICE CHAIR GUNDA: Thank you. Again, I just want
16 to say thanks to the staff for pulling this together, Drew,
17 for setting the context at the top, Ryan, Andrea, and the
18 CCO, Aleecia, everybody, thank you so much for all the work
19 you're doing.

20 So one piece I also want to just say is to the
21 public who are attending these, I see 100 people listening
22 in, it's really important that, you know, we hear your
23 voices. So please, to the extent that you're able to
24 submit comments, we would love to get your thoughts and
25 records so we can move forward.

1 I also want to thank the panelists. Thank you so
2 much for taking the time and for the thoughtful discussion.
3 I think it was really helpful for me. Every day, you know,
4 I hear perspectives.

5 You know, Connie, thank you for facilitating some
6 of the tours, you know, down in Long Beach for the
7 communities, the fence-line communities. It, really, it
8 impresses upon you very strongly when you're down there
9 kind of talking to, you know, colleagues down there and,
10 you know, families living on the fence line, so I really
11 appreciate that.

12 And, Matt, thanks for jumping in in the last
13 moment to set up the conversation. Really hope you will
14 continue to work on this topic and we seek your insights.

15 Jamie, as usual, thank you for bringing your
16 passion for consumer protection. Appreciate yours.

17 Cathy, you know, you've been an industry insider
18 for so long, you understand this inside out. Thanks for,
19 you know, being here and representing. And I think I would
20 continue to advocate what Jamie said about, I think it will
21 be really good for the industry to be able to sit at the
22 table. Maybe it's a different table, but we need to have
23 that in a way that we can have those conversations and
24 understand the antitrust and those issues and how do we get
25 past that would be a helpful discussion to have.

1 And, Elena, as usual, thank you. And also thank
2 you for serving on the DACAG and being an important voice
3 in all of our discussions.

4 So thanks to all of you.

5 And I want to just give a big shout out to our
6 Director here, Director Milder, for taking up this
7 appointment with California and working on consumer
8 protection and market monitoring.

9 So I would invite you, if you want to say
10 anything, before we jump off?

11 DIRECTOR MILDER: No, I would also just add
12 Connie in the list of appreciations there, all the
13 panelists today. I feel like I learned something from each
14 and every one of you. So thank you.

15 VICE CHAIR GUNDA: Thank you all. With that,
16 adjourned.

17 (The workshop adjourned at 11:42 a.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 13th day of December, 2023.



MARTHA L. NELSON, CERT**367

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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

December 13, 2023