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CALIFORNIA ENERGY COMMISSION

In the Matter of:) Docket No. 17-IEPR-07
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2015 Integrated Energy Policy) Integrated Resource
Report (2017 IEPR)) Planning

Joint Agency Workshop on Potential Methodologies
to Establish Greenhouse Gas Emission Reduction
Targets for Publicly Owned Utility Integrated
Resource Plans

CALIFORNIA ENERGY COMMISSION
HEARING ROOM A, 1516 NINTH STREET
ART ROSENFELD HEARING ROOM
SACRAMENTO, CALIFORNIA

TUESDAY, APRIL 17, 2017
1:00 P.M.

Reported by:
Kent Odell

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Karen Douglas, Commissioner, CEC

CEC Staff Present

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Melissa Jones
Robert Stanley
Michael Sokol, CEC
Jordan Scavo, CEC
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Presenters

Richard W. Corey, Executive Officer, CARB
Mary Jane Coombs, CARB
David Vidaver, CEC
Garry O'Neill-Mariscal, CEC
Moderator Michael Sokol, CEC
Justin Wynne, CMUA - (Braun Blaising Smith Wynne)
Tanya DeRivi, SCPPA
Scott Tomashefsky, NCPA

Public Comment

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P R O C E E D I N G S

APRIL 17, 2017

1:03 p.m.

MS. RAITT: All right. Good afternoon.

Welcome to today's Joint Agency Workshop on Potential Methodologies to Establish Greenhouse Gas Reduction Targets for Publicly Owned Utilities Integrated Resource Plans. Yeah. So we're just going to get started here.

I'm Heather Raitt. I'm the Program Manager for the IEPR. A few housekeeping items I'll go over quickly. If there's an emergency and we need to evacuate the building, please follow Staff to Roosevelt Park, which is across the street diagonal to the building.

Today's Workshop is being broadcast through our WebEx Conferencing System and parties should be aware that you're being recorded. We'll post the audio recording on the Energy Commission's website in a couple days and a written transcript in about a month.

At the end of the day we will have an opportunity for public comment and we're asking the comments be limited to three minutes. Please fill out a blue card, and that's at the entrance, if you go ahead and give it to me. When it's time to

1 comment please come to the center podium and identify
2 yourself and speak into the microphone, and please
3 give your business card to the court reporter.

4 For WebEx participants, you can use the tap
5 function to tell us WebEx coordinator that you'd like
6 to make a comment during the public comment period,
7 and for phone-in participants we'll open the lines at
8 the end.

9 Materials for the meeting are available at
10 the entrance to the hearing room and listed on our
11 website, and written comments are welcome and due on
12 May 1st, and the notice provides information about
13 how to submit comments. And with that, I'll turn it
14 over to Chair Weisenmiller.

15 CHAIRMAN WEISENMILLER: Thank you. Like to
16 thank everyone for being here. I think one of the
17 things that SB 350 did, and certainly, stepping back
18 to the Scoping Plan from the Air Board and the
19 Governor's State of the State and then the
20 legislation, I guess, in terms of the flow, it really
21 started to crystallize everyone to focus on
22 greenhouse gas emissions.

23 And certainly, come out of 350 one of the
24 things which we need to do is resetting greenhouse
25 gas emissions for -- we, meaning all the collective

1 agencies -- for greenhouse gas emissions, and
2 basically looking at how we're going to achieve those
3 through the IRP process.

4 And so one of the questions always becomes,
5 what's the baseline? You know, we can't be in a
6 situation eventually where we know that say we're not
7 meeting the targets, but we're not clear who or what
8 the responsibility is.

9 So this is part of the foundation, then, is
10 to have this Workshop today on potential
11 methodologies. Alternately, what the -- I was going
12 to say the Air Board's going to have to figure out
13 how to allocate it across the various IOUs, POUs,
14 LSEs, et cetera, but at least this is one of the
15 foundation steps in trying to get the baseline
16 together. So with that, Richard.

17 MR. COREY: Yes, thanks, Chair Weisenmiller,
18 and good afternoon. Great to be here. What we are
19 looking for this discussion, we're really excited
20 about the discussion because I think it's going to be
21 useful in terms of informing the methodology in terms
22 of the GHG targets for LSE.

23 So SB 350, a lot of elements to it, but the
24 element we're focusing on is both the GHG sector
25 based target, and then ultimately, how do you roll

1 that in, just as the Chairman said, to LSEs. And I
2 think and the other thing we're thinking about is the
3 interaction that the Chairman also mentioned with
4 respect to the scoping.

5 So in parallel to this process we are
6 continuing to work on the Scoping Plan and having an
7 overall strategy that clearly includes the
8 electricity sector contributing to how we're going to
9 meet the target called for SB 32, a 40 percent
10 reduction in GHGs.

11 So in the draft we have a range, and
12 clearly, that's an area that will continue to be
13 worked on. And we're getting comments that that'll
14 be useful as we think about the electricity sector
15 going forward with an RPS of 50 percent, with
16 continued energy efficiency and reduction in
17 consumption.

18 Even with the significant transition that's
19 playing out in the transportation sector, both in
20 light duty and, ultimately, the heavy duty side, as
21 we transform to electrification of transportation,
22 all those things factor into the methodology, the
23 approach, how do we have a clear GHG signal and how
24 do we design it and implement it in an effective way
25 that can mostly monitor it, have effective, clear

1 baseline, and make progress to our long-range
2 targets.

3 When I say long-range, that's well beyond
4 2030, but 2030's an important milestone. So with
5 that, I think I'll conclude.

6 MS. BROOK: There we go. Martha Brook,
7 Commissioner McAllister's Technical Advisor. And
8 Andrew's very sorry to miss this today and he wanted
9 to make sure I paid attention and took good notes,
10 and that's what I plan to do.

11 MS. RAITT: Great. So I'd like to invite
12 our first speaker, Mary Jane Coombs, from the
13 California Air Resources Board, to make a
14 presentation.

15 MS. COOMBS: Thank you very much and thank
16 you for hosting us here today. I'd like to do a
17 little overview right now of, from ARB's perspective,
18 the SB 350 interagency aspect of these workshops, and
19 then go on to talk about the basis for a potential
20 divvying up of the sector target, and that'll be
21 followed up by a discussion by Dave Vidaver that will
22 outline how that basis could be utilized in this
23 process.

24 So first of all, I think we all know that
25 SB 350 requires ARB to establish targets in

1 coordination with both CPUC and CEC, and that all
2 three of the agencies have roles here in this
3 process. So CPUC and CEC have significant and equal
4 roles in establishing the sector and individual LSE
5 and POU planning targets.

6 In addition to that they have their own
7 process. Today we're here through the IEPR process.
8 And I understand from talking with some folks that
9 there are questions about what the ARB process will
10 be in the end, and I think we can -- my presentation
11 today does not touch on that, but I'm sure that we
12 can answer questions on that, as well.

13 So the three agencies will facilitate a
14 joint, informal, public process. We want to avoid
15 any duplication and streamline the process, both for
16 ourselves, as well as for the stakeholders involved.
17 And workshops will be attended by Staff from all
18 three agencies, even if they're not noticed as joint
19 workshops.

20 We will collaborate on public materials and
21 we jointly review both the comments and stakeholder
22 feedback, as appropriate. We want to point out that
23 from ARB's perspective that our website on the SB 350
24 process points to the CEC and CPUC websites on this
25 process, and we always mirror any workshops that are

1 going on, on our website.

2 From our perspective, our tentative schedule
3 on the Scoping Plan is that we will release in spring
4 of this year a Final Proposed Scoping Plan. Our
5 Board will consider that in June of this year, and
6 then by the end of this year we plan to consider the
7 SB 350 sector and the individual planning targets.

8 All right. So into how we can determine how
9 to split up this sector target that we have been
10 having discussions about at the various workshops for
11 the electricity sector. So I want to emphasize again
12 that I'm talking about a basis here for estimating
13 the individual LSE and POU targets, and David Vidaver
14 will go into further detail about that.

15 Although not explicitly noted in the slide -
16 - this is what I'm going to be talking about in the
17 next few slides here -- is essentially the same as we
18 have been discussing through our Cap and Trade
19 Program of a post-2020 allowance allocation
20 methodology for the electrical distribution
21 utilities.

22 There are some differences between that and
23 what I'll be talking about here today and that will
24 be noted. So the idea here is that we would
25 calculate the greenhouse gas emissions in metric tons

1 of CO₂e, associated with the electricity served by
2 each electrical utility noted in the Cap and Trade
3 Regulation.

4 As those of you who are well familiar with
5 our process in the Cap and Trade Regulation know, we
6 utilize projections from a number of different
7 resources, primarily the 2015 IEPR Demand Forecast.
8 So we used the load numbers from that.

9 We utilized the 2015 S2 Resource Plans to
10 get information about generation sources, and then
11 for those utilities, and in particular in this case I
12 am talking about electrical distribution utilities in
13 the Cap and Trade Program, which is a slightly
14 different set of the load serving entities in the
15 POU's we're talking about here.

16 We utilize other data sources that could be
17 -- could get the same level of information that is in
18 the demand forecast and the S2 Resource Plans. So
19 here I have a link from our December Proposal for the
20 EDU, as we call it, allocation methodology.

21 I do want to note that since these slides
22 have been put together we put out another proposal
23 for our post-2020 EDU allocation methodology, and we
24 can provide an updated link for that there. I'll
25 note on the next slide what the difference is between

1 the December proposal and the proposal that went out
2 on last Thursday.

3 So a little more detail, and I'm not going
4 to go into the nuances of each electrical
5 distribution utility. There are some exceptions.
6 Just to let you know that the link provided on the
7 previous slide and a future link will be provided --
8 will provide exhaustive detail on each utilities'
9 calculation.

10 But very generally, the emissions are
11 calculated, the emissions that we're talking about
12 for the 2030 target, from natural gas resources. And
13 for the assumption of what that emission factor is we
14 use .4354 metric tons CO₂e per megawatt hour.

15 And then generator specific emission factors
16 for solid fuel resources, as well as using the IPCC's
17 AR4 global warming potentials. Natural gas
18 generation is calculated as what's left over when you
19 take the generation for load, subtract out solid fuel
20 and generation and subtract out zero emissions
21 generation.

22 The zero emission generation is calculated
23 based on each utility, I should say this is for the
24 December proposal, based on each -- for the December
25 proposal from the Cap and Trade perspective -- on

1 each utility meeting the 50 percent requirement in
2 2020, and this 50 percent is applied to sales
3 projections, and then any additional zero emission
4 resources not covered under the RPS Program, so your
5 nuclear, your large hydro.

6 So the major difference I want to note here
7 is that in the proposal that we released on Thursday
8 we have changed our assumptions for post-2020 EDU
9 allocation to assume a 45 percent RPS requirement by
10 2030.

11 And it's not necessarily that the RPS
12 requirement will be 45 percent. The assumption is
13 that a lower percentage of the electricity for RPS,
14 not all of that is going to count as a zero emission
15 resource.

16 So forming and shaping power is going to
17 have a different consideration. So we assume a 45
18 percent, zero emission resource from the RPS by 2030.
19 Load served by natural gas is assumed to never drop
20 below five percent.

21 And then finally, the LSE and POU target
22 estimation does not utilize a cap adjustment factor.
23 And it's -- those who are familiar with the Cap and
24 Trade Regulation process, the same is assumed for the
25 proposal that just went up on Thursday. So they are

1 closer together in that sense. So I believe that is
2 my last slide. Thank you.

3 MS. RAITT: Thank you very much. Our next
4 presentation is David Vidaver, from the Energy
5 Commission.

6 MR. VIDAVER: Good afternoon. My name's
7 Dave Vidaver. I'm with the Supply Analysis Office of
8 the Energy Assessments Division of the Energy
9 Commission. Before I get started I'd like to thank
10 Mary Jane for all her help in understanding CARB's
11 proposal, to the extent that I do.

12 So just to review, on February 23rd we had a
13 Joint Agency Workshop that discussed two topics. One
14 was defining an overall electric sector emissions
15 target in 2030 for IRP purposes, based on the
16 analysis done for the Scoping Plan.

17 And the second question asked at that
18 workshop was what, if any, methodology would be used
19 to divide the electric sector emissions reduction
20 target between the CPUC's and Energy Commission's
21 respective IRP processes.

22 During that workshop there were three
23 options were considered. One was using the
24 methodology similar to CARB's allowance allocation
25 for EDUs, here referred to as Option A. The second

1 option was simply dividing the electric sector target
2 across POU's and LSEs based on electric load served in
3 2016.

4 And the third option was to develop a
5 bottoms up methodology for apportioning the electric
6 sector emissions reduction target across those same
7 entities. Comments were received on all three. The
8 subject today is a third part, and that is allocating
9 the Energy Commission's share of the sector target to
10 publicly owned utilities that are required under
11 SB 350 to adopt IRPs by January 2019, and
12 subsequently submit them to the Energy Commission for
13 review.

14 So we can look at the same three choices in
15 deciding how to do this. One of the choices was
16 simply dividing the electric sector target based on
17 load served in 2016. The advantages noted by
18 parties' comments was it's very transparent and it's
19 very simple.

20 Just simply take historical loads from 2016,
21 divide it up and you have everybody's share of
22 whatever sector target you choose for 2030. The
23 disadvantage of this methodology is it doesn't
24 account for the distribution of non-RPS, zero and
25 low-carbon portfolio resources across POU's.

1 Basically, if you're endowed with a lot of
2 large hydro and nuclear it's easy for you to reach a
3 given emissions target. If you don't have any of
4 these you either bet a lot more energy efficiency,
5 get a lot more RPS eligible energy.

6 Utilities do differ in their endowment of
7 non-RPS zero carbon resources. I've got 19 utilities
8 up here, the 16 POUs required to file IRPs with the
9 Energy Commission and the three large IOUs. And you
10 can see that the City and County of San Francisco is
11 sitting kind of pretty, and Anaheim and San Diego,
12 well, they just don't have a lot of zero carbon
13 resources in their portfolio.

14 So the use of Option B would make it very
15 easy for the City and County of San Francisco to meet
16 whatever target you established for it, and make it
17 much more difficult for San Diego Gas and Electric
18 and Anaheim to reach theirs.

19 Today we're going to discuss Options A and
20 C. One is using a methodology similar to the one
21 that Mary Jane described, and the other is developing
22 a bottoms up methodology of our own choosing.
23 Fortunately, we don't really have to do -- choose
24 between one or both, because Option A is very similar
25 to Option C.

1 If you take the Air Resources Board's
2 methodology for allocating carbon allowances to the
3 EDUs with a couple of modifications, you come up with
4 something that looks like Option C. Mary Jane went
5 over the CARB proposal for each utility.

6 You simply estimate the net energy for load,
7 the retail sales, and from that, 50 percent RPS
8 energy requirement from net energy for load, the RPS
9 energy and any other non-RPS zero carbon energy in
10 the portfolio.

11 You come up with a residual. You assume
12 that's met with gas at .4354, or heat right up about
13 8200 BTU per kilowatt hour and that's your expected
14 emissions in 2030. And as CARB did, they assumed
15 that any utility would need to balance its loads --
16 five percent of its loads with natural gas.

17 So and you can see that document we relied
18 on. Our job is easier than CARB's. CARB has to
19 allocate allowances for 2021 to 2030. We're just
20 setting a target for 2030. So we don't have to
21 concern ourselves with time paths and rate shocks in
22 2021, for example.

23 The data sources that CARB relied on were
24 the Energy Commission's California Energy Demand 2015
25 forecast; relied on the same forecast for retail

1 sales estimates, and it relied on the S2 supply
2 filings submitted by all load serving entities in
3 California to the Energy Commission in the 2015 IEPR.

4 The advantages of using this methodology are
5 that it aligns the targets with each entity's
6 endowment of resources that make it easier to meet a
7 given target. It can be used to assign percentage
8 shares of emissions to POUs, regardless of the sector
9 target you choose and whether or not there's an
10 initial allocation between the CPUC and Energy
11 Commission entities.

12 It also assigns shares of GHG emissions to
13 non-filing POUs, which are a not insignificant part
14 of California's electricity landscape. It also uses
15 a methodology and data that have been vetted by CARB.
16 So there are questions to be resolved.

17 Should the five percent minimum gas
18 assignment be retained? That applies to three
19 utilities, only one of which is a filing entity. The
20 other two are very small. The total amount of gas-
21 fired generation involved that is sort of forced on
22 the system by retaining this assumption that
23 otherwise wouldn't be utilized is less than one-tenth
24 of one percent. So it doesn't introduce a
25 significant distortion, for want of a better word.

1 Should the allocation shares be updated,
2 too, based on the most recent CED forecast, which is
3 a year more recent. It was adopted earlier this
4 year, and/or the 2017 supply form filings, which are
5 coming in as we sit here.

6 The numbers will change, but you have to
7 remember that the total emissions from the sector are
8 determined by the overall target that we use, and all
9 we're doing by choosing different data is changing
10 the individual utility targets sort of at the margin.

11 If you all of a sudden found your 2030 net
12 energy for load forecast dropping substantially
13 because you put in a lot more energy efficiency let's
14 say in 2017 than you did in 2015 filing, you're going
15 to be rewarded by a GHG emissions target that is a
16 little more stringent.

17 We'd like comments on whether there are any
18 other modifications to this methodology that would
19 improve it, or is there a methodology, either
20 considered in the form of Option B or any other
21 methodology that you might come up with that you
22 think would be preferable.

23 And we have some results using the 2015 and
24 2016 data. We have the 16 POUs here. There are four
25 columns. The first column is share of projected

1 emissions across all POU's and CPUC jurisdictional
2 entities. You can see the total at the bottom is
3 21.1 percent.

4 That means that the 16 POU's obligated to
5 file with the Energy Commission under SB 350
6 constitute 21.1 percent of the sector's emissions.
7 We have projected emissions based on the demand
8 forecast and the utilities' information as filed in
9 the 2015 IEPR. And jointly they yield a projection
10 of 12,200 -- excuse me 12,200,000 metric tons of CO₂e.

11 The third column represents the utilities'
12 targets, assuming that the midpoint of the Scoping
13 Plan is used as a sectoral target, and that the
14 allocation between the CPUC entities and POU's either
15 uses the methodology recommended here, or that there
16 is no initial allocation between the two.

17 And the final column is the share of POU
18 emissions. The bottom number of 92.7 percent
19 indicates that the 16 filing POU's are -- the
20 emissions targets one would associate with the 16
21 filing POU's are 92.7 percent of the total emissions
22 from all POU's, large and small. And I believe that
23 concludes my presentation.

24 CHAIRMAN WEISENMILLER: Yeah. Dave, just a
25 couple questions.

1 MR. VIDAVER: Yes, sir.

2 CHAIRMAN WEISENMILLER: On the three
3 entities who would be affected by the five percent,
4 who are they?

5 MR. VIDAVER: One is the City and County of
6 San Francisco. One is Eastside and the other is even
7 tinier than Eastside Power Authority. I'm sorry. I
8 don't have it off the top of my head.

9 CHAIRMAN WEISENMILLER: Okay.

10 MR. VIDAVER: But I can find that, though.

11 CHAIRMAN WEISENMILLER: Okay. And you said
12 only one of them would it matter.

13 MR. VIDAVER: The City and County of San
14 Francisco is far and away the -- has the largest load
15 of the three. We're talking about -- want to make
16 sure I got the units right here -- 50,000 metric tons
17 of emissions associated with natural gas that because
18 City and County of San Francisco, if it didn't have
19 this five percent allowance for gas to balance its
20 loads would be at -- let's see.

21 Where are we here? You can see -- whoops.
22 You can see that City and County of San Francisco is
23 sort of fully resourced with RPS and zero carbon, not
24 RPS energy. So if you didn't allow it to balance any
25 of its loads with gas it would have an emissions

1 target of zero.

2 And if you're going to allow it to, it has
3 roughly 1 million, I want to say megawatt hours, but
4 it has an allowance of 50,000 metric tons of
5 emissions that -- which constitute roughly one-tenth
6 of one percent of the 10 or 11 million in the sector,
7 or among POU's.

8 CHAIRMAN WEISENMILLER: Okay. And thanks.
9 Would you just remind everyone, when we ask for
10 comments, you know, where the -- what the general
11 sense was between Options A, B and C for this intra-
12 POU allocation?

13 MR. VIDAVER: Can I ask Ms. Jones to come
14 up?

15 CHAIRMAN WEISENMILLER: Sure.

16 MR. VIDAVER: She's the one who prepared
17 that.

18 CHAIRMAN WEISENMILLER: Sure. Okay.

19 MR. VIDAVER: Thank you.

20 MS. JONES: So option C got the most votes
21 by commenters, and others had indicated that A would
22 be very similar to C.

23 CHAIRMAN WEISENMILLER: Okay. Thanks.

24 MS. RAITT: So we did get a couple questions
25 from WebEx, but we can go ahead and take those during

1 public comment if you prefer.

2 CHAIRMAN WEISENMILLER: Oh, sure. That'd be
3 good.

4 MS. RAITT: Okay. So the next speaker is
5 Gary O'Neill-Mariscal, to speak on Proposed
6 Methodology for Determining Greenhouse Gas Baselines
7 for POU's.

8 MR. O'NEILL-MARISCAL: Hi. I'm Garry
9 O'Neill-Mariscal. I work in the Energy Assessments
10 Division at the Energy Commission. At the February
11 23rd Workshop the Chairman asked the Staff to come up
12 with a proposed methodology for setting a baseline
13 for the POU's for use in their IRPs, and this is the
14 proposed methodology that Staff have come up with.

15 Staff is seeking feedback on this proposal
16 on ways to improve it. So some of the things that
17 Staff was considering when they were developing the
18 methodology to set a baseline for the POU's is that
19 this is going to be a reference point to take a look
20 at the -- where the POU's have been, compared to where
21 they're going.

22 It's informative, not regulatory. There are
23 a number of data limits that the Energy Commission
24 has regarding what the POU's' specific purchases of
25 power going back are. We right now only have data

1 going back to 2001 for a number of the POUs going
2 through 2014, through the Power Source Disclosure
3 Program, for example.

4 There's going to be some uncertainty when
5 we're talking about what the emissions baselines
6 mean, compared to, you know, it's an estimate of the
7 historic emissions because we have emissions
8 intensities that we're using, versus what the actual
9 emissions were.

10 And there was also a lot of hydro variation.
11 A lot of the POUs have small hydro purchases, large
12 hydro purchases, and that is going to affect their
13 GHG emissions year by year, and we want to be able to
14 account for that.

15 And then there may be some other
16 considerations the Staff hasn't included in here.
17 We're looking for feedback on those. So Staff's
18 proposed methodology uses the Power Source Disclosure
19 Program. This seems to be the most robust data
20 source for specific purchases that the POUs have made
21 to meet their loads over the years.

22 This data source isn't perfect. It goes
23 back. The best data we have through the Power Source
24 Disclosure Program goes back through 2001. And the
25 latest year that we have available that's been

1 submitted I believe is 2015.

2 This data does not include submissions for
3 all of the POU's in the early years. The most robust
4 data sources for all the POU's started in about 2008
5 and went through 2014.

6 As far as a baseline year, Staff was
7 proposing 2009, and this is because of the TEPPC WECC
8 Group shows 2009 was considering that an average
9 hydro year, and I'm using air quotes, because for
10 Californians in particular, for hydro generation, it
11 may not be an average hydro year for all of the
12 utilities specifically, but for California as a whole
13 it does appear that it is an average hydro generation
14 year.

15 And then some of these other assumptions we
16 had to make were based on emissions intensities by
17 resource type. We chose the EIS's Emissions
18 Intensity Table as similar to what we used in the
19 Clean Power Plan.

20 We also had to assume a heat rate for the
21 power generators. We used a simplifying assumption
22 and just assigned a heat rate for all of the units.
23 So for coal we chose 10,200, and then for natural gas
24 we chose something very close to 8,000.

25 And then we also had to assume an emissions

1 intensity for imported power, traded power within
2 California and other unspecified claims within the
3 Power Source Disclosure Program. We lumped all those
4 together and estimated that at a .484 CO₂e.

5 And then this slide just kind of gives you a
6 sense of what the baselines using this methodology
7 are going to look like for each of the POUs under the
8 filing requirements. And then comparing that to the
9 sector-wide emissions from the ARB's emissions
10 inventory.

11 Excuse me. So if you take a look at it, as
12 far as scaling this does come up with what we would
13 expect for the 16 POUs, as far as compared to the
14 electricity sector as a whole, and the numbers don't
15 look too far off from what we would expect from each
16 individual utility.

17 The total for this were 24 million metric
18 tons CO₂e, which falls pretty close in line with the
19 100 million metric tons, roughly, CO₂e from the air,
20 the emissions and inventory. So that actually
21 concludes my presentation, but we are looking for
22 feedback on ways to improve this methodology or seek
23 comments from the POUs or from the dias to see if you
24 have any questions regarding any specific parts of
25 the methodology. Thank you.

1 CHAIRMAN WEISENMILLER: Oh, thanks. This is
2 a good starting point for the conversation. I'm sure
3 at some point people will try to understand more,
4 some of the variation over time, but I think the
5 notion of picking an average hydro year is certainly
6 a good way to try to structure the base, baseline.

7 MS. RAITT: Thank you, Garry. So next, we
8 have a panel to discuss the proposed baseline and
9 target-setting methodologies, and Michael Sokol is
10 our moderator. So if you can come on up to the
11 tables, that would be helpful. Thank you.

12 MR. SOKOL: All right. Well, thank you,
13 Heather, and we're obviously pretty far ahead of
14 schedule here in terms of the time on the Agenda. So
15 that gives us plenty of time for a good discussion
16 here.

17 And I think, you know, what we've been
18 discussing today are a few potential methodologies
19 for how to get to those POU-specific GHG targets, and
20 then also the discussion on the developing baselines.
21 So what we'd be interested is hearing just a little
22 bit of feedback from some of the POU reps here on
23 sort of what -- is there anything missing.

24 Are there any major comments you want us to
25 focus in on? Obviously, we'll be looking to the

1 written comments to help fill in some of those gaps,
2 but I think we want to make sure we're keying in on
3 any major topics.

4 So just to get started we have, you know,
5 just three panelists here. We have Justin Wynne from
6 California Municipal Utilities Association, and then
7 we have Tanya DeRivi here from Southern California
8 Public Power Authority, and then Scott Tomashefsky
9 here from Northern California Power Agency.

10 And I'll sort of kick it off and just let
11 you frame some opening remarks, but we'll keep it
12 more conversational style to try and dive into
13 specific issues that you feel are important to
14 discuss. So I'll turn it over.

15 MS. DERIVI: Thank you. This Tanya DeRivi,
16 with the Southern California Public Power Authority.
17 And we thought we'd change things up a little here
18 and work on collaborating our joint presentation here
19 on issues to provide feedback on Staff's
20 presentation, both ARB and CEC.

21 First, we wanted to say that the public
22 power utilities here in California are fully
23 committed to meeting the goals outlined in Senate
24 Bill 350, both the RPS and with the 2030 GHG
25 reduction goal going forward.

1 This was outlined in a letter that was sent
2 to the Energy Commission from the IRP Utilities
3 Governing Board Leaders, which includes mayors, city
4 council members and the POU Governing Board Leader
5 Presidents, in a recent letter from the February 23rd
6 Workshop, where we did say -- reiterated our
7 commitment to achieving the SB 350 goals and listed a
8 number of issues, including consideration of rate
9 impacts and how the electric utility industry,
10 particularly here in California, is undergoing
11 significant changes at an incredibly rapid pace,
12 which sort of lays the groundwork here for comment
13 that we will be sharing here.

14 Also wanted to express our appreciation for
15 both the Energy Commission and Air Resources Board
16 Staff for working towards collaborating --
17 collaboratively working on issues towards
18 implementing SB 350.

19 This includes, for example, the Energy
20 Commission Staff working on a Transportation
21 Electrification methodology on how we can compute the
22 GHG emissions for crediting under the Air Resources
23 Board's Cap and Trade Program, which was something
24 that was outlined in Senate Bill 350 when it was
25 passed. With that, I'll turn it over to you.

1 MR. WYNNE: Thanks, Tanya. So Justin Wynne
2 on behalf of the California Municipal Utilities
3 Association. And just at the outset I just want to
4 have a couple points on process. And we appreciate
5 that there's been an increased coordination between
6 the three agencies in this effort, and we appreciate
7 the comments earlier from ARB Staff that there would
8 be this continued joint process moving forward.

9 I think one concern that we have is because
10 there's going to be one electric sector range that
11 needs to be divided up, it's possible that the
12 recommendations of the CEC could have impacts for the
13 CPUC jurisdictional entities, or recommendations from
14 the CPUC could impact the POUs, just because there's
15 one single pot that we're dividing up.

16 Because of that concern we want to make sure
17 that all of the parties are together in the workshops
18 as much as possible. One of the things we want to
19 avoid would be potentially a joint ARB-CPUC
20 proceeding where the only way that we could provide
21 input would be through the CPUC's rule-making,
22 because I don't believe any of the POUs are actually
23 parties to that proceeding.

24 And also, the PUC doesn't have jurisdiction
25 over the POUs, so any of the recommendations from the

1 PUC would have concerns. So ideally, we would move
2 as quickly as possible to a formal ARB process. I
3 understand that there'll be recommendations from the
4 different entities -- different agencies ahead of
5 that.

6 But given the concerns about the fact that
7 we're splitting one pot up, our hope is that anytime
8 any of the entities are making recommendations on
9 this that we would all have the opportunity to
10 provide comment on that.

11 And then I was just very briefly going to
12 start off with the ARB proposal related to the IRP
13 GHG targets. And just an initial comment would be,
14 these are really complicated proposals, that there's
15 a lot of data involved, and also, things have been
16 changing very rapidly.

17 And so it's been difficult for us to get
18 complete input from our members. So we actually had
19 a lengthy call earlier today and a lot of that was
20 still just trying to understand what the proposals
21 actually are. And so we have to cross that threshold
22 before we can actually get in and be evaluating each
23 of the different proposals.

24 Some of the things that we're still
25 struggling with is this idea that there would be a

1 methodology to split between the POU's and the CPUC
2 entities, and in trying to understand how that
3 relates to the methodology used to set the individual
4 entity targets.

5 And just looking through the slides from
6 earlier, it seems like they're very close. There may
7 be some differences. And so just understanding how
8 that actually functions will be really important.
9 Also, the fact that there was the recent proposal
10 from ARB that changes how the allowance allocation
11 methodology is set.

12 One of the things we are still struggling
13 with is going through some of the Excel spreadsheets
14 provided for that and seeing how that changes -- what
15 the changes from that are and how they factor into
16 this, whether there's an actual change to the caps or
17 whether it just factors into something that's
18 changing relative percentages, and then how that
19 relates to this -- the actual target of the 52
20 million metric tons.

21 One of the concerns we have there is that I
22 think it's important because it's a planning exercise
23 that it would be appropriate for that to be set as a
24 range, and that something I think we've been
25 consistent about is the -- that we would support the

1 ARB target being set as a range.

2 MS. DeRIVI: I'll pick it up from there.
3 This is something that we had tried to emphasize
4 during the February 23rd Workshop, and had appreciate
5 ARB's recommendation dating all the way back to
6 November of 2015, I believe, that there be soft
7 targets or planning ranges incorporated as part of
8 their proposal.

9 And there are a number of important reasons
10 for this. One big one, of course, being what the
11 effect of Transportation Electrification is going to
12 be on the electric utility industry. And that's not
13 just cars and trucks. That's also ships and boats;
14 for example, that dock at the Port of Los Angeles,
15 where they also have a program to electrify ships
16 coming into the Port of Los Angeles, which is a huge
17 impact on load profile for the Department of Water
18 and Power in L.A.

19 There's also turning points for those of us
20 in Southern California that aren't blessed with easy
21 access to a lot of hydro. We got into long-term,
22 out-of-state coal contracts, which require long-term
23 commitments and there are going to be specific
24 turning points that we are working towards where
25 emissions profiles for certain utilities in

1 California are going to change significantly when
2 those turning points actually happen.

3 Those are significantly complicated
4 contracts to try to negotiate out of or early
5 divestiture of, and that's something that certainly
6 need to be recognized, another reason for importance
7 of getting ranges.

8 There's also the impact of change in law,
9 state law and federal law, as we've seen from the
10 recent presidential election, as well as rapidly
11 changing state proposals and state laws here at the
12 California State Legislature.

13 There's also no way of telling how the
14 economy can be impacted. A recession that went all
15 the way up through the middle of 2009, which is one
16 of the baseline target years that Staff is now
17 discussing, can also significantly impact public
18 power and other utility profiles here in California.

19 There's also the issue, of course, of north
20 versus south and what the specific demographics are
21 between Northern California utilities and the larger,
22 highly-urbanized, mostly highly-urbanized Southern
23 California utilities, like the Los Angeleses and
24 Burbanks versus an IID or some of the small members
25 that NCPA has, like Biggs and Gridley.

1 Also something that needs to be recognized
2 and the capability for each of the public power
3 utilities to be able to reach the goals set, and
4 again, why there needs to be ranges.

5 MR. TOMASHEFSKY: Thank you, Tanya. Good
6 afternoon. I want to go back to a point that
7 Chairman Weisenmiller made at the beginning of this
8 discussion on this panel, is this is really the
9 beginning of the dialogue in terms of dealing with
10 this.

11 And so a lot of the initial marching orders
12 and conversations we've had with Staff have really
13 been driven on trying to answer what actually is
14 possible and what's not, and what areas are more
15 challenging and what areas are not.

16 And so we'll talk about those a little bit
17 more when we get into the baseline numerics. But I
18 will say just as a starting point that the timing for
19 understanding how these pieces fit together is really
20 important for us, and I will say for those of us,
21 which is most of us, have been in the trenches of the
22 Cap and Trade discussion and the numbers for a good
23 part of six months, and arguably, for a good part of
24 a decade now.

25 The numbers are important, and how the

1 numbers are used becomes very important, as well.
2 It's one thing to establish a target, but it's also
3 very easy to take that out of context and then it
4 becomes problematic in so many other ways.

5 So it's something even with the best
6 intentions there are things that are taken and run
7 with in different agencies and other organizations
8 which create unintended consequences. And so we want
9 to make sure we've avoiding those type of things.

10 So the dialogue is very, very important
11 here. So with that in mind, really, it's the notion
12 of the range on the Scoping Plan. I think we've got
13 some major decision points that are coming up. As
14 Mary Jane had indicated, in June we have some
15 significant feedback from the environmental justice
16 community that's going to play into an upcoming Board
17 Workshop before that ultimate decision is reached.

18 That may have an impact on what the ranges
19 look like, may or may not, but it's something that
20 needs to be part of the dialogue. So that's an
21 important consideration. The notion of aligning the
22 data with the allowance allocation data, that's very
23 helpful.

24 Questions on whether there is value towards
25 looking at more up-to-date information. There's

1 really no opinion on that at this point, but you do
2 have a lot of S2 data that's coming into this
3 building in the next week or so.

4 So now, you're looking at data that goes out
5 from 2017 through 2026 and not 2015 to 2024. So
6 there are a lot more assumptions that are built into
7 10-year projections that were used two years ago, as
8 opposed to using information that might have more
9 refined insights on demand forecasts, where those are
10 going, and the like.

11 So there's a lot of things that really build
12 into that conversation. And of course, you know, you
13 get into the question of dealing with this, as Tanya
14 had mentioned, electrification. We know that we're
15 about to start that conversation in terms of how that
16 impacts the demand estimates.

17 And it's been acknowledged by the Air Board
18 and here, as well, that there is some important
19 impact that we have to address. But if we lock down
20 on a target before we start to think about those
21 things, we may find ourselves short-changing the
22 impact of those policies in terms of how the numbers
23 fit out.

24 So there's just a lot of things to consider
25 at the highest of high levels. It's certainly worth

1 having the dialogue, and as I said earlier, the
2 conversations we've had not only internally within
3 our own groups and our own organizations, but also
4 with the Staff, has been very helpful, at least in
5 terms of trying to understand what's possible and
6 what's not, and definitely look forward to having
7 more of that conversation in the next 45 minutes.

8 MR. SOKOL: All right. Well, thank you all
9 for kind of the opening comments. I think, just to
10 make sure that we hit kind of each of these topics,
11 there's a lot of ground to cover here. So kind of
12 shift gears to the specifics about the target-setting
13 discussion and really thinking for, you know, we
14 heard highlighted that the importance of having ARB
15 as part of that discussion, of course, and the CPUC,
16 as well.

17 And so we do have representation here. So I
18 think highlighting any of those key issues or really
19 questions or some of the POU specific thoughts, and
20 maybe it's just reiterating some of what already came
21 through in the comments. But as we get towards that
22 third part of the question, are those three options
23 that they've laid out hitting the key points and is
24 this bottom up approach sort of seem like the way to
25 go.

1 MR. WYNNE: So I think we made the argument
2 in the comments that we filed jointly that we had an
3 initial preference for a bottom up approach. One of
4 the main things is that we wanted to make sure that
5 the characteristics of the individual utilities, both
6 their ownership of non-GHG meeting resources, but
7 also any economic differences or any characteristics
8 that should be considered would be factored into how
9 the target is set.

10 I think we are still having discussions and
11 evaluating what that means, and particularly because
12 the way that the original ARB proposal versus the
13 current ARB proposal, because they're so
14 significantly different, it's still a challenge for
15 us to understand what the impact of that change is
16 and how that would affect how each individual target
17 would be set.

18 And it's still -- I think a next step would
19 be more discussion with Staff, because frankly,
20 there's still questions that we were still discussing
21 this morning, or even over lunch, that things that we
22 didn't fully understand. And so it makes it
23 difficult to state an absolute preference for any of
24 the positions.

25 MS. DeRIVI: Tanya DeRivi with SCPPA. I

1 just wanted to clarify that during the February 23rd
2 Workshop I had expressed strong opposing to use of
3 ARB's Allowance Allocation Proposal and wanted to
4 clarify that was the old proposal, now.

5 We have now since in the last few days seen
6 a new proposal. So our answer would certainly be
7 different.

8 MR. TOMASHEFSKY: The other thing that's
9 nice about, if when you start to look at how the
10 Allowance Allocation Proposal was built way back
11 when, in I guess Cap and Trade 1.0, for lack of a
12 better term, it was more of a tops down approach.

13 The fact, I think the comment's been made in
14 public forums that the power sector is really ahead
15 of the curve in terms of where it's expected
16 emissions level would be vis-à-vis the start of the
17 program, which gives us a little bit more flexibility
18 in terms of dealing with the bottoms up approach,
19 that there's -- if there's any concern that the
20 bottoms up approach would not actually yield enough
21 emission reductions, we're actually in a better
22 position to address that.

23 And as we have, again, going back to our Cap
24 and Trade experiences, what's been nice about that
25 proposal is it was designed to deal with each

1 individual utility, and deal with some of their
2 unique aspects of what they're dealing with in terms
3 of forecasts.

4 So there's been a number of instances where
5 demand estimates have been adjusted, and it doesn't
6 have a negative consequence on the rest of the
7 Allowance Allocation Proposal. So it's not pitting
8 one utility or one sector against another.

9 It's basically saying, you know, to the
10 extent that you need some additional consideration,
11 we can provide that. And I think the range has the
12 ability to provide that, as well. So to the extent
13 that you're dealing with a range, it is almost
14 intended to say, okay, this is a proxy of whether
15 people are moving in the right direction.

16 But in fact, actually, if you align it with
17 the objectives of the Cap and Trade Program, the cap
18 by definition should bring down the emissions factor.
19 And if you look at what's built into the Cap and
20 Trade Proposal with the 50 percent renewables and
21 hydro and other things that are backed out of it,
22 there's -- you go a long way down the path at
23 actually reducing your emissions by a significant
24 amount, just by virtue of following along those
25 lines.

1 This provides another proxy to kind of look
2 at it, and it raises the question, too, of just kind
3 of thinking along the lines of you could even
4 consider whether you really need to look at it on a
5 raw data basis, or even a carbon intensity basis.

6 It gives you options to address the issues.
7 So we don't want you to go down -- too far down the
8 path without thinking that there's other options to
9 accomplish the same objective.

10 MR. SOKOL: Okay. So I think on that note,
11 you know, those are some good points, and we'll look
12 again to the written comments once your members have
13 had a chance to digest a little bit and provide
14 feedback. But shifting gears here to the baseline
15 discussion.

16 And I know it's -- some of that's been
17 discussed for a while now as, you know, sort of a
18 non-regulatory, informative baseline that can be used
19 to help illustrate progress towards GHG reductions.
20 And so thinking through, what are the -- you know --
21 I mean, you heard the Staff proposal today, so sort
22 of initial reaction to that.

23 You know, what factors maybe weren't
24 considered or different considerations that we should
25 focus in on as we try to finalize that.

1 MR. WYNNE: Yeah. So the POUs understand
2 that there's a need for greater data on GHG emissions
3 and that it would be useful having metric that would
4 measure relative GHG performance over time. I think
5 one of the primary goals should be that whatever
6 metric is developed, it should be clear, have
7 accurate information, but it should also be readily
8 understood by the public and have value in what it's
9 conveying.

10 In our initial discussions I think it's
11 possible that a baseline metric could serve that
12 function. Just in our -- when we were going through
13 the proposal some of the things that stood out would
14 be that you're going to have -- for the IRP POUs
15 you're going to have 16 different baselines.

16 And understanding that this is separate from
17 the IRP, you will have GHG targets or GHG ranges for
18 each of those entities. And so each POU will have a
19 different percentage of reduction that it will need
20 to achieve from its baseline to get to the range or
21 the midpoint of the target.

22 And so that causes some confusion because
23 what I actually did is I took the numbers from the
24 proposal in the baseline presentation and I compared
25 them to the targets that were in the IRP target

1 setting.

2 So there was the 2030 projections and then
3 there was the division of the 52 metric million
4 megatons. And every single utility has very
5 different percentages that they would get between
6 either of those numbers.

7 And for example, SMUD, they have a much
8 smaller distance to travel just because of where they
9 were in 2009. So they, maybe 20 percent or 25
10 percent reduction. Whereas, a number of other
11 utilities have to go with 60 percent below that.

12 And so if you were just looking in isolation
13 at a baseline and percentage below that baseline it's
14 not necessarily conveying the information about how
15 that utility is doing overall in GHG performance
16 because we're operating off of such different data
17 points.

18 And then if you're aggregating that into a
19 single chart -- I'm struggling in those -- with all
20 the different -- with the sweeping different amount
21 of information that would need to be conveyed I think
22 that that could lead to confusion.

23 One other element of problem with baselines
24 would be it doesn't take into consideration increases
25 or decreases in load. And so as that utility may be

1 growing or the utility is, through energy efficiency
2 programs or its load is reducing, if you're just
3 looking at emissions compared to the baseline it's
4 not necessarily telling you that story.

5 An important element of that would be
6 Transportation Electrification. So you could have a
7 utility that substantially increased its load or kept
8 its load constant because of Transportation
9 Electrification. There's a GHG benefit associated
10 with that, but it looks like they're performing
11 poorly in reference to a baseline.

12 The one other element is that there is a lot
13 of data that is going to be out there, because we're
14 going to have the IRP targets and everything that's
15 in the IRP. We're going to have AB 1110 that I think
16 will be discuss a little bit later, which will give
17 you an intensity.

18 But then we also just have compliance and
19 reporting that goes on for the Cap and Trade Program,
20 and when you introduce the baseline, I think one of
21 our fears is that there could be confusion. So I
22 think where we're at is that there can still be a
23 well designed metric.

24 And maybe this is a good starting point for
25 that, but it would need to -- our recommendations

1 would be it would need to find some way of conveying
2 to the public something that is valuable without
3 causing more confusion.

4 MR. SOKOL: Gotcha. And I think I just
5 would add, too, so in addition to sort of concerns
6 and topics that we should consider in the
7 establishment of this baseline methodology we'd be
8 interested in hearing what are the alternatives that
9 we should be considering.

10 So you mentioned that there's probably a
11 metric out there and I think we'd be interested to
12 hear if there are some thoughts about what that would
13 look like.

14 MS. DeRIVI: Tanya DeRivi, SCPPA. I wanted
15 to add to what Justin had just said, just some
16 fundamental concerns about a one set methodology
17 working well for everyone. Again, the north versus
18 south utility divide amongst public power is fairly
19 stark when it comes to issues like saying 2009 would
20 be a good year to use because it's a average hydro
21 year.

22 Well, really, the only average hydro that we
23 have coming out is Hoover Dam, which we have long-
24 term contracts for through an act of Congress to the
25 year 2067. So that's great, but that's a set amount

1 for a select number of utilities, and southern
2 California doesn't nearly resemble the resources for
3 hydro that northern California utilities have.

4 So that would be a concern for us. We also
5 have, for example, the Inland Empire is one of the
6 fastest growing urban or metropolitan MSA areas in
7 the entire State of California. The population
8 growth between the year 2000 and the year 2010 was a
9 30 percent increase in population growth.

10 So for public power utilities like
11 Riverside, for example, they're going to have a
12 significantly different profile serving load between
13 those years. And that area only keeps growing
14 because it's so expensive to live in downtown Los
15 Angeles, an urban area.

16 And then there's also the concern that the
17 baseline metric, if it is published and available for
18 folks to take a look at to measure specific things
19 against, that it could result in something we saw
20 this year, which is an introduction of a state bill
21 to try to codify an Energy Commission tracking
22 progress report related to coal.

23 That created quite a number of concerns for
24 those of us in southern California that have long-
25 term contracts for coal that we are diligently trying

1 to negotiate early departure from, but that's just
2 one of the unintended consequences that could
3 potentially come up if baseline data is used as sort
4 of benchmark.

5 So this is one example that where maybe
6 deference to local governing boards could be
7 something that is evaluated by CEC Staff, since they
8 are certainly the most knowledgeable of how their
9 load profiles have changed, could change,
10 particularly for Transportation Electrification, for
11 example, when you compare highly urban areas versus
12 more rural or agricultural areas where that might not
13 take off quite as much, so.

14 MR. TOMASHEFSKY: I had an opportunity to
15 mine some of the data just to figure out what's there
16 and what not. As a starting point to that, one of
17 the interesting aspects of the -- just the IRP
18 process is by virtue of answering a lot of the
19 questions that are written in SB 350.

20 Many of the -- and that's where I -- when I
21 see the informative non-regulatory it definitely gets
22 my dog ears to go up in terms of why that may not be
23 such a bad thing, just in terms of, there's a lot of
24 checks and balance that are going to go through this
25 whole process, and we have statutory requirements

1 dealing with the RPS Program and Cap and Trade and
2 all those things.

3 So there's a lot of things that kind of
4 direct us to go in certain directions. Dealing with
5 the numbers and the proxies becomes the second
6 objective. And to see that in a slide is helpful,
7 and then it becomes a question of how do you actually
8 apply that.

9 And that's been the interesting dynamics
10 we've had over the last few weeks to kind of ask some
11 of the questions. Kevin had posed a question about
12 what's the potential for actually coming up with a
13 1990 level, and so when Staff comes up with a 2009
14 level I'll get into some of the concerns with that.

15 But let me go through the 1990 exercise that
16 we went through, as it depends on who you ask that
17 question whether it's doable or not. And what you
18 find is, my kind of -- my analogy is that when I was
19 here at the Energy Commission in 1996 I got email.

20 And so when you think about the fact that
21 prior to 1996 you're looking at 1990 data that pre-
22 dates the Power Source Disclosure Program. It pre-
23 dates a market design. It pre-dates any allusions
24 towards an RPS program, an Energy Efficiency Program
25 and a lot of things related to that.

1 And so the decision points in terms of
2 what's there and also the data that support that
3 information is definitely sketchier. You start to
4 deal with things like having data on tapes as opposed
5 to having data available just by hitting a couple
6 buttons and clicking.

7 And so it becomes more of a challenge to get
8 that information. And also what happens is when you
9 start to deal with the unspecified aspect of a
10 resource you're dealing with bilateral contract,
11 blended resources, you don't really have any paper
12 trail in the old U-tags that are really tied towards
13 climate.

14 So you're starting to look at data that
15 really wasn't intended to ever be used in the form
16 that we're looking at today. So it becomes
17 problematic. So the further you go back in time to
18 come up with a pure number, it becomes a little bit
19 of a challenge.

20 And so the 2009 estimate, at least in terms
21 of a first order for a conversation, is at least
22 something to think about because there's some logic
23 behind why you've chosen that, but there's still
24 issues surrounding that.

25 And it does raise the question of, is that a

1 representative number. You still have an RPS that's
2 20 percent by 2017 or 2020. Depending whether you're
3 an IOU or a POU, it's a little bit different. We're
4 just starting to get into the energy efficiency data.

5 The greenhouse gas stuff we're just at the
6 point where we're actually adopted a program to deal
7 with the Cap and Trade Program, but we really haven't
8 dealt with the mechanics of it, and where we are
9 today is much different.

10 So the dynamics of the data we collect today
11 can answer that question much, much more clearly than
12 it can going back further. I did ask the question,
13 and here, just to give you an example, I didn't
14 really know where our 1999 Power Source Disclosure
15 Report is, so I called over here to find it.

16 So I was actually -- somebody sent it to me
17 by email. So that was good and it was interesting to
18 see that, because there's a fairly wide distribution
19 of resources that are tied to our Power Source
20 Disclosure Report, but that's not commonplace.

21 So if you look at some of the other filings
22 that were submitted in that time it does go back to
23 the situation that the data isn't really granular
24 enough to get there. So we get into the challenges
25 of dealing with data granularity.

1 And finding an appropriate baseline, as
2 Tanya had mentioned, depending on what your
3 circumstances are, you can build a case for any
4 particular year to be your year, in terms of dealing
5 with resource decisions that were made from 1990 that
6 were tied to different things.

7 So the notion of why utilities' resources
8 are the way they are, are a reflection of what the
9 policies were at that time. So try and take a number
10 and then tie it back to that particular year as a
11 snapshot in time becomes a little bit more of a
12 challenge.

13 So you get into that. You have the early
14 action aspect of things that we do to green up our
15 portfolio, and we were given a lot of statutory
16 incentives to do those things. The Cap and Trade
17 Program gave us additional allowances for taking
18 early action and renewable procurement in 2007 to
19 2010.

20 If you use the wrong baseline you may
21 inadvertently factor that in and now ask someone to
22 do more. So you just start to build into those types
23 of issues. You get into hydro variability. We just
24 had a five-year drought. That didn't work for the
25 last compliance period for Cap and Trade, but yet

1 it's the reality of where we are.

2 It may help us next year. We have -- well,
3 2017 will be a very different year. So we have to
4 deal with those things. And then also, the other
5 thing that's certainly new in the -- you know -- in
6 the current version of what we do is financial
7 trading, you know, REC procurement and carbon
8 procurement.

9 The program is designed to deal with market-
10 based incentives to be able to do more. And so to
11 the extent you do more, numerically you can sell off
12 those numerics in terms of some of the things we
13 report, but in fact the clean energy investments are
14 being made. And so you have to be very careful about
15 dealing with that.

16 So kind of going back to my initial point,
17 the dialogue is really important. I don't -- I
18 couldn't certainly sit here and say I think 2009's a
19 great approach. I can certainly say I understand the
20 approach, and I don't think that's a -- you know --
21 it's not a -- it's a rational way of looking at it,
22 but there's a lot of other questions that need to be
23 addressed.

24 And I think that's the dialogue that we need
25 to have going forward, and it also needs to be fed by

1 ultimately what comes out of the final Scoping Plan
2 conversation and really understanding what's in that
3 range and how it all fits together. A little long-
4 winded, but that's kind of a basis for it.

5 MR. SOKOL: All right. Well, thank you with
6 that. And you know, I think we'll look for, again,
7 the written comments to sort of fill in some of those
8 gaps and highlight those issues that you listed
9 there, and then continue the conversation, the
10 dialogue going forward and make sure we get the right
11 methodology there.

12 So just to connect the dots with the rest of
13 today's Agenda, we've heard a lot of discussion
14 around the Power Source Disclosure Program, and
15 you'll notice on the schedule next to that there's a
16 brief kind of overview of the Staff vision for how
17 that fits with tracking, you know, GHG emissions
18 moving forward.

19 But I was curious to hear from sort of the
20 POU perspective, if that has been part of the
21 conversation with the members. I know it was
22 highlighted at the February 23rd Workshop, the
23 connection with, you know, the GHG Intensities Power
24 Source Disclosure. But I wonder if you wanted to
25 speak a little bit about how the POUs are envisioning

1 sort of that connection being made.

2 MR. TOMASHEFSKY: Sure, I'll be happy to
3 start that. And I will preface to say, we still have
4 a lot more to talk about. The -- and really, the
5 conversation started with the 1110 discussions as we
6 were getting towards the end of it.

7 And I recall going back to -- even further
8 back to that when NCPA was sponsoring either 162 or
9 2227, I can't remember anymore. But I remember the
10 question being asked during a legislative hearing
11 about, should there be a carbon intensity factor on
12 the power content label.

13 And we said, at the time we needed to kind
14 of deal with the issue of unspecified power. But
15 that's something that should be addressed, and
16 obviously, that's become a part of the 1110 process.
17 So trying to figure out how that fits into the
18 equation of dealing with emissions, you start to get
19 into the carbon intensity factor related to that.

20 You are going to end up with certain things
21 in there where you have to accept the fact that the
22 data's not going to be perfect, even though you have
23 a lot of mined data, you know that the data that goes
24 to the Air Board in terms of emissions is going to be
25 a year behind. You know that part's going to be

1 problematic.

2 The question of unspecified resources,
3 there's been questions about how to -- whether to
4 calculate that, whether to be more granular. The
5 Commission about 10 years ago focused on a Pacific
6 Northwest number, and a southwest number and they had
7 two different numbers, and that proposal was rejected
8 at that particular time.

9 Those are certain things that need to be
10 addressed again in terms of how you look at it. When
11 you start to look at an expanded regional market and
12 you start to look at data from EIM and CAL ISO data
13 that flows in, there's a lot more information that
14 needs to be fully understood to try and calculate
15 those things.

16 I think that's an important consideration
17 when you start to look at the fact that the 1110
18 implementation is not supposed to be effective till
19 the 2019 reporting year. So it gives us some time to
20 look at it.

21 But I do think we have to be very careful as
22 to how we use that and to make sure that we're
23 generally applying the same common set of principles
24 when it comes to looking at that data. You can get
25 the California resource fairly straightforward.

1 You can get imports to some extent, but some
2 of the unspecified resources still make that a bit of
3 a challenge in terms of how we use it. So again,
4 going back to the informative aspects, the non-
5 regulatory aspect, from the Agency's perspective, if
6 you're using it for purposes of saying, every couple
7 years when you look at the IEPR and you say, well,
8 here's kind of our snapshot of where we see things
9 going and we're using this information to highlight
10 where we have areas where we're vulnerable in terms
11 of maybe there'll be areas where the power sector
12 isn't doing what it should, that's the information
13 that's informative to use so that you can make policy
14 decisions based on that.

15 I get concerned if the information that was
16 provided on an individual basis was a way of pointing
17 the finger at someone saying, they're not doing
18 enough, as opposed to helping answer the macro
19 questions for you, as whether the power sector and
20 the state's moving in the direction of 2030.

21 That should be the fundamental objective of
22 any of this information that's included in not only
23 here but resource planning as a matter of practice.

24 MR. WYNNE: I think the only thing I would
25 add is that as it relates to the IRP, because I know

1 one of the proposals in the CPUC paper going back
2 sometime was to align, or potentially align the IRP
3 GHG targets with the AB 1110 intensity mechanism.

4 And if I'm understanding things correctly,
5 that would be more the way that the public would be
6 perceiving it. Whether we have an intensity metric
7 or whether we have a mass metric, the underlying
8 assumptions would be the same.

9 And so you wouldn't really be changing
10 anything fundamental about the actual targets or what
11 it takes to get to those targets. It would be more
12 just how it's presented. And so I don't think that
13 we have a clear position that we would be opposed or
14 supportive of more directly aligning the IRP targets
15 with AB 1110. I think it would just depend on what
16 the actual impact of that would be.

17 MR. SOKOL: All right. well, I think that's
18 useful, and you know, I just wanted to connect back
19 with, you know, one other topic, and that's looking
20 at, you know, there's all these other SB 350
21 initiatives going on.

22 We have the Energy Efficiency Doubling
23 Effort. We have Transportation Electrification,
24 which has been, you know, a big topic of
25 conversation. We have a number of workshops, the

1 Energy Commission does, over the next month or so
2 that look at a number of these specific topics.

3 So I wanted to touch on, you know,
4 Transportation Electrification. I mean, that seems
5 to be a piece that's really been highlighted in the
6 POU comments thus far, and I think, you know, are
7 there other -- how should -- what do you want us to
8 focus on as we move forward with this GHG target
9 setting discussion?

10 I think there were some written comments
11 that talked about this, but as we get to the POU-
12 specific targets how do we factor that in to making
13 sure that sort of this -- the division, the
14 allocation is done correctly here?

15 MR. TOMASHEFSKY: What's your timing for the
16 target? I know that when the airport was talking
17 about that, you know, their official answer is that's
18 the next step. So it's the next rule-making we deal
19 with on electrification.

20 So when we look at the impacts on carbon
21 allowance and how that fits in we know we're not
22 going to have a resolution on that for several years.
23 And we certainly know it's not going to be in the
24 regulations until we're probably in the post-2020
25 period.

1 So with that in mind, how does that fit into
2 your expectations of using that particular number?
3 Or do you just use it and say, well, we have an
4 asterisk because we haven't really -- we haven't come
5 to resolution on this particular issue and the
6 agencies are working on that?

7 MR. SOKOL: I mean, so that's a good
8 question. You saw the ARB kind of schedule for this
9 joint process and that's what we're sticking with for
10 this round, essentially, is the CPUC and us are going
11 to do joint workshops with ARB, and then there's
12 going to be the formal process afterwards.

13 And so the timing on that sounds like it's a
14 little inconsistent, but I guess I would flip it back
15 to you, to the POU's, from your perspective, is how
16 does all that timing work out with the development
17 of, you know, the first round of IRPs and everything
18 moving forward?

19 MR. WYNNE: I think the overall comment, and
20 correct me if I'm wrong, is that a POU that is
21 increasing load due to Transportation Electrification
22 or just fuel switching in general, the GHG target
23 should take into account the GHG reduction associated
24 with those fuel switching so that you wouldn't be
25 viewed as missing your target if you had had very

1 high levels of Transportation Electrification, and
2 the actual impact, the actual impact to the climate
3 is the same as if you had met your target.

4 I think that's a concept that's there, but I
5 think what Scott is hitting on is we're not expecting
6 the Cap and Trade Regulations to address this issue
7 until a subsequent rule-making, and so we don't fully
8 know -- it's hard to make specific proposals about
9 how that will function before ARB has set the -- how
10 that operates within the Cap and Trade Regulations.

11 MS. DeRIVI: And I will add, I think --
12 Tanya DeRivi, SCPPA. I think what would be really
13 helpful is if the Energy Commission and the Air
14 Resources Board could work together in the interim to
15 develop that estimation methodology for electric
16 vehicles, and what the emissions profile would look
17 like so that can be recognized under the Cap and
18 Trade Program, with the subsequent rule-making.

19 I'm not sure how quickly that can happen,
20 but in the interim I think that would probably be the
21 most helpful thing, to help not just public power,
22 but also the IOUs and the CCAs, as well.

23 MR. TOMASHEFSKY: And from a numerics
24 perspective one thing just to consider. Again, not
25 to suggest we have this fully baked at all. But to

1 the extent that you're dealing with additional load
2 impacts, it makes a basis for dealing with target
3 setting from a carbon intensity standpoint so that
4 you start to get away from the twofold problem of how
5 do you deal with additional load, and then how do you
6 deal with the additional emissions.

7 And what you're trying to do is you're
8 trying to reward being more efficient and less
9 carbon-resource focused in terms of what you use when
10 you are actually -- when your demand actually is
11 there. And so to the extent that you are -- to the
12 extent that you're lowering, lowering the carbon
13 aspect of your resource as you go down allows you to
14 say, yes, I'm moving towards the state's goal of
15 becoming more carbon -- a lower carbon resource.

16 But at the same time, I'm also not having to
17 address the particular issue of something I have no
18 control over. So to the extent that electric vehicle
19 load and building efficiency load and other things
20 that are being pushed by state programs are working
21 their way in, and for good reasons, at the same time
22 you want to make sure that the utility doesn't have a
23 reason to not incorporate those type of things, so
24 that they're not being penalized for basically just
25 implementing state policy.

1 And so to the extent you deal with an
2 emission factor and an emission intensity, you tend
3 to at least ignore a portion of that problem. It
4 goes away. Not that it entirely goes away, but at
5 least it allows you to say, okay, now I'm still
6 focusing on what type of carbon resources am I
7 actually providing to serve load to those customers.

8 And we're not going to worry about the fact
9 that you've now put x amount of additional load on
10 our system because of a deployment of electric
11 vehicles in the state.

12 MR. SOKOL: All right. Well, thank you for
13 that. I think at this point, again, we're a little
14 ahead of schedule, but I wanted to turn over to the
15 Commissioners and see if they had anything else.

16 CHAIRMAN WEISENMILLER: Had a couple
17 questions. I mean, the first one was, obviously,
18 this -- you know -- we've been doing Power Source
19 Disclosure for a while. You know, I think one of the
20 things that this is calling out is, you know,
21 certainly looking at the trends.

22 You may find a few "oops" in the data that
23 came in, and so certainly, it's probably a good time
24 to look at the trend and see if anything pops out as
25 a problem. And certainly, talking about the year,

1 again, that's something begins -- I'm thinking your
2 comments will be helpful.

3 I mean, obviously, if you were to say an
4 average of 2009 and 2000 -- you know -- a rolling
5 average or some way of averaging a couple years to,
6 again, deal with something that was anomalous in a
7 particular year would certainly be interesting.

8 But I think part of it is -- you know -- the
9 thing that pops out, again, facts are facts, is that
10 some POU's ultimately have more difficulty than others
11 getting to their 2030 number. And so again, we've
12 had different approaches on how you might do this.

13 If I recall correctly from the first Scoping
14 Plan there was some degree of negotiations saying,
15 okay, this is where the utilities as a whole have to
16 get to; now, how do you -- do you assume everyone
17 makes an equal contribution or is there some way of
18 shuffling.

19 And -- or at least I assume that that sort
20 of thing, you know, would have to come out of
21 settlement negotiations of, you know, once, obviously
22 again, recalling everyone, we're sort of marching
23 forward, the Energy Commission to set in place some
24 sort guidelines, you know, quickly.

25 At the same time, that will bake in some

1 planning assumptions, realizing that ultimately the
2 ARB's going to adopt something, you know, in
3 consultation with the three of us and it's unlikely
4 it's going to match exactly what this midpoint is.

5 But certainly, if parties could, either the
6 IRP POU's or the POU's as a class or all the utilities
7 could come up with something that meets the ultimate
8 ARB target, I'm assuming that might end up not
9 exactly equal percentages, but again, exactly how
10 that evolves over time, you know, but at least to
11 start getting people thinking about.

12 As you look at the intensities I think it's
13 a pretty clear message some have it harder than
14 others. So I think, again, just obviously, you know,
15 I'm sure none of you are prepared to sign off on
16 anything at this point.

17 Back on the question of ranges, I think,
18 obviously, the issue that concerns all regulators is
19 that we can't be in a position where there's a range
20 and everyone shoots for the high number in the range
21 and we discover ultimately we just can't get there.

22 So you know, I think that -- or that people
23 have chosen various portions of the range and then
24 we're asked to say, okay, the POU's are on track or
25 not, and we kind of respond to that. So again, to

1 encourage people to think more of somewhere in the
2 range as a planning basis, knowing that ultimately
3 you're going to have to true up to whatever the ARB
4 ends up at, because I doubt if they're going to adopt
5 a range, but you know, maybe they will.

6 I think one of the questions also I wanted
7 to ask, and I don't know who wants to chime in, but
8 you probably notice that President Picker and I have
9 set up an en banc at the POU dealing with how the
10 changes in technology and customer choice is starting
11 to really affect the IOUs.

12 I don't know what the POU reaction is to
13 those changes. If anyone wants to chime in, please
14 go ahead. Obviously, you're not invited, at least at
15 this point, you're not invited to speak, though I
16 think I could arrange it if anyone wants to, but.

17 MR. TOMASHEFSKY: I'll be happy to watch.

18 CHAIRMAN WEISENMILLER: That's what I
19 thought

20 MR. TOMASHEFSKY: This time; more than happy
21 to watch. No. I think there's, you know -- clearly,
22 we don't have the direct CCA impact just in terms of
23 setting up shop, in terms of statutory requirements
24 of they're not going to set up in municipalities.

25 But the notion of how you're dealing with

1 distribution services and DER and all those other
2 things, those are certainly relevant and those are
3 things we're watching really closely. It's raising
4 the question about how that does impact what we --
5 you know -- how we operate in the future.

6 So that's not something we ignore. Now,
7 being on the outside of the initial part of that
8 conversation you could sit there and say, well, we
9 know that there's a propensity of CCAs. We know the
10 question of direct access is always in the
11 background.

12 Those procurement decisions actually impact
13 the markets. And so you start to look at the way we
14 procure resources. They do have impacts on us.
15 Over-generation impacts the markets. Even though we
16 aren't over-generating the same way doing the IOUs,
17 it doesn't impact the pricing and it impacts dispatch
18 and it impacts investments that we make.

19 So we do watch those really carefully. And
20 short of being invited to speak on those things,
21 which we don't want to do, we certainly want to hear
22 what you have to say. I do want to -- if you don't
23 mind, I just wanted to respond back to one of your
24 comments, which donned on me that when we talk about
25 individual targets and we talk about the aggregate

1 target-setting, one of the things that you've built
2 into your RPS program is the alternate compliance
3 options.

4 And so to the extent that there are reasons
5 to not make it to a certain percentage in terms of
6 renewables for good reasons that are actually defined
7 in regulations and statutes, what we don't want to do
8 is we don't want to turn around and then look at the
9 greenhouse gas target and say, well, okay, we got you
10 here because you actually didn't make it because you
11 didn't comply here, when in fact, actually, we were
12 still following the rules.

13 So as you start to look at the impacts of
14 public power on carbon resources and greenhouse gas
15 targets it is always good to ask the question about,
16 how does that step up to the aggregate level. And
17 then as you look at it individually, you're still
18 sort of going back and forth to say, are we generally
19 going in the right direction.

20 And I think that's -- if I'm not mistaken, I
21 think that's the objective here is to say, is the POU
22 community moving in the right direction and cleaning
23 up resources, making them greener, dropping the
24 carbon intensity level?

25 To the extent that there's individuals that

1 have certain circumstances, it's the same story we
2 tell to you often as far as there are reasons for not
3 necessarily getting there, notwithstanding the fact
4 that we're not looking to say nowhere, basically,
5 there are circumstances that don't make that
6 possible, but we're all moving in the right
7 direction.

8 So I just wanted to kind of throw that out
9 as a basis for when you start to look at it, scaling
10 up and scaling down, and we're constantly having to
11 do that to understand what's happening behind the
12 curtain when certain things -- some things may not
13 look exactly right at the lowest level. There might
14 be a reason that that's tied to other rules and
15 regulations.

16 CHAIRMAN WEISENMILLER: Well, certainly, I
17 think, you know, again, we started out, I think we
18 both sent letters back and forth, but obviously, my
19 responsibility is to implement the laws and your
20 responsibility is to follow -- you know -- also to do
21 so.

22 And so at this point we're in agreement on
23 where we need to get to. Obviously, the IRP process
24 is a way to sort some of that out; certainly, an
25 opportunity to look at some of the tradeoffs between,

1 you know, additional energy efficiency or
2 Transportation Electrification or whatever.

3 You can certainly look at a variety of
4 tools, and you will in the IRP context, and at the
5 same time it's good to start having the discussion of
6 just, you know, what are the challenges, and
7 obviously, realizing some of you are more challenged
8 than others.

9 MR. WYNNE: One other comment I would make
10 is that our understanding of the IRP is that it's a
11 planning -- the primary purpose is a planning
12 exercise and that the role that a range would place,
13 because the range is based off of mid-case scenarios,
14 is that you would factor that into your planning.

15 Then you would show in your planning that
16 you're on target to fall within that range, based off
17 of these assumptions. As far as compliance, we
18 wouldn't view it as -- is that the compliance would
19 be with the underlying requirement.

20 So I think RPS does very clear compliance,
21 and you can be out of compliance with that. And
22 because we're pushing towards right now a 50 percent
23 RPS by 2030, in combination with the fact that the
24 utilities might not have direct obligations under the
25 Cap and Trade Regulations, but they're purchasing

1 power from a market that is under the Cap and Trade
2 Regulations.

3 Also, with neg energy metering, energy
4 efficiency, with all of these things the utilities
5 are pushed towards these targets, and if they were
6 out of -- if they're out of compliance with the RPS
7 that is a direct -- you know -- there's potential for
8 penalties under that.

9 And so one of the things that we hear a lot
10 is that we shouldn't be viewing a utility who is
11 putting the targets into the planning of the IRP and
12 there's [sic] not going to be on target for any --
13 you know -- within the range, that that wouldn't be a
14 compliance issue where they would be subject to
15 enforcement for that.

16 I know that there were -- it's important for
17 us, how the actual statutory language was structured,
18 with it being recommendations that would come from
19 the CEC, but that it's not a matter of being out of
20 compliance, and that there's other very severe
21 penalties for the actual elements that make up the
22 enforceable requirements that are part of the IRP.

23 So it's just one of the things that we
24 consistently hear, is that it's important that when
25 we're looking at the IRP the focus is that this is on

1 planning, and I think that's part of why we're coming
2 from the position that a range makes sense.

3 CHAIRMAN WEISENMILLER: Yeah. Thank you.
4 And we're looking forward to your written comments,
5 and let's go -- we have some public comments. Let's
6 go to the last presentation, and then we'll take
7 public comment and questions. Thank you.

8 MS. RAITT: Great. Thank you to our
9 panelists. The last speaker is Jordan Scavo from the
10 Energy Commission to talk about Greenhouse Gas
11 Accounting with AB 1110, Power Source Disclosure.

12 MR. SCAVO: Hey, everybody. Jordan Scavo,
13 and I'm here to give you a brief update on the Energy
14 Commission's efforts to implement AB 1110, which
15 includes the development of a Greenhouse Gas
16 Emissions Accounting Protocol that can be leveraged
17 by the IRP process.

18 Passed last year, AB 1110 modified the Power
19 Source Disclosure Program to require reporting
20 entities to disclose the greenhouse gas emissions
21 intensities for any electricity portfolio offered to
22 their customers.

23 These disclosures will be found in the power
24 content labels beginning in the year 2020. To
25 implement AB 1110 the legislation directs the Energy

1 Commission to adopt a methodology in consultation
2 with the Air Resources Board for calculating GHG
3 emissions intensity factors for each electricity
4 portfolio and for the statewide electricity system.

5 In doing this legislation directs the CEC to
6 rely on the most recent, verified GHG emissions data,
7 and the legislative intent includes having the CEC's
8 approach be consistent to the extent practicable with
9 the approach taken by ARB under its existing
10 programs, including the mandatory reporting
11 regulation and Cap and Trade.

12 So we are developing a GHG Emissions
13 Accounting Protocol which will establish emissions
14 factors for specific facilities, for unspecified
15 power, as well as determine how to calculate total
16 emissions for utilities' portfolios.

17 The Commission has identified an opportunity
18 to better align reporting requirements for these
19 programs by leveraging the GHG Emissions Accounting
20 Method in the IRP Guidelines. The Guidelines are
21 expected to refer to the Power Source Disclosure
22 Regulation for the specific emissions accounting
23 method for utilities to report in their IRPs.

24 This means that the public rule-making
25 process under Power Source Disclosure will be the

1 forum for stakeholder input in the GHG accounting
2 assumptions for IRP reporting. Because of this
3 alignment, the Power Source Disclosure Program may
4 serve as a progress tracking tool for the 2030 GHG
5 targets.

6 And finally, as the multi-agency effort to
7 develop utility-specific GHG emissions targets
8 advances, we'll be following its progress in order to
9 align our AB 1110 implementation efforts to support
10 these activities as best as possible.

11 The Energy Commission held a workshop
12 February 21st to kick off our pre-rule-making
13 activities and to solicit input on the topics that
14 should drive AB 1110 implementation efforts. We
15 received comments from the broad set of stakeholders
16 and we're currently in the process of analyzing those
17 comments.

18 Presently, Staff believes we have enough
19 information from the comments received to develop a
20 conceptual proposal for how AB 1110 can be
21 implemented. We are aiming to present this strawman
22 proposal to the public at a workshop in June, and
23 depending on the feedback we receive on our
24 conceptual proposal, we would like to have proposed
25 regulatory language ready by September and to

1 initiate formal rule-making activities later in the
2 year with a goal of presenting final regulations for
3 adoption at a Business Meeting in the second quarter
4 of 2018. That's it. Thanks.

5 CHAIRMAN WEISENMILLER: Thank you.

6 MS. RAITT: Thank you, Jordan. So with
7 that, we can move on to public comments. If you do
8 have a -- if you wanted to make a comment, please
9 fill out a blue card and give it to me. And I know
10 we have one blue card and we have a couple -

11 CHAIRMAN WEISENMILLER: I'm just going to
12 start with Robert Stanley, if he's in the room.
13 Please come on up.

14 MR. STANLEY: Hello. I'm Robert Stanley,
15 with Stanley Green Energy, and I have a couple
16 inventions I'd like to tell you about. I invented a
17 solar structure that goes up the canals, and so it --
18 because my philosophy with my company is to make
19 power where it's needed, and there's all these
20 pumping plants around that use up a tremendous amount
21 of energy.

22 And so having solar right nearby would be a
23 great way to power some of the power -- the water
24 pumps. And it also has robotic cleaners for the --
25 to clean it. And hopefully, I'm wanting to sell it

1 to the State of California some day, to reduce
2 greenhouse gas emissions.

3 And then I have a second invention, the
4 solar cement plant. The first time I invented it, it
5 didn't work and I had to redo it, and but I made it
6 so it works this time, and it's -- there's another,
7 competing patent where they send the energy right
8 through the side of the solar -- of the cement
9 clinker chamber, and mine bounces the light through
10 the ends of the chamber instead of the sides.

11 And so I'm hoping the Energy Commission can
12 get someone to help to build my prototype, whether
13 that be China, Mexico or some southern California
14 cement plant. That's all.

15 CHAIRMAN WEISENMILLER: Thanks. Thanks for
16 being here.

17 MR. STANLEY: All right.

18 CHAIRMAN WEISENMILLER: Thank you.

19 MR. STANLEY: You have any questions?

20 CHAIRMAN WEISENMILLER: No. Thank you.
21 Anyone else, public comment in the room? Any public
22 comment from anyone online?

23 MS. RAITT: So we do have two from WebEx
24 that are written in that I could read into the
25 record.

1 CHAIRMAN WEISENMILLER: Please.

2 MS. RAITT: Okay. One is from Dan Severson
3 and his comment was that any baseline should consider
4 the facts that some POU's also operate as balancing
5 authorities.

6 And the second one is from Adam Diamant, and
7 he -- these are questions to David Vidaver, I
8 believe. Can you explain at a higher level what it
9 means for LSE and POU to have a "greenhouse gas"
10 target in a Cap and Trade world?

11 Under Cap and Trade a POU can emit as much
12 GHG as it desires, as long as it has sufficient
13 allowances to cover emissions. And the second
14 question is, do you mean by target GHG allocation?
15 And David Vidaver is here to talk to these a little
16 bit.

17 MR. VIDAVER: Well, I'll take the second
18 question first. Says here, do you mean by target,
19 what do you mean by target GHG allocation. It would
20 be the share of the POU's -- the POU's' percentage
21 share of whatever sector-wide target is adopted by
22 ARB.

23 So the word "target" comes from the ARB's --
24 from the legislation, of course, but refers to the
25 target that ARB adopts for the IRPs collectively.

1 The first question, can you explain at a higher level
2 what it means for LSE and POU to have a GHG target in
3 a Cap and Trade world. Under Cap and Trade a POU can
4 emit as much GHG emissions as it desires, so long as
5 it has sufficient allowances to cover emissions.

6 Wow. I feel like I'm probably one of the
7 least qualified people to answer this, and there are
8 people in this room who have far stronger opinions
9 about the answer to that question than I do.

10 As some of our panelists pointed out, the
11 GHG target is a planning target, the target assigned
12 to each utility based on the methodology that we've
13 proposed, Staff has proposed. And the targets set
14 forth by ARB for the sector would merely be a way of
15 allocating a sector-wide target that is I would say
16 ARB's best estimate of how the electricity sector
17 will contribute to reducing GHG emissions on an
18 economy-wide basis for 40 percent from 1990 levels in
19 2030.

20 And Staff's allocation and proposal is
21 merely a way of equalizing the expected cost of each
22 utility's achieving contributions to that target and
23 ultimately result in its realization. And ARB's Cap
24 and Trade is designed to make emissions reductions as
25 efficient as possible, having measures that are.

1 Those entities that can adopt measures or
2 implement measures most cheaply do so, do so, and
3 those who can't do so cheaply have to buy emissions
4 allowances. We're simply putting together emissions
5 reduction targets that hopefully level the playing
6 field for all entities.

7 And if they don't, as the panelists have
8 pointed out, there will be explanations as to why;
9 more Transportation Electrification than anticipated,
10 faster load girth than anticipated, and there will be
11 people who -- entities who will perhaps realize their
12 targets quite easily for other reasons. So Mr.
13 Diamant, I don't know if that answers your question
14 or not, but it's the best answer I can give.

15 CHAIRMAN WEISENMILLER: Thanks.

16 MR. VIDAVER: Sure.

17 MS. RAITT: All right. So thank you. That
18 was I think everything we have from WebEx. So I
19 think we're done with public comment.

20 CHAIRMAN WEISENMILLER: Okay. So we remind
21 people when written comments are due?

22 MS. RAITT: Yes. So written comments are
23 due on May 1st, and the notice provides information
24 for how to submit the comments, and there's also some
25 information here for reference.

1 CHAIRMAN WEISENMILLER: Okay. This Workshop
2 is adjourned. Thank you.

3 MS. RAITT: Thank you.

4 (Adjourned at 2:40 p.m.)

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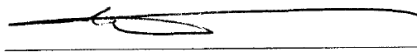
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I do hereby certify that the testimony in the foregoing hearing was taken at the time and place therein stated; that the testimony of said witnesses were reported by me, a certified electronic court reporter and a disinterested person, and was under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

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IN WITNESS WHEREOF, I have hereunto set my hand this 10th day of May, 2017.



PETER PETTY
CER**D-493
Notary Public

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Elizabeth Reid-Grigsby
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