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Docket Number:	15-RETI-02
Project Title:	Renewable Energy Transmission Initiative 2.0
TN #:	206289
Document Title:	Transcript of the September 10, 2015 Joint Agency Workshop on Renewable Energy Transmission Initiative (RETI) 2.0
Description:	N/A
Filer:	Cody Goldthrite
Organization:	California Energy Commission
Submitter Role:	Commission Staff
Submission Date:	10/6/2015 3:33:20 PM
Docketed Date:	10/6/2015

CALIFORNIA ENERGY COMMISSION

STAFF WORKSHOP

In the Matter of:)	Docket No.
)	15-RETI-02
Joint Agency Workshop on)	
Renewable Energy Transmission)	
Initiative (RETI) 2.0)	
_____)	

CALIFORNIA ENERGY COMMISSION

THE WARREN-ALQUIST STATE ENERGY BUILDING

ART ROSENFELD HEARING ROOM

(HEARING ROOM A)

1516 NINTH STREET

SACRAMENTO, CALIFORNIA

THURSDAY, SEPTEMBER 10, 2015

9:30 A.M.

Reported By: Kent Odell

APPEARANCES

Commissioners Present

Chair Robert Weisenmiller, CEC
Commissioner Karen Douglas, CEC
Commissioner Janea Scott, CEC

Agency Partners

Ken Alex, Office of the Governor
Michael Picker, California Public Utilities Commission
(CPUC)
Michael Florio, CPUC
Carla Peterman, CPUC
Keith Casey, California ISO
Kevin Hunting, California Department of Fish & Wildlife

Staff Present

Roger Johnson, STEP Administration
Al Alvarado, Strategic Transmission Planning and Corridor
Designation Office
Scott Flint, Strategic Transmission Planning and Corridor
Designation Office

Panel Presenters (* Via telephone and/or WebEx)

Roger Johnson, STEP Administration, CEC
Brian Turner, CPUC
Neil Millar, California ISO
Scott Flint, Strategic Transmission Planning and Corridor
Designation Office, CEC
Neil Millar, California ISO
Molly Sterkel, CPUC
Barry Tippin, Balancing Authority of Northern California
John Dennis, Los Angeles Department of Water & Power
Al Alvarado, Strategic Transmission Planning and Corridor
Designation Office

APPEARANCES (Cont.)

Public Speakers (* Via telephone and/or WebEx)

*Michael Sintetos , California Bureau of Land Management
Michelle LaPena, Dry Creek Rancheria Band of Pomo Indians
Legal Counsel
Robert Laurie, Imperial Irrigation District (IID)
Pushkar Wagle, BAMx
Steve Mills, Alliance for Desert Preservation
Eric Eisenman, PG&E
Nancy Rader, California Wind Energy Association (CalWEA)
Jason Smith, TransCanyon
*Sarah Quinn, National Park Services
Peter Weiner, Paul Hastings
V. John White, CEERT
Kim Delfino, Defenders of Wildlife
Barbara Boyle, Sierra Club
Erica Brand, The Nature Conservancy
Rachel Gold, Large-scale Solar Association
*Paul Staples, HyGen Industries

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1 P R O C E E D I N G S

2 September 10, 2015 9:35 a.m.

3 CHAIRMAN WEISENMILLER: Good morning. Thanks for
4 your attendance. This is the kickoff on what we're calling
5 RETI 2.0.6 As you can see we've got a broad group of
7 regulators here and perspectives and a pretty good group in
8 the audience, I'm sure.

9 Michael, do you want to go ahead?

10 PRESIDENT PICKER: Thank you.

11 This concept of revisiting the Renewable Energy
12 Transmission Process, RETI, and the California Transmission
13 Planning Group, kind of came out of a conversation that Bob
14 Weisenmiller and I were having. We were talking about the
15 various goals for the future development of renewable
16 energy here in California, the Governor's Greenhouse Gas
17 Executive Order -- which will probably drive us to a
18 significantly new high level of renewable energy projects
19 as well as a variety of demand resources -- the various
20 goals that are embedded in SB 350.21 So the challenge becomes what are the things that
22 we need to do to prepare for the future? And they are on a
23 variety of different levels in the hands of a variety of
24 different agencies, but we were reflecting on what was
25 successful about the ARRA projects. We cited between 2009

1 and 2011 something like 17,000 megawatts of large renewable
2 energy projects when nobody expected us to be able to
3 actually permit and begin construction on any. By the end
4 of 2013 something like 11 gigawatts had actually
5 interconnected to the Grid. And so we were trying to parse
6 out what helped us to do that and what did we need to take
7 forward into the future?

8 And so clearly the RPS was very important in
9 terms of starting these new industries off. We had nothing
10 that compared to a cadre of developers who could actually
11 conceive of, site and build an interconnect and operate
12 that scale of large-scale renewable energy projects in
13 California. We didn't have the financing mechanisms in
14 place. We know that that was very important.

15 We know that the President's ARRA dollars were
16 very important, because they actually helped to get the
17 banks (indiscernible) to help build that financing tool for
18 that pipeline of projects. We know that very important was
19 the relationship between the State of California and the
20 Department of the Interior, both the CEC and the BLM,
21 Bureau of Land Management, the Department of Fish and
22 Wildlife here in the State of California and the U.S. Fish
23 and Wildlife Service were absolutely essentially to
24 processing those projects and to getting them built on
25 time.

1 So those few things were critical, but there was
2 one piece that we also knew really contributed fairly
3 heavily and that was the work that people did to look at
4 the resource areas in California, to actually conceive of
5 portfolios that would make sense to build a consensus --
6 and especially that -- building some consensus around those
7 portfolios. And then to look at the transmission
8 infrastructure that we would need to actually move those
9 electrons from those renewable power plants to market.

10 And so well over 50 percent of the projects that
11 are currently built and interconnected, and a higher
12 proportion of the projects that are permitted, but not yet
13 built are clustered along three transmission segments: the
14 Sunrise Powerlink, the Colorado River segments that go from
15 the border at Blythe through the Morongo Corridor into the
16 San Gabriel Valley and the Tehachapi Renewable Power
17 Transmission line. Without those, and without actually
18 having preplanned them, we'd still be struggling to
19 actually help projects get financing.

20 And so when Bob and I looked at each other, we
21 realized that we need to start now with starting to think
22 through that last piece, the transmission planning. And
23 the building of a consensus on how much large-scale
24 renewable projects and where and which transmission
25 corridors that actually helped. There was a lively debate

1 early on in the RETI CTPG Process on whether or not
2 California could depend on a 100 percent distributed
3 generation scenario. And clearly, at that time, that was
4 very impractical. There may be some additional increment
5 that we can count on from distributed energy resources --
6 certainly from the demand side resources in terms of
7 meeting our 2030 goals -- but it's not clear yet that we
8 can count on it entirely to meet 100 percent of the growth
9 of the our renewable energy needs here in California.

10 So the question before us is then how do we begin
11 to do that? And so what we wanted to do today is to start
12 to sample what other people learned from that very
13 successful period. What kinds of things do we have that
14 would aid us in the next steps? What is there that we need
15 to perfect?

16 So, for example, where there's been a lot of work
17 through the Desert Renewable Energy Conservation Planning
18 Project that has created a vast wealth of data on biology
19 in the desert. The work that the Office of Planning and
20 Research has done on the Central Valley has actually helped
21 us to evaluate how new technologies can fit better into
22 smaller footprints in the Central Valley. So we need to
23 really kind of look at that data and start to weave
24 together this next picture.

25 And then we need to actually develop some kind of

1 a process to look at scenarios and we need to actually
2 build some public consensus process through something
3 similar to the California Transmission Planning Group. So
4 that when we go out to talk to the rest of the world about
5 the things that we think need to happen there are people
6 out there who are very prepared, as they were in the past,
7 to say yes this makes sense.

8 So I think today we'll hear from a variety of
9 different participants, both here from the leadership of
10 some of the critical agencies, and then we'll hear from
11 some of the staff. And then we'll take public comment.
12 And at the end we'll give some direction to our staff to
13 see what we want them to come back to us with.

14 So with that, I'll turn this back to Ken Alex.
15 I'm afraid he has to leave early.

16 DIRECTOR ALEX: There might be a little one or
17 two things going on across the street at the Legislature
18 this week. So I have to leave early, but I just have some
19 quick comments. And primarily, to thank Chair Weisenmiller
20 and President Picker for including in RETI 2.0,
21 consideration of an effort that OPR has been working on in
22 the Central Valley that President Picker just mentioned.
23 And I wanted to just give people a sense of what that is
24 and why it's important that it work well together with RETI
25 2.0 and it help inform this process.

1 So the Desert Renewable Energy Conservation Plan
2 has been a very complex project to figure out in the Mojave
3 where's the best location for renewable energy in
4 combination with all the other important values that need
5 to be preserved and protected along with some development
6 in that area.

7 That process has taken many years. And so when
8 we started thinking about well how do we deal with
9 renewables in the Central Valley? Is there a different
10 process that can be easier, quicker and get us to a point
11 where we have some level of agreement, but don't have to go
12 through a multiyear process to define every aspect of
13 development and land use in the area?

14 And so we've tried to use some developments in
15 technology to allow different groups to come together:
16 environmental groups, solar industry, agricultural world,
17 local government, state agencies and some others, to
18 develop their own maps of where they think the least
19 conflict for potential siting would be.

20 And so in a matter of just a few months we now
21 have developed those maps. And for anybody who's
22 interested, they are publicly available for review and
23 comment. I will put it up on our website at OPR soon to
24 give everybody a chance to look at those. And they
25 represent different maps by different groups looking in the

1 Central Valley and really focusing on places where prime
2 farm land can be preserved and other values can be
3 protected. So looking at places in the first instance
4 where land perhaps is degraded in a way that doesn't
5 support either agriculture or species.

6 And the good news is that there are quite a few
7 acres that fit that description. And I think they are
8 going to give rise to some very good discussion about what
9 transmission would be appropriate to make those areas
10 accessible and usable. So I just really wanted to
11 highlight that these two processes are going to work
12 together and that the RETI process will be informed by
13 this, I guess we've been calling it the Solar Ag Convening
14 for the Central Valley.

15 And if it works, you know, it's still early in
16 the process, we still have to make sure that this is a
17 valuable way to go. But if it does work I think we can
18 expand that to some other areas and other possibilities in
19 the State. So again, thank you gentlemen both, for
20 including it in and I really look forward to seeing how
21 this works.

22 PRESIDENT PICKER: So I think we're going to turn
23 back to Karen Douglas from the CEC.

24 COMMISSIONER DOUGLAS: All right. Thank you,
25 Michael. I just have a few brief comments. I'm really

1 excited about this process and I want to thank Chair
2 Weisenmiller and President Picker for their vision and for
3 taking the initiative to get this process going. I think
4 the fact that we are all here and the fact that there are
5 so many people in this room and on the WebEx shows the
6 importance of what we're about to do.

7 As President Picker said, we are building now on
8 a track record of success and a set of experiences that are
9 going to set us up for success in this process and success
10 in our meeting our 50 percent renewable energy targets. We
11 have a strength on the permitting side from experiences
12 with the ARRA projects in interagency collaboration. We're
13 building off of interagency relationships that I think are
14 really unparalleled, at least in our experience.

15 The experiences and lessons learned from planning
16 efforts. RETI, RETI-1, CTPG, DRECP, San Joaquin Solar,
17 there every time we have worked together and been through
18 this we have learned -- stakeholders have learned we've
19 built our capacity. And I think we're in a really good
20 position now to deliver on RETI 2.0 in a way that it is
21 science-based and utilizes the best available information,
22 collaborative. Certainly in terms of interagency
23 collaboration and I include local governments emphatically,
24 in the word "interagency."

25 Also, in terms of being able to foster robust

1 stakeholder dialogue and build towards consensus and build
2 towards a shared understanding of opportunities and
3 constraints that can help us build towards consensus. And
4 we're in a position now to be able to build on really good,
5 existing work that has been done. Again beginning with
6 RETI, moving through subsequent planning processes, where
7 we have a lot of work behind us.

8 In a lot of ways, the early stages of this will
9 be assembling information and data that's already been
10 collected and already been put together in different ways
11 towards a bigger picture -- in a way that's also outward
12 looking and welcomes participation not only within the
13 state, but from entities that are interested in partnering
14 with us in the broader western region.

15 So I'm very excited about this. I want to
16 welcome everyone here and look forward to the workshop.

17 PRESIDENT PICKER: I'm going to jump to
18 Commissioner Peterman. Is that okay with you?

19 COMMISSIONER SCOTT: Sure.

20 COMMISSIONER PETERMAN: Thank you. Good morning
21 everyone, it's pleasure to be here. Thank you, Chair
22 Weisenmiller and President Picker, for gathering us
23 altogether. I think again, you can see from everyone who's
24 up here, all of our agencies have a sincere interest in
25 making sure that we're planning thoughtfully for the future

1 that we're all continuing to work on, so just a few
2 comments from me kind of echoing some of the things that
3 others have said.

4 We've made a tremendous amount of progress since
5 the first RETI. And while I was talking to some folks in
6 our agency about the history with RETI and really what we
7 were starting with I just thought, "Wow, we've got it
8 easier," this set of Commissioners, because we've got such
9 a good basis to start from. You know, when we look back
10 about what we knew in 2008 and 2009 we know so much more
11 about the renewable energy potential as well as the cost.

12 But there are various different portfolios that
13 can get us to the future that we want. And so that's
14 important for us to do really thoughtful scenario planning.
15 And that planning must include strong environmental land
16 use analysis.

17 One of the outgrowths of RETI that I've had the
18 privilege to be able to work on is the RPS Calculator.
19 That's the analytical tool that collectively, the agencies
20 and stakeholders developed, to help us do scenario planning
21 particularly at the Public Utilities Commission. And
22 what's impressed me about the RPS Calculator process was
23 that it's been primarily staff driven. But it's had a
24 tremendous amount of engagement from staff at the Energy
25 Commission, the Public Utilities Commission, the ISO and

1 support from the leadership of those agencies over time.

2 I think one of the challenges with it though, is
3 that because it's staff driven it hasn't gotten the
4 attention its needed to get from the Commissioners and the
5 management of the different agencies. And so this year in
6 the RPS Proceeding, acknowledging that we made it a formal
7 part of the proceeding to start getting more stakeholder
8 comment. But indeed, I think we still need to engage more
9 with local governments and with other agencies that are
10 doing land use planning.

11 And so one of the things I hope to get out of
12 RETI 2.0 process is better environmental information that
13 can be useful for any planning that we're doing at the
14 CPUC. And what I think we can provide is there is a tool
15 that's available that has some elements, I think, that can
16 be useful for helping to achieve the aims that we
17 collectively have.

18 And so I think what's important about this
19 gathering is getting everyone together to talk about what
20 do we already have and what's missing? You know, what do
21 we need to add to it, because there's a lot of great work
22 that's happening. And some of it I'm not familiar with, so
23 I'm really look forward from some of the other utilities
24 and agencies.

25 And just a couple of other things, some of the

1 key questions I think to grapple with as we move forward,
2 one is again how to best utilize the environmental land use
3 information that's been developed by the CEC, counties, and
4 federal and state agencies. And I'm looking forward to
5 hearing about that, also what scenarios should be
6 developed. Collectively propose various scenarios,
7 diversify portfolios, out-of-state resources, but there can
8 be so many more, so again looking forward to your feedback.

9 Also, how much new transmission is actually
10 needed versus optimizing the transmission that we have?
11 There is some interesting work happening with energy only
12 portfolios being considered at the ISO. And so I want to
13 make sure that we're maximizing the investment in the
14 planning that we've already done, particularly as President
15 Picker noted, around the Sunrise and Tehachapi and the
16 other transmission lines.

17 So with that I'll say I'm just looking forward to
18 the discussion and into engaging with all of you as we go
19 forward. Thank you.

20 PRESIDENT PICKER: I'm going to jump over to
21 Commissioner Scott.

22 COMMISSIONER SCOTT: Okay. Good morning, all. A
23 lot of what I was going to say has already been said, so I
24 will echo many of the comments of my colleagues here. I
25 want to say welcome to all of you; it's fantastic to have

1 you here and to be working on all of this together. And
2 thank you, President Picker and Chair Weisenmiller, for
3 your leadership on this.

4 A lot of us have been in the trenches, down in
5 the weeds, down on this together for awhile. And it's hard
6 work, right? It's tough work, but we learned a lot and we
7 learned that we can solve issues. We can address barriers.
8 We can get the advanced planning we need to get done. We
9 can identify the pinch points early, so that we're able to
10 address them in a timely way. And we know that we can be
11 successful in the work that we want to do together.

12 And in this process, I really look forward to
13 identifying specific issues that we're looking --
14 challenges we're looking to solve. What the common goals
15 are that we want to work on together. I look forward to
16 working also with our engaged and thoughtful stakeholders
17 on this. I really do think that when we're working
18 together we can achieve the important climate goals that
19 the Governor has laid out for all of us. And I look
20 forward to the presentations in getting kicked off, so.

21 PRESIDENT PICKER: Mr. Florio?

22 COMMISSIONER FLORIO: Thank you. It's a pleasure
23 to see such a good turnout today. I was not particularly
24 involved in RETI 1.0, so this is a little bit new for me.
25 But I know that I am standing on the shoulders of giants,

1 many of whom are at this dais and in this room.

2 I think we have a luxury here, looking 15 years
3 out to 2030. You know, looking back it's really a miracle
4 what was accomplished and we didn't -- we kind of plunged
5 into it without really having the opportunity to look 15
6 years ahead like we have now. I think this gives us a
7 chance to look at strategic options in a way that was very
8 hard to do ten years ago, because the industry was new.
9 The data hadn't been collected. And, you know, it was a
10 real struggle and in many ways a miracle that we've gotten
11 to where we are today.

12 But I think we can do it even smarter this time.
13 I think with the luxury of a little more time to plan we
14 can be more strategic. I think this is the time to
15 consider out-of-state options that have been presented over
16 the last few years. I'm not saying I'm for or against, but
17 I think this is a good opportunity to look at Wyoming wind,
18 New Mexico wind, Arizona solar.

19 And in some ways we have the advantage of our
20 past experience, but we also have new challenges. The
21 integration issues get tougher as we push from 30 percent
22 to 50 percent. It's going to be much more critical to
23 consider diversity of resources in the portfolio. So I
24 think this gives us a perfect opportunity to look at do we
25 want to expand farther to the east in procuring our

1 resources? You know, can we as Commissioner Peterman said,
2 repurpose existing transmission that maybe was built
3 initially for large coal plants, which are now starting to
4 retire at least partially. Is there a way to tap some of
5 those out-of-state resources without 100 percent new steel
6 in the ground in terms of transmission?

7 At the same time it's clear we have an abundance
8 of in-state resources. And getting the right combination
9 of those is critical. While we've done a lot of work
10 inside of California there's also been some very good work
11 done at the WECC through the Environmental Data Task Force.
12 It's certainly not as granular as the DRECP, but there has
13 been work done there looking at environmental and species
14 constraints on other potential corridors in the west.

15 So there's a lot to draw on and I think it's a
16 really important opportunity as we're at this inflection
17 point to take a step back and say, "Where do we want to be
18 in 2030? And what's the best combination of resources to
19 get there?" So I'm looking forward to an excellent
20 conversation around these topics. Thank you.

21 PRESIDENT PICKER: I'm going to turn to Kevin
22 Hunting from Fish and Wildlife.

23 MR. HUNTING: Thank you. Thank you, President
24 Picker and Chairman Weisenmiller, for convening this group.
25 And I appreciate the invitation to be here today as well.

1 You know, reflecting on the comments I've heard
2 already I agree with everything that's been said,
3 especially when it comes to lessons learned from the ARRA
4 projects. We had a vision, our agencies, at that time. It
5 didn't take us long to realize that reacting to incoming
6 project applications and permitting on a case-by-case basis
7 was not the most efficient or effective way to not only
8 reach our renewable energy goals, but to reach our
9 environmental and species goals.

10 California has got one of the highest levels of
11 biodiversity in the entire United States. It's a
12 biodiversity that a lot of people are very passionate about
13 and it's central to our mission. And we are a trustee
14 agency for those resources, so we're highly motivated to
15 finding a better way to reach the important renewable goals
16 and transmission planning goals that you'll hear about
17 today, while managing and maintaining that biodiversity.

18 So during RETI 1.0 we had some data, some
19 information that we were trying to piece together, and
20 integrate that with transmission planning and renewable
21 energy development information. And kind of looking back
22 on that now in the face of what's been developed for the
23 DRECP and the exciting potential of the San Joaquin Valley
24 effort especially. It was really rudimentary compared to
25 what we can do now. We've got some excellent information

1 and excellent data from which to plan for this kind of
2 outcome on the 15-year horizon. And I'm hoping we can
3 accomplish this in a way that is a true balance on a
4 landscape level -- not a project level, but a landscape
5 level -- a true balance between maintaining that
6 biodiversity and reaching our renewable energy goals.

7 So I'm excited about the potential. I'm
8 delighted to be part of the effort, and again I appreciate
9 the opportunity to be here.

10 PRESIDENT PICKER: Thank you.

11 Keith?

12 MR. CASEY: Thank you, President Picker and
13 Chairman Weisenmiller, for having the ISO here. We really
14 look forward to the opportunity to collaborate and partner
15 with you on this initiative.

16 It's hard to be original, being the last speaker
17 here, so let me just reiterate our support for, I think,
18 three themes that I've heard fairly consistently.

19 The first is we've come a long way since RETI 1.0
20 in terms of transmission planning, portfolio development
21 all aspects, environmental considerations. So the theme of
22 leveraging what we have and what's working well, we're very
23 supportive of. And I think we'll have an opportunity today
24 to really do kind of a level setting with everyone here in
25 the room on just how far we've come, what's working well,

1 what's not.

2 The second theme that Commissioner Florio hit on
3 is integration challenges. And I think as we move forward
4 thinking about 50 percent, we really need to be mindful of
5 what it's going to take to efficiently and smartly
6 integrate that portfolio into the system. And that gets to
7 diversity -- diversity in terms of technology as well as
8 geographic diversity. And I think we really need to pay
9 careful attention to that.

10 And the third theme is regionalism. That as we
11 think about the 50 percent portfolio we have to recognize
12 that there's potential opportunities and synergies there
13 with the rest of the west on other goals. The clean power
14 plants certainly, one aspect as we look to facilitate
15 integration through better regional market coordination.
16 There could be opportunities for transmission upgrades to
17 enhance our ability to do our regional market coordination.

18 So I think that as we move forward on this
19 initiative we really ought to broaden the scope to bring in
20 as many partners throughout the west to really look
21 comprehensively at collaborative opportunities here. So I
22 look forward to the discussion today and appreciate the
23 opportunity to be here.

24 PRESIDENT PICKER: And I have to point out the
25 importance of the independent system operator to their

1 earlier RETI CTPG process, because at that point you drove
2 a lot of the modeling and actually supplied a lot of the
3 leadership to actually make the consensus process work.
4 And you were the first up in terms of actually considering
5 projects.

6 So I also want to note that we don't have
7 representatives sitting up here today from our partners in
8 the federal government. And I just want to stress why it's
9 important to begin to build them into our discussions.
10 Transmission projects especially, to the extent that we
11 feel that we need them, are on long linear projects. They
12 rarely only fit into the neat, tidy jurisdictions of state
13 agencies. They inevitably move across federal lands and so
14 we will not get very far in our discussion at the staff
15 level if we don't start to figure out how to begin to
16 engage them.

17 And it may be that when we get to the discussion
18 in "Next Steps" that we'll want to investigate a similar
19 kind of an MOU that we had with those same federal agencies
20 around the Renewable Energy Action Team.

21 COMMISSIONER DOUGLAS: If I could just briefly
22 speak to that, Michael? Jim Kenna wanted to be here. He's
23 in Washington D.C. doing Congressional briefings. And he
24 may have sent some staff to speak in the agency comment
25 period. But I think they would be very interested in that

1 follow-up discussion.

2 PRESIDENT PICKER: I'd be happy to take
3 Tom Pogacnik.

4 Okay. So is there anything else from our agency
5 leadership?

6 (No audible response.)

7 So with that, I think we're going to move to a
8 Staff Panel and they're going to talk a little bit about
9 what kinds of things are we doing. What kind of
10 considerations do we take from what we've done in the past?
11 What do they see as being the holes that need to be filled
12 in? And so we'll start here with Roger Johnson and just
13 run around the table.

14 MR. ALVARADO: Before I start -- my name's Al
15 Alvarado with the Energy Commission. I just wanted to let
16 folks know that we do have a full house here. We do have
17 an overflow room at the Charles Imbrecht Hearing Room,
18 which is just right across the way. And we have this
19 discussion streaming over there.

20 Roger, we have your presentation up.

21 MR. JOHNSON: Thank you.

22 Okay. Good morning, thank you for this
23 opportunity to present today. And I've been asked to,
24 essentially talk about where we are today with renewable
25 energy and where we've run in the past recently that's

1 brought us to this point of looking at RETI 2.0.

2 So if I could have the first slide. I'd just
3 like to bring us up to -- do the numbers. Essentially,
4 California has done a lot, as we all know. We have a
5 currently installed renewable generation capacity of 21,000
6 Megawatts. And retail sales for 2014 were 25 percent of
7 renewables. And so that's well on the way to our 33
8 percent goal by 2020.

9 Renewable energy projects in the process -- the
10 Renewable Energy Action Team is tracking 474 renewable
11 projects in California right now that are in some form of a
12 review or have been approved and are under construction or
13 waiting to start construction. And that's 34,680 megawatts
14 of projects in review. And of those, there's 193 of those
15 that have permits, and that's 12,930 megawatts.

16 So I think that this large interest in these
17 renewable projects, we're well on our way to maybe being
18 able to reach the Governor's goal of 50 percent by 2030.
19 Next slide, please?

20 I'm sorry for the size of this, but if you have
21 that handout maybe it's better to read. This is just a
22 representation of those 474 projects that are dispersed
23 throughout California. And this shows the technology and
24 the size of the project and location.

25 So while it seems like this is a quick start to

1 RETI 2.0 -- at least it was for me -- I'm really pleased to
2 see the same agencies, stakeholders and groups in this room
3 that were part of the RETI 1.0 process. So with that
4 combined history where we were in RETI 1.0 and where we
5 want to go in RETI 2.0 I'm looking forward to this effort.
6 So our past -- next slide please?

7 Our past planning practices, I think, are
8 notable. And I'd just like to quickly go through a few of
9 them. Back in 2004 we had some collaborative study groups.
10 The PUC ordered the establishment of the Tehachapi
11 Collaborative Study Group to develop a Transmission Plan
12 for 4,500 megawatts of wind energy in the Tehachapis. In
13 that same year, the PUC and Energy Commission supported the
14 formation of the Imperial Valley Study Group. And that was
15 to look at 2,000 megawatts of transmission for, at that
16 time looking to deliver geothermal resources from the
17 Imperial Valley.

18 Work on these studies was completed. The ISO was
19 able to develop the transmission plan, the projects were
20 designed and approved by the PUC and essentially
21 constructed and are in operation today. So that's really a
22 very successful story of how we worked together, to plan
23 for that renewable energy.

24 RETI -- a lot of people have talked about RETI,
25 and we'll talk more about that at the next session. But

1 RETI was initiated in 2007. It was a stakeholder-driven
2 process designed to identify transmission projects, to
3 accommodate California's renewable energy generation needs
4 in support of our RPS goals.

5 RETI stakeholders identified 30 competitive
6 renewable energy zones in California. These were areas
7 where resources were identified: solar, wind, geothermal.
8 And then they looked at developing 80,000 megawatts
9 statewide and 66,000 megawatts were in the desert.

10 CTPG -- the result of RETI were then used by the
11 CTPG, the California Transmission Planning Group, which
12 included the IOUs, the POUs, and the ISO. They took the
13 RETI results and developed a Transmission Plan for the
14 State of California to meet the 33 percent goals.

15 In 2010, the FERC approved the ISO's revised
16 transmission planning process that requires the ISO to
17 develop a conceptual statewide Transmission Plan, and
18 therefore that replaced the CTPG function.

19 DRECP -- quite a bit's been said this morning
20 about that, so I won't say much more other than that
21 started in 2008. And I can't believe it's been that many
22 years, but we're almost there. We're getting ready this --
23 towards the end of this year to release the final EIS/EIR
24 for the Land Use Plan Amendment associated with the DRECP.
25 That was, as has been mentioned, it was a substantial

1 planning effort. We looked 22 1/2 million acres in the
2 California desert and looked for the way to balance
3 development of renewable energy with the conservation of
4 important species and habitats.

5 In 2012 the DRECP put together a transmission
6 technical group to look at the transmission needs
7 associated with the DRECP alternatives. And that effort
8 was used to evaluate what transmission resources would be
9 needed and what would the land use requirements be, how
10 many acres of habitat would be affected by those different
11 transmission options?

12 Ad Ken Alex mentioned the San Joaquin Solar
13 Valley, I won't say much more about that other than that's
14 currently going on and they should have, like Ken said,
15 their maps will be out soon. And they're hoping to have a
16 final report in November of this year. They also have a
17 technical transmission group associated with that project.
18 PG&E, SCE and the ISO are working together looking at the
19 ability to repurpose existing transmission. And right now
20 they've identified 1,000 to 2,000 megawatts of transmission
21 capacity that could be available for renewable generation
22 in the Valley.

23 And then finally, RETI 2.0, we'll be discussing
24 that more later in this meeting. But as people mentioned
25 we are fortunate that Chair Weisenmiller and President

1 Picker had the vision to start it now. We always wish we
2 would've started these things years ago, so I'm looking
3 forward to have the opportunity to work with this group,
4 and to pursue our new goal of 50 percent in 2030.

5 PRESIDENT PICKER: Okay. Thank you.

6 Brian Turner?

7 MR. TURNER: Great, good morning. My name is
8 Brian Turner. I'm with the California Public Utilities
9 Commission. I just wanted to provide a short overview of
10 our initial approach to RETI 2.0, to get your feedback
11 direction from the principals and stakeholder comments.

12 First of all, we're bringing to this -- I want to
13 talk about what we're bringing to this in terms of our
14 interests, the capabilities, and what we would like RETI
15 2.0 to serve in the CPUC's interest.

16 So RETI 2.0 can serve our core mission of
17 reducing costs, assuring reliability and maintaining the
18 safety of the California electricity system. We're quite
19 interested in what proactive collaborative planning and the
20 diverse portfolio can bring to reducing costs. Not just
21 the total costs of the system, but the integration costs of
22 achieving the 50 percent portfolio and more importantly,
23 achieving the overall greenhouse gas reduction.

24 Again, also with reliability -- what does a more
25 diverse broad -- both resource technical, technology

1 diversity and even regional diversity bring to assuring the
2 reliability of the electricity system.

3 And then lastly in safety, our overarching
4 preeminent goal of reducing the greenhouse gas intensity of
5 assuring environmental and land use sustainability and
6 safety to the system. And what can we do to proactively
7 plan for that safety. So that's what we're hoping to
8 achieve with the broader engagement that RETI 2.0 can
9 bring.

10 What we'll be bringing to that effort are our
11 existing analytic capacity and proceedings, some of which
12 we've described. And we'll hear more about in just a
13 minute, the RPS proceeding, the long-term procurement
14 planning proceeding, several demand-side proceedings which
15 have to do with the total demand and the other resources on
16 the system.

17 Also, our partnerships that we've heard
18 described, but also quite sophisticated process alignment
19 that we've achieved between the PUC, the CEC, and the ISO
20 especially. Some tight timelines frankly, for those
21 processes to occur and we'll need to align the RETI 2.0
22 process with those existing proceedings. So we'll be
23 looking to establish that.

24 And then lastly, we're really looking at this as
25 an opportunity to do scenario planning that can bring into

1 our considerations a much broader set of forces that are
2 acting on, that have emerged since RETI 1.0 and that we
3 have to deal with going forward. And that includes new
4 technologies, new economics to those technologies, the new
5 and stronger relationships and frankly new trust and
6 interest amongst potential partners that we can leverage.

7 We're looking to consider what does the future
8 entail when we think of broader energy markets and grid
9 operations within California and across the west.

10 And then there are significant opportunities with
11 not only California's new greenhouse gas policy and moving
12 to 50 percent, 40 percent reduction in total greenhouse
13 gases, but now federal carbon policy. And what is that
14 going to do to shake up western power markets, western
15 power generators in the transmission system? So we're very
16 much looking forward to RETI 2.0 providing some insight and
17 scenarios based on those forces.

18 So we're bringing a lot to the table. We're
19 ready to dive in, but we need to move quickly and that's my
20 message. Thank you.

21 PRESIDENT PICKER: So Mr. Flint? Oh, no. I'm
22 sorry, Neil Millar, I skipped over you. My apologies.

23 MR. MILLAR: No problem, sir.

24 Yes, on behalf of the ISO there were a few points
25 I also wanted to make at the onset. A lot of these have

1 already been touched on to different degrees, but I'll try
2 to pull them together from our perspective.

3 As you've already heard, there have been a number
4 of process improvements focusing on transmission generation
5 interconnection that went on within the ISO planning
6 processes. Those also relied very heavily on the increased
7 level of coordination with the various regulatory processes
8 whether it was the IEPR process or the long-term
9 procurement planning processes. That level of coordination
10 is something we really didn't have in place the first time
11 around. And that's hugely valuable to us, so we really
12 wanted to emphasize that and I'll be touching on that a bit
13 more in my later presentation.

14 In terms though of the needs we see, as we move
15 forward into RETI 2.0, there are a few areas that -- you
16 know, the initial RETI 1.0 process was what enabled and led
17 into the development of more granular portfolios. That
18 level of detail is really critical that we see to making
19 firm transmission decisions to move forward, to move
20 forward confidently and with purpose.

21 There are also some areas that we see that need
22 to be considered that perhaps weren't taken to the same
23 level of depth the first time around. Those issues include
24 correlating all of -- there's so much great data now that
25 wasn't available the first time around, but correlating

1 that information for in-state resources. How does a great
2 area of disturbed land compare to a great resource within
3 the desert? How are those compared and aligned, as well as
4 clearly the need to look more broadly at out-of-state
5 resources, both from the resource perspective as well as
6 the renewable integration benefits that regionalism can
7 provide.

8 So as we move forward on these we have certainly,
9 escalating challenges as you've already heard on renewable
10 integration. But we also have the new opportunities
11 providing we get the appropriate coordination and direction
12 in place early and with enough time to take action. Thank
13 you.

14 PRESIDENT PICKER: So I'm going to call on Molly
15 Sterkel while Mr. Flint deals with business.

16 MR. ALVARADO: Yes, we were going to move to the
17 next panel, which is Considerations of Current Activities.
18 And we do have Roger Johnson on the top of that list, as
19 you wish?

20 PRESIDENT PICKER: Okay. So you actually want to
21 run these as separate panels? Then please go ahead.

22 MR. JOHNSON: Okay. I just wanted to spend just
23 a few minutes talking about RETI 1.0 for those of you who
24 weren't able to participate in that. I wanted to share
25 with you what that looked like compared to maybe what RETI

1 2.0 will be today. First slide.

2 So RETI 1.0 was initiated in 2007, as I
3 mentioned, as a stakeholder-driven process. It was
4 designed to identify transmission projects, ease future
5 designation of transmission corridors and expedite the
6 siting and permitting of transmission lines and renewable
7 generation.

8 The stakeholders identified the 30 Competitive
9 Renewable Energy Zone CREZs, again 80,000 megawatts
10 statewide and 66,000 megawatts in the desert. Next slide,
11 please.

12 So the RETI had a governance structure. It was
13 stakeholder driven, but it had a Coordinating Committee,
14 which was essentially made up of the agencies that are
15 identified on the slide. And the role of the Coordinating
16 Committee was to ensure the RETI process produced the
17 information needed for policy decisions by the agencies.
18 They kept the process on schedule and they provided
19 direction on peripheral policy issues when necessary.

20 And then we had the Stakeholder Steering
21 Committee and the role of this committee, which was made up
22 of the transmission owners and operators, the generators,
23 the utilities, the power purchasers, the agencies,
24 landowners and the environmental and public interest
25 organizations. So this was the group that was responsible

1 for developing and adopting the work plans, ensuring active
2 participation by its members and forming the working
3 subgroups as appropriate.

4 So RETI had three phases primarily. The first
5 phase was identification of the CREZs. Phase 2 was to
6 refine those CREZs and then finally Phase 3 was to work on
7 the priority CREZs that were identified.

8 In the end RETI was successful in that every CREZ
9 developed a Transmission Plan to essentially be able to
10 reach that CREZ and deliver that energy to the Grid.

11 RETI worked to have an open and transparent
12 process. We had stakeholder participation, including again
13 all the owners: the transmission owners and providers, the
14 renewable energy developers, the electric retail providers,
15 all the agencies, Native American tribal governments,
16 landowners, the environmental and public interest,
17 balancing authorities and other interested parties.

18 The Energy Commission was able to essentially
19 keep a webpage up to keep people informed. In the
20 beginning, some parties felt they didn't have full access
21 to the process and there was an effort later in the process
22 to be more inclusive and to allow parties to join the
23 working group meetings and to participate in those
24 meetings.

25 So the output from RETI informed the renewable

1 procurement and transmission permitting at the PUC. RETI
2 informed the renewable generation and transmission planning
3 at the POUs. It informed the Energy Commission for
4 transmission corridor designations. And it informed the
5 ISO on the transmission planning process. And it
6 definitely informed the transmission planning for the
7 DRECP.

8 So that was RETI 1.0. That was how we did it and
9 now we'll talk today about RETI 2.0.

10 PRESIDENT PICKER: Can you talk a little bit
11 about the relationship between the RETI process and the
12 California Transmission Planning Group process?

13 MR. JOHNSON: I can try, there might be somebody
14 better. My understanding was that the output of the RETI,
15 those transmission plans for those CREZs was picked up by
16 the CTPG, which formed itself to develop a statewide
17 transmission plan. And so the CTPG was the IOUs, the POUs,
18 and the ISO working essentially by themselves to develop
19 this transmission plan.

20 MR. CASEY: Well, I'll just add to that. I think
21 CTPG was formed in 2009, so the RETI work had largely been
22 completed in terms of portfolio development. But I think
23 Roger's right that CTPG largely leveraged the portfolio
24 information that came out of that effort to look at --
25 thinking comprehensively in terms of statewide transmission

1 what could be need to support that. So I think the key
2 linkage there was leveraging the portfolios. There wasn't
3 much interaction between the two groups.

4 PRESIDENT PICKER: Thank you.

5 So Scott?

6 MR. FLINT: Good morning. Scott Flint, Energy
7 Commission. I'm going to talk a little bit this morning
8 about a proposed statewide approach for environmental
9 analysis that the Energy Commission has been working on.
10 And fasten your seat belts; I've got to go pretty quick.

11 From the standpoint of this conceptual approach
12 to what we would envision, we've been working on a
13 conceptual approach for transmission planning to take it
14 from the regional work we've been doing, both on the DRECP
15 and San Joaquin efforts, to a statewide approach. We've
16 been working on that with the Renewable Energy Action Team
17 ever since we first started working on ARRA projects in the
18 DRECP.

19 The focus initially was to work in the regions
20 that had the highest renewable energy potential. And then
21 eventually address the whole state renewable energy
22 potential areas for the whole state, so we're working on
23 progressing to that from the regional work.

24 So a conceptual approach for moving to a
25 statewide framework for renewable energy planning would

1 include utilizing and building on the outputs of the
2 existing planning processes since we already heard about
3 DRECP, San Joaquin Valley Solar, but also local agency
4 planning efforts that are underway to plan for renewable
5 energy elements in their general planning processes. Some
6 counties are very far along on this process and others are
7 just starting. So we would incorporate those.

8 We would look at incorporating useful elements of
9 the original RETI project process. We would then evaluate
10 existing statewide data sets to be able to use data in a
11 statewide manner to look at other areas where specific data
12 was not developed in regional efforts. And then we would
13 continue to develop and expand a Renewable Energy
14 Generation Scenario Tool, which we have a version up and
15 running that works with some of the data from the DRECP.

16 So just to visualize how some of this might fit
17 together we would take some statewide data that was
18 generated. This is the RETI 1.0 areas, Category 1 areas.
19 We've updated this for the DRECP area. We would propose to
20 update this kind of information statewide -- legally and
21 legislatively protected areas where typically projects
22 would not be permitted. And then add in the information
23 from the DRECP and the San Joaquin Valley efforts, which
24 both within their regional boundaries have addressed
25 renewable energy resource locations, land use

1 considerations, and environmental factors.

2 So we've done those in various ways, so we'd look
3 at how we've done that. And then combine them with
4 available statewide data sets that we have that are pretty
5 robust nowadays and available statewide. So we have some
6 data available statewide through the process. We would
7 evaluate and use the best data, assemble it into logic and
8 data models that allow us to work with the data, to examine
9 similar issues in a similar way that we have in the
10 regional levels.

11 So we can basically step our work up from the
12 regional level to statewide. And then folks who are
13 embarking on planning at the regional level can step back
14 down for their elements of their planning.

15 So at the end of this work, on the data, we would
16 then have the data underlie a Renewable Energy Generation
17 Scenario Builder. This is the tool that we've already
18 worked on and have operating in the DRECP area.

19 And basically, the way it works it allows -- it
20 works with the underlying data in three categories: energy
21 resource data where you can evaluate solar resource,
22 megawatt targets and those sorts of things; land use data
23 where you can look at agricultural lands, excluded lands,
24 ownership; and then environmental data where you can look
25 at terrestrial intactness conservation value sorts of

1 models and connectivity.

2 So the data would be in here and this tool would
3 be available to help generate potential renewable energy
4 development scenarios that can then feed into a
5 transmission planning process.

6 So here, this is a similar effort we did in the
7 DRECP in identifying alternatives. But in this approach
8 this allows the stakeholders and the agencies to turn the
9 dials on this various data. And as you see on this slide,
10 you get an output that basically identified areas on the
11 map for you that met your conditions that you set for the
12 data that is underlying the model.

13 So this is the approach we're working on to help
14 contribute to scenarios.

15 The initial list of data and modeling tools that
16 we would propose to work on are examining existing
17 statewide data sets; building a Statewide Landscape
18 Intactness Model, which we did for the Desert Renewable
19 Energy Conservation Plan; Statewide Conservation Values
20 Model, which we did for DRECP and the San Joaquin effort.
21 San Joaquin effort then added an Agricultural and Range
22 Lands Model, so we could bring that sort of land
23 consideration into the planning. We have a Statewide
24 Climate Console Application that can serve as an overlay to
25 all of these outputs and give us a picture of climate

1 change potential impacts on the landscape. And then, of
2 course, the Renewable Energy Generation Scenario Tool that
3 I just talked about.

4 So working in a collaborative process with
5 stakeholders and still taking advantage of the relationship
6 we built in using the Renewable Energy Action Team, we
7 would propose to work through this process examining the
8 data sets in a series of webinars or workshops, very
9 informal and more working sorts of meetings. And we would
10 evaluate the statewide data sets, logic model development,
11 and operation. We can run some outputs and evaluate those,
12 work with a Scenario Builder Application before its
13 development and operation, use that application to generate
14 various scenarios, and evaluate those scenario inputs
15 through this process.

16 We think this sort of framework approach would
17 fulfill where we have been going with energy planning from
18 the Energy Commission perspective. And also support the
19 environmental considerations and environmental aspect of a
20 RETI 2.0 effort. Thank you.

21 PRESIDENT PICKER: Questions?

22 Okay. We'll keep moving along, so I think we're
23 at Molly?

24 MS. STERKEL: I think Neil's slides sort of flow
25 nicely into my talk, so...

1 (Off mic colloquy re: order of speakers.)

2 MR. MILLAR: Thank you. I'll just touch very
3 briefly on a few processed slides. As I mentioned earlier,
4 considerable work has been done since the RETI 1.0
5 timeframe on the transmission planning processes at the ISO
6 as well as the coordination with others.

7 By way of a reminder many of you have seen
8 versions of this slide before. The ISO has in place a
9 comprehensive transmission planning process that we execute
10 every year. The first phase is particularly relevant.
11 It's the formation of detailed study plans identifying the
12 inputs that go into our transmission planning process.

13 Phase 2 leads into the development of the
14 technical studies, looking at the reliability needs, the
15 policy driven needs which in particular focus on renewable
16 generation requirements and broader economic analyses to
17 come up with a comprehensive plan that best meets all of
18 those needs.

19 I should remind people that California was the
20 first to have a federal process in place within its
21 federally approved tariff to accommodate policy-driven
22 transmission before FERC Order 1000 appeared on the radar
23 screen.

24 The third phase is also the procurement stage.
25 The plan is expected to be real. It leads to transmission

1 project identification and execution. Within the
2 coordination with the state agencies this is particularly
3 important to us.

4 We rely very much both on particular inputs and
5 also alignment with other state agency processes, relying
6 on the data coming from the Energy Commission and the
7 Utilities Commission on both load forecasts, load modifiers
8 for preferred resources as well as other resource needs
9 through the form of generation portfolios. We do our work
10 on the transmission planning, which is then aligned and
11 provided as input into the various procurement processes
12 executed by the Utilities Commission.

13 This is an iterative process, so what we go
14 through one year feeds into the next cycle. We have a 16-
15 month process we run annually, so there's always overlap
16 and information feeding forward into the next process.

17 As I mentioned the process does lead to project
18 identification and execution. Over the last five years in
19 aggregate we've been moving forward on over 6 billion in
20 transmission projects. Around 600 million of that related
21 directly to policy-driven transmission supporting renewable
22 generation. Most of those projects -- just building on a
23 comment from Commissioner Peterman -- most of those
24 projects have actually focused on expenditures that allowed
25 us to get the best use of the transmission system that's

1 already either existing or has already been moving forward.
2 So these were optimizing projects that made the best use of
3 the wires we had.

4 The other change that's actually going to be
5 showing up on the radar screen within 2016, 2016 will be
6 the first year of execution of the interregional planning
7 processes that the ISO has developed with its neighboring
8 planning regions. That includes WestConnect, which many
9 other utilities within California are members of as well as
10 Columbia Grid and Northern Tier Transmission Group to the
11 north.

12 So there is now a broader framework for
13 interregional coordination with the other groups that
14 didn't exist previously. And we'll be helping to draw on
15 that as well.

16 So when we look at the transmission planning
17 processes that have been refined in the past as well as the
18 new tools in the toolbox we have to move forward. We do
19 see that the past coordination has been very effective in
20 identifying transmission needs. We do have the better
21 coordination in place and we do see that this allows us to
22 move forward more effectively through RETI 2.0, to identify
23 and execute the transmission projects that we need.

24 PRESIDENT PICKER: Thank you.

25 Okay.

1 MS. STERKEL: I'm ready. I'm looking at
2 Commissioner Picker who has twice called upon me, but now
3 I'm finally -- I think it's actually, finally my turn.

4 PRESIDENT PICKER: I can take direction.

5 MS. STERKEL: I can't avoid it any longer. So my
6 name is Molly Sterkel. And I'm the Program Manager for
7 Infrastructure, Permitting and Planning at the California
8 Public Utilities Commission.

9 So my staff support both the long-term
10 procurement planning proceeding as well as the review for
11 our electric permitting cases for transmission lines and
12 substations. So my remarks today focus on the State's
13 existing generation and planning processes and how they may
14 inform, as well as be informed by, the forthcoming RETI 2.0
15 process.

16 So I think my remarks really follow nicely to
17 Neil's remarks, because over the past several years
18 technical staff at the CEC, the CAISO, and the CPUC have
19 worked together to better align the three cyclical
20 processes that inform the core of our electrical
21 infrastructure planning processes.

22 So Commissioner Peterman said, "What do we
23 already have?" And what we already have is some really
24 intense foundational work on coordination of our planning
25 processes. And so I'm going to delve into the weeds of

1 that a little bit here, because I think it will help us as
2 we think about how to add more information out of RETI 2.0
3 into our planning processes.

4 So the processes I'm referring to are the Energy
5 Commission's Integrated Energy Policy Report, which very
6 importantly produces a Demand Forecast, which we use
7 throughout the long-term procurement plan process as well
8 as the transmission planning process at the CAISO.

9 The second one is the CPUC's long-term
10 procurement plan proceeding currently led by Commissioner
11 Picker.

12 And the third one is the annual transmission
13 planning process at the CAISO.

14 So the hallmark of this three-way coordination,
15 which we sometimes call process alignment, has been to
16 align the development, delivery and utilization of the
17 inputs that are developed at one organization. And then
18 used by the other organization all in the pursuit of
19 coordinated and sensible planning.

20 These are big infrastructure investment decisions
21 that we make as a state and so it's really important that
22 we align our resources and our decision making.

23 So the key part for the CPUC is kicked off in the
24 fall of each year as we lead the coordinated development of
25 common planning assumptions and scenarios. These

1 assumptions and scenarios are updated on annual basis. And
2 I should say we do a bigger update in the odd-number years
3 like this year, leading into the biannual IEPR process and
4 LTPP process. But we do a more limited update on the even-
5 number years, because we're trying to be supportive of the
6 CAISO's annual transmission planning process.

7 So for those of you who were watching this past
8 year in the fall of 2014 we did workshops and eventually
9 issued a final set of assumption scenarios in March. And
10 we did that after our staff -- I'd like to just describe a
11 little bit how we developed that process.

12 So our staff worked with the CEC and the CAISO
13 staff to come up with the latest information. We also
14 contacted a variety of other sources to look at each and
15 every assumption in our load and resources table and come
16 up with the best information available. Then we circulate
17 those draft assumptions. We workshop them, we take written
18 formal public comment and we eventually develop a final set
19 of assumptions and scenarios.

20 So the assumptions are -- each assumption is for
21 a load or resource item, but a scenario is a combination of
22 those, is the unique combination of the assumptions. And
23 what we do once we have those assumptions and scenarios --
24 I just want to talk how we then use those a little bit.

25 Well, first we compile a simplified Load and

1 Resources Table. But then the PUC and the CAISO use these
2 common assumptions as well as the Energy Commission, in a
3 variety of ways, in our various efforts.

4 So for the PUC we use our assumption and
5 scenarios to support our proceedings that authorize
6 procurement of generation and other resources. So we
7 develop modeling. We do production cost modeling, parties
8 do production cost modeling. And we do all of that with a
9 common set of assumptions. And then the resulting analyses
10 can be subjected to additional public comment and
11 additional public input and then vetted, so that the
12 Commission can deliberate and decide on the authorization
13 of new procurement-related investments.

14 For the CAISO, each transmission cycle as Neil so
15 brilliantly showed you on a quick slide, each transmission
16 cycle has a study plan and in that study plan they use a
17 base case. And that base case relies upon our assumptions
18 and scenarios. And that's really helpful, because the base
19 case that's the developed may lead to the utility -- I mean
20 it may lead to the development and authorization of CAISO-
21 approved lines. And so it will be nothing, but helpful for
22 future permitting of transmission lines that the CAISO is
23 using our assumptions and scenarios in its base case.
24 Because then when we review -- when the PUC is in the
25 position of reviewing transmission lines -- it can do so

1 with the foundational knowledge that we were coordinated on
2 the underlying assumptions that led to the transmission
3 line approval.

4 So forgive me for going into the weeds, but it's
5 really important to see how the various pieces feed into
6 each other.

7 So I also just want to mention that back in 2010
8 along the time of the RETI process, the CPUC and the CAISO
9 established a memorandum of understanding of how this
10 process would work. Back then we referred to it as the
11 MOU. Now we're calling it the process alignment. It's all
12 part of this effort of coordination. The MOU recognized
13 that the ISO will incorporate into its transmission plan
14 scenarios for the long-term -- sorry, scenarios from the
15 long-term procurement planning process to the maximum
16 extent possible.

17 And the CAISO does so with the goal of trying to
18 identify the needed transmission elements that are
19 supporting the State's previous energy policy goals.

20 This Memorandum of Understanding and this process
21 is really a monumental leap forward compared to where we
22 were a few years prior to that when the new infrastructure
23 investments were being driven largely by generator
24 interest. And the CAISO queue was very large; there were
25 over 50,000 megawatts of generation in the queue. And so

1 that spawned the understanding that we can't plan
2 infrastructure in response to just generator interests, but
3 we had to use a more policy-driven approach.

4 All of that is now in place in the CAISO Tariff
5 and in this staff-to-staff process alignment that I've been
6 describing.

7 So over the past few years the process has worked
8 well. And the TPP has made some significant infrastructure
9 approvals as was shown in the slide by Neil Millar. And we
10 have been checking each year to make sure the
11 infrastructure is in place to support the existing 33
12 percent RPS goal.

13 But as we look to the future expansion of
14 renewable energy development and low-carbon resources that
15 will be needed to serve the State's energy needs, as
16 Commissioner Florio said for the next 15 years, we don't
17 have all of the answers yet to what else will be needed in
18 the future.

19 And we know we have a lot to learn from the
20 special studies that we are conducting and we will continue
21 to conduct. We have a lot to learn about how distributed
22 generation, energy only; resource diversity can meet these
23 future needs. And what I just wanted to leave people with
24 was to just emphasize that our coordination efforts of
25 passing back and forth assumptions and scenarios and inputs

1 and models -- and we do this on a cyclical and annual basis
2 -- is a good foundation that we can function with as we
3 work towards that future.

4 We need to be strategic, thoughtful and inclusive
5 as we gather and analyze our information. And help the
6 next generation of infrastructure planning investment
7 decisions be made in a thoughtful manner. So thank you.

8 PRESIDENT PICKER: Thank you.

9 So we actually have invited two representatives
10 from the publicly-owned utilities. This is always unusual
11 for the Public Utilities Commission, because we tend to
12 forget that we don't regulate everything that moves on the
13 face of the planet. But 30 --

14 COMMISSIONER PETERMAN: (Indiscernible)

15 CHAIRMAN WEISENMILLER: How about the people that
16 don't move.

17 PRESIDENT PICKER: -- 30 percent of the State's
18 energy needs, electrical energy needs, are met by public
19 utilities of one side or the other. So I think it's very
20 important to begin to talk about your interests, your
21 needs, your processes as we begin to move into this
22 discussion. So thank you.

23 Mr. Tippin?

24 MR. TIPPIN: Yeah, thank you very much for the
25 opportunity to speak today. My name is Barry Tippin. I'm

1 the Director of the Redding Electric Utility to the north
2 of us here. And I currently serve as the Chairman for the
3 Balancing Authority of Northern California and the
4 Transmission Agency of Northern California or better known
5 as BANC and TANC.

6 TANC, as most people would know, is several POU's
7 that have, through a joint powers agency, have access to a
8 500 KV line to the Oregon border and through which we
9 transact with the Pacific Northwest.

10 BANC is a balancing authority that includes the
11 cities of Redding, Roseville, Shasta Lake, Modesto
12 Irrigation District, the Sacramento Municipal Utilities
13 District and the Trinity Public Utilities District as well
14 as contains generation and transmission facilities under
15 the Bureau of Reclamation and the Western Area Power
16 Administration.

17 BANC has different challenges in terms of
18 operations of the transmission system and the integration
19 of renewables. Within the BANC footprint, each individual
20 utility is responsible for regulating and integrating its
21 own renewable resources. And we do that through
22 traditional trade agreements amongst each other or other
23 POU's outside of the ISO and with a contract for the Pacific
24 Northwest. As you likely know we are not in, and have not
25 been in an organized market.

1 Our renewable portfolio consists of firmed
2 products, dispatchable products, and regional procurement
3 products that were procured prior to the bucket scenarios
4 that have been required of late.

5 We don't have any pending retirement of
6 antiquated thermal units, so most all of our units are
7 actually fairly efficient and meet current standards. And
8 so we're not facing some of those same issues that face the
9 rest of the State.

10 With regard to the current process that we're
11 speaking of, RETI 2.0, really I would offer four main
12 comments. And I think you'll find a lot of commonality to
13 our comments versus what you've heard today already. And
14 what many of you echoed earlier.

15 We really support the statewide process. I think
16 it's a necessary element. We were involved in RETI 1.0, as
17 we're calling it now since we have a 2.0, and we certainly
18 expect and would like to be a collaborative partner in RETI
19 2.0 in the development of that product.

20 We very much also agree with the idea of not
21 jumping to the conclusion that all new renewable resources
22 must be met through new transmission. The idea of
23 optimizing the existing systems, I think, is critical. I
24 think that also needs to take the form of looking at the
25 existing corridors and what can you do with existing

1 corridors? And building out those corridors and/or
2 retrofitting them with DC lines or some other fashion that
3 could increase capacity.

4 I think it's important to look at local solutions
5 that may be available. I know currently it's not in
6 consideration, but certainly the deployment of distributed
7 generation is going to continue to proliferate and continue
8 to provide a valuable offset to greenhouse gases. And
9 there's certainly a need to continue the conversation in
10 terms of whether it counts and how it should count.

11 You know, we need to reorient our thinking in
12 terms of the connection to renewables, that we're
13 delivering renewable energy maybe and not just resource
14 adequacy. And that may provide some opportunities for
15 using of the existing systems.

16 Building new, significantly new, and large
17 transmission systems is a very costly endeavor. And it has
18 considerable environmental harm and hurdle and it may be
19 the most valuable transmission is one that's not built. In
20 terms of land use planning I think that's a very important
21 element that's been brought up a few times. And hailing
22 from a small city, it's very important to us in terms of
23 local control on planning issues and land development
24 issues. And I think harmonizing those elements are very,
25 very important. State and local jurisdictions often have

1 different points of view and they have cross-purposes. And
2 so making sure that early on we recognize those differences
3 and work to make sure that we identify those and work
4 through those is important.

5 Failure to do is when you perhaps end up in
6 litigation. Litigation, I think, is a very large hurdle
7 for us in terms of meeting our goals within the timeframes
8 that we've set forth for ourselves.

9 I think we need to face the fact that when you
10 have prescriptive solutions to greenhouse gas reduction
11 that you logically place environmental attributes of a
12 project, perhaps ahead of environmental harm. And that can
13 lead to things requiring overriding considerations and
14 predetermined outcomes. And I think we need to recognize
15 that, because when you prescribe a certain product to meet
16 greenhouse gas reduction goals you certainly add an element
17 to the land use planning that is not normally in place when
18 you look at alternatives.

19 On way, I think to offset that, goes back to not
20 only distributed generation but other things that can
21 happen in a local community. When you look at the 50
22 percent energy efficiency goals that are being placed,
23 that's going to have a big effect. And there's a lot of
24 ways that utilities can participate in helping in
25 transportation electrification, infill housing perhaps and

1 energy efficiency that comes from that. Other elements
2 that might be able to be used to not only hit the 50
3 percent reduction in energy -- or increases in energy
4 efficiency, but also shave peak loads, driving down the
5 need for new generation and new transmission.

6 I think those all need to be encapsulated in some
7 form and fashion. It probably doesn't go forward in a long
8 set, but it certainly needs to be upfront, because as
9 you're doing your forecasts, as you're looking at the need,
10 if you ignore those key components then you might
11 overbuild. And overbuild is something I don't think we
12 want to do. Not only for the environmental issues that
13 we've spoken about, but perhaps most near and dear to my
14 heart is consumer impact.

15 We haven't addressed that in any significant
16 form. And I think we need to recognize that costs are
17 rising for our consumers. And they don't appear to be
18 going down in any fashion. Even with a increased footprint
19 for transmission and perhaps a reduction of overall costs I
20 think we all recognize that the influx of the renewable and
21 the requirement for regulation of that renewable is going
22 to cost additional money for our consumers. And maybe
23 through energy efficiencies we can help lower or maintain
24 their bills or minimize increases on their bills.

25 But I think we need to recognize that the cost

1 per kilowatt hour will continue to climb. And that needs
2 to be an important aspect of what we do and what we think
3 about. And part of that will come back to whether we're
4 considering a optionality closer to home or whether we look
5 at the regional aspects. I certainly believe that the
6 regional aspects and the regional renewable sources will be
7 a necessary component. But we also need to pay close
8 attention to what opportunities we have closer to home to
9 reduce the burden on the consumers who ultimately will pay
10 the tab.

11 In conclusion, I think this is a great effort. I
12 think it's a necessary effort, but I think there's
13 significant challenges. And it's a very complex landscape
14 that we're working under and if we all come to the table
15 with a very open perspective I think we'll have a better
16 product.

17 PRESIDENT PICKER: Thank you.

18 Mr. Dennis?

19 MR. DENNIS: I'm John Dennis. I'm the Director
20 of Power System Planning and Development for the City of
21 Los Angeles Department of Water and Power. Thank you for
22 the invitation just to be here today and to participate in
23 this process. I'm just really excited about the
24 opportunity and the planning and what's going on and the
25 stage that we're at, here for the next step of where we're

1 going and with the aspect of 50 percent renewable. So
2 thank you again for this consideration.

3 And the current activities, we just want to give
4 a quick update on the current activities. What we're doing
5 to reach that and some of these that are specific towards
6 the transmission planning and action.

7 To date, in our system we have currently under
8 construction our Barren Ridge Renewable Transmission
9 Project. That is increasing the capacity of that line from
10 600 megawatts to approximately 2,000 megawatts. And that
11 brings in power from the Mojave and Tehachapi regions.

12 Again, in line with Commissioner Peterman's
13 information there, interestingly enough this is following a
14 corridor that was built 100 years ago to bring in hydro
15 power into Los Angeles. And following that same corridor,
16 so we will be putting in two new lines and re-conducting an
17 existing line to bring in that power to L.A.

18 In addition to the transmission projects this
19 particular one that's under construction, it's being
20 serviced next year. We're also adding additional equipment
21 for voltage support as we see this transition, so
22 synchronous condensers and static var compensators and
23 shunt reactors all out in the external system as well as
24 inside the L.A. Basin to take care of some of the changing
25 needs of our system.

1 As well, even inside L.A. we're reconducting some
2 of our transmission lines and replacing and building some
3 new to take care of our needs that are growing inside the
4 city.

5 As for the RPS renewable projects that are
6 underway, we are set to achieve our 33 percent renewable
7 energy by 2020. We have over 30 projects or programs that
8 are geographically dispersed over California and five
9 neighboring states. DWP expects a diverse resource mix
10 with approximately -- these are roughly about 50 percent of
11 that being solar, 25 percent wind and 25 percent geothermal
12 and small hydro, so very, very similar to the progress of
13 the State.

14 We're following that proportionately. We have a
15 1,687 megawatts that are in service today. We have 1,000
16 megawatts that are under construction and we have another
17 1,000 megawatts that are either perspective or planned, so
18 overall total there's 3,754 megawatts that are either in
19 service or under construction or planned. So very exciting
20 changes that are happening in our system as we look to the
21 next reach for 40 to 50 percent RPS and making that
22 stretch.

23 We still see a very strong interest inside of Los
24 Angeles to try to meet our interests inside the L.A. Basin.
25 And so our L.A. governance continues to express a great

1 interest for local solar and we're still trying to
2 incentivize that effort as well as growing more with
3 geothermal.

4 And then the next one is energy storage and
5 seeing where that goes, those opportunities that lie ahead
6 of us. There is still some infancy on some of that
7 technology that's growing. But we're looking at the likes
8 of battery ice energy and inlet air chilling for some of
9 our thermal plants.

10 Additionally, on some of the transformation that
11 we're undergoing is in addition to just the RPS, but in
12 correlation with that, we're repowering our coastal plants
13 to take our units off once-through cooling. And with those
14 replacements we are putting in some quick start units for
15 renewable integration as well as replacing our coal
16 generation. That will be in our mix and up to currently
17 and then 2025.

18 And then some areas of studies that are underway.
19 We're looking at all of the elements of generation,
20 transmission and distribution for maximizing renewable
21 energy on all those aspects. And looking at a variety of
22 studies internally, but also so that we can accommodate
23 just more renewables in our system and also make this a
24 sizable transition to be coal-free in 2025.

25 As far as collaboration and coordination that's

1 underway. We appreciate the opportunities to participate.
2 We're on active participation on several regional and in-
3 regional transmission planning groups that are both inside
4 the state and with neighboring states.

5 We're also, as part of our studies in addition to
6 those regional planning activities we're also looking
7 closely at reevaluating the Southern California Import
8 Transfer Study. And rerunning and revamping that to look
9 at what kind of imports we can bring into Southern
10 California, into our region. It's very important for us as
11 we look at that externally as well internally, our needs.

12 As for challenges that lie ahead of us, and our
13 wish list in some of this process, obviously to set some of
14 the criteria for what we're looking at -- the rulemaking.
15 Certainly we just need them to be clear and consistent and
16 predictable in the rules that we're facing towards
17 renewable energy. And I think with that predictability as
18 well it'll invite and encourage long-term investments. And
19 so a steady hand at that rulemaking will be extremely
20 important and greatly appreciated as we look at these.

21 As I noted what's really interesting is that as
22 we look at this transmission corridor, some of these that
23 we have, they're 50 years old or even 100 years old. And
24 so they've done well for our state and for our region. And
25 these are the footprints that are being laid today. And

1 they will go a long time. So as we look at these rules of
2 interest that we're forming again, that will be extremely
3 helpful as we lay out and actually build these systems out.

4 The other area, just of great importance is the
5 integration and optimization issues that we do face. Now,
6 that we've got a good handle we're starting to feel how
7 these systems are working together and tying together.

8 We do see some challenges as we start to look
9 ahead, so forecasting tools are going to be important even
10 as we enter into 20 and 30-year contracts or agreements for
11 building these systems. Even though some of that
12 technology doesn't exist today, we know that it will
13 improve and it will get better in ten years.

14 And so we can anticipate some of that as we look
15 at contracts and build some of these systems. And so we
16 can anticipate that and work with the industry as far as
17 those forecasting tools and what they may look like. And
18 even though we don't have those answers to date, we believe
19 that they will be there for us. And we can anticipate some
20 of that.

21 Curtailment is going to be something that'll be a
22 part of that mix as we start to look at this, what that is,
23 and ride through capability. Just of interest, as we look
24 at the reports that came out from RETI 1.0 we start to see
25 some technology that today -- it was estimated at a certain

1 price and today it's a third of that price that's being
2 offered. And so the concern as we start to look at grid
3 reliability that we don't want to move and everybody just
4 swing to one particular technology. And to find that sweet
5 -- it's attractive as a price, but a dependence on one
6 technology could be harmful to our state and to our region.
7 And so we want to make sure that we look at those
8 opportunities and what the needs are with the reliability
9 of our system.

10 So with that we'll look further at these studies
11 with storage technology and making sure that we look at
12 diversity. And diversity doesn't mean just in the
13 technology alone, but as well the regions. And so we're
14 starting to get a feel even as we see cloud covers and
15 certain patterns coming through, how far we should look at
16 these in perhaps spreading out those projects to different
17 locations or different regions.

18 And sometimes just because the wind is blowing
19 and you think they're separated by many miles or even
20 across different stateliness, the correlation of some of
21 those can be very, very close. And so we need to look at
22 some of that and how that affects for integration and even
23 as we look at the storage needs.

24 So lastly just to say is that our emphasis, I
25 think, what has been our mantra along this line is

1 reliability and rates that are reasonable for our people
2 and responsibility towards the environment. And that is
3 going to be accomplished through our greenhouse gas
4 reductions and renewable portfolio. But we just look
5 forward to the collaborative efforts in these transmission
6 studies and the projects that will provide long-term
7 sustainable benefits that move us towards these new goals
8 that are in the State of California.

9 So thank you for the opportunity to participate
10 today.

11 PRESIDENT PICKER: So questions for any of the
12 staff and the publicly owned utilities?

13 COMMISSIONER FLORIO: Yes, for Mr. Dennis.
14 Obviously we at the PUC don't have much of a window into
15 what your planning is doing, but just various media
16 reports. But what's the current thinking about what
17 happens when Intermountain Coal shuts down? Are we looking
18 at gas storage, using the transmission to bring in
19 renewables, what's the status of that? I know it's not
20 finally decided, but...

21 MR. DENNIS: Perhaps all of the above. At this
22 point the participants in the project have made an
23 agreement or they're working on their final agreements as
24 far as what they will do. But basically is it'll allow
25 them the opportunity between now and 2020 to work on what

1 that will look like or what that new facility would look
2 like or what that region would look like in bringing that
3 power or taking care of that. Would it be all a complete
4 replacement? Would it be a mix of gas or there's
5 alternative energy resources that are in the region?

6 So those studies once they're all in agreement,
7 the 38 participants that are in there, then they will work
8 on those particular studies as far as what will be best for
9 all the entities involved. So we would see that taking
10 shape in the next five years. And then lock that in and
11 the period from 2020 to 2025 would allow for the design and
12 construction of that facility to be replaced and ready to
13 operate by that date.

14 COMMISSIONER FLORIO: Okay. Thank you.

15 COMMISSIONER DOUGLAS: Yeah, just a brief comment
16 if I could for Mr. Tippin?

17 Some of your comments really hit some themes that
18 I've become pretty familiar with in some of our local
19 government outreach. You know, the relationship between
20 local government, land use jurisdiction and local planning
21 and broader, kind of higher-scale planning initiatives like
22 RETI 2.0 and for that matter, RETI 1.0 when we were working
23 on that, and DRECP of course.

24 The kind of broader interest in a way, you know
25 we're convening here to talk about renewable energy and

1 transmission planning. And that's a really core part of
2 our greenhouse gas goals, but of course on the local
3 government side you're seeing energy efficiency. And so
4 are we, in fact. In our business meeting we approved the
5 AB 758 Implementation Plan for Energy Efficiency in
6 Existing Buildings. There is a major component of
7 partnering with local governments and other entities around
8 the State to make that a reality and to achieve the goals
9 in that.

10 You brought up electrical vehicle charging. And,
11 of course, this is Commissioner Scott's world, but in her
12 world the Energy Commission and the PUC as well, this is
13 another area where we cooperate very closely with the PUC.
14 But one thing that we've done is provide some readiness
15 grants to local governments for their planning.

16 So I just wanted to acknowledge you bringing up a
17 broader set of issues in the energy picture, it's something
18 that we've both heard and experienced in conversations with
19 local governments. And that we're very open to talking
20 about it. I think the Energy Commission generally is
21 recognizing increasingly as we move forward with our
22 greenhouse gas goals the partnership between us and with
23 local governments is going to be incredibly important.

24 And Mr. Dennis, I didn't mean to just address
25 Mr. Tippin with that, because of course we're working with

1 L.A. on a number of initiatives and really need to be.

2 MR. DENNIS: If I could just follow on that one?
3 Thank you. With regards to the transportation and
4 electrification of the transportation systems, it is a big
5 part of our Integrated Resource Plan towards the overall
6 reduction of emissions. But it does create an additional
7 burden perhaps, even on the electric system. And so we
8 have to be prepared for that.

9 And that's why is I said our emphasis is not
10 only just for the external as we deal with the transmission
11 and bringing it into Los Angeles or producing it locally,
12 but also making sure that our Grid is robust enough to
13 handle our forecast for vehicle electrification in all
14 aspects of transportation. Ultimately, the goal is for
15 that greenhouse gas reduction.

16 COMMISSIONER PETERMAN: Just, you know, building
17 upon that. I appreciate that it's been good to be reminded
18 that there are other pressures that might be driving a new
19 transmission planning initiative beyond the 50 percent
20 renewables target. And so particularly with transportation
21 electrification I've been thinking a lot about distribution
22 level upgrades. But if we actually get to the goals that
23 we're striving for there'll be some transmission level
24 impacts as well.

25 And particularly, just bringing up Intermountain

1 and so it would be useful, as that fleshes out, what are
2 the problems we're trying to address going forward to
3 really pinpoint what are some very unique kind of one-off
4 things that are going to happen in the next 10 to 15 years
5 not only from state policy, but from federal policy as
6 well.

7 I also appreciate, specifically, the raising of
8 the issue of cost, because everything we're trying to do is
9 just to plan smarter, which hopefully should lead to lower
10 costs. But really highlighting that as a goal, I think, of
11 this process as well is important.

12 So one question I had particularly for the
13 agencies that talked about process alignment, is that it
14 seems that this process alignment is a very delicate and
15 time-sensitive process. And I was wondering if you could
16 speak to what parts of that process maybe take the longest
17 or the timing is most uncertain?

18 You know, where are there some bottlenecks that
19 a) future planning process of RETI 2.0 could help inform,
20 because it sounds like things are going well. But things
21 can always go better, so what can we do to help? For now
22 and for the future.

23 MR. MILLAR: I'll take the first cut of that,
24 Neil Millar with the ISO.

25 The timing of the various processes we think we

1 have very tight right now, they are feeding properly into
2 each other. I think the big issue that we need to make
3 sure of is an issue though that Molly touched on initially,
4 which is when we get through to actually making those
5 decisions, the decisions are good but we also need to be
6 able to move to implementation.

7 So the permitting processes, the downstream work
8 after we've all agreed that these are the facilities we
9 need, tied to the right assumptions and inputs, we then
10 need to make sure that the execution can also be delivered
11 on a timely basis.

12 So I think the additional coordination into the
13 various permitting processes is also really important. In
14 that scenario I think we will have to spend a bit of time
15 on in the future to make sure that we still respect
16 everyone's responsibilities and authorities, but also
17 ensure that those processes move forward as efficiently as
18 possible.

19 MR. CASEY: If I may just put a finer point on
20 Neil's comment?

21 It really gets to not starting from square one
22 when we get to the permitting process for determination of
23 need. How can we leverage the study work that goes into
24 the planning process, into the permitting process to really
25 not get bogged down in starting all over again?

1 CHAIRMAN WEISENMILLER: Yeah. I would remind
2 everyone if you look at the Governor's Clean Energy Jobs
3 Plan, his goal was to get from six to eight years for
4 permitting building projects to three years. So we haven't
5 made -- we need to be smart from the start to make things
6 go smoothly, but we haven't made much progress in that sort
7 of expedition of transmission projects, say.

8 COMMISSIONER PETERMAN: Yeah, I think that makes
9 sense. I'd also note that what we talked about in a
10 previous IEPR Workshop also was again, that better
11 alignment between the planning process and the procurement
12 process as well. And so in the most recent staff paper on
13 the RPS Calculator we've asked for some comments about some
14 of that process alignment, because again not wanting to
15 start from scratch but respecting each entity's
16 jurisdiction and decision-making role.

17 PRESIDENT PICKER: To both Mr. Dennis and Mr.
18 Tippin, we're talking about trying to construct a process.
19 And even here on the table there's differences in terms of
20 the scope of our jurisdiction. We deal with five regulated
21 utilities. We don't really have a process, our calculator
22 wouldn't necessarily actually take your needs into account.

23 The CEC does actually have more of a geographic
24 authority although they don't generally take the lead on
25 permitting some of your projects. And so how does this

1 process that we're talking about become useful to you? Is
2 there just going to remain the traditional disconnect,
3 because you operate within your own balancing authorities?
4 Are there things here that we can do that actually would
5 help to build some sense of how this helps the State of
6 California to meet its overarching goals in terms of clean
7 energy, reliability and affordable power bills?

8 I'm just trying to understand what the continuing
9 relationship ought to be with the publicly owned utilities
10 as we move forward.

11 MR. DENNIS: I had the privilege years back, of
12 sitting in on a variety of the meetings with the California
13 Transmission Planning Group. And what I really appreciated
14 in that process -- and some of our individuals --
15 Dr. Mohammed Beshir was actively involved in that -- is
16 that the group was given particular guidelines and
17 criteria. And there was some liberty obviously with
18 setting some timelines to really think it through. And
19 with an independent way to just really creatively think
20 that through, what needed to be done.

21 And I really appreciated the purity of that
22 process. I think that was very healthy. And from that I
23 believe the timelines that Neil has described came about in
24 setting those, so that those are done on annual basis. And
25 you've got that process that's been refined and fine-tuned

1 in there.

2 For us, I believe that as CAISO has indicated
3 their involvement in collaboration with the other entities,
4 WestConnect and some of those others that they're involved
5 with, is of most help to us. That we're participating in
6 those actively and not just looking here in the State, but
7 also looking -- and I think that's obviously an interest by
8 the State, as was commented earlier to start to reach out
9 further to take care of not just our transmission
10 interests, but also the renewable energy interest.

11 I would say as far as one of them, we are focused
12 on the planning. It might be something that just in the
13 execution of projects at times, sometimes when we're
14 crossing a variety of different areas whether it be
15 different kinds of utilities or crossing particular areas,
16 there are sometimes some just very difficult areas to
17 execute that. The individuals that might be sitting at a
18 desk or whatever that might be, sometimes that just needs
19 to be escalated in a variety of ways in order to execute it
20 and make sure that those jobs are delivered in a timely
21 fashion.

22 So that might be an area where we could have an
23 SOS to help come to and perhaps be a tiebreaker when we
24 have some of those difficult -- with some large entities
25 that might be here in the State or even in the U.S. to work

1 through some of those. For efficient and getting those
2 jobs delivered on time.

3 MR. TIPPIN: Thank you. That's an excellent
4 question and I would echo many of the same comments.

5 I'd also state that while we have access to our
6 own transmission either through ownership or contract, many
7 of us within the BANC footprint also rely pretty heavily on
8 the Western Transmission System. And so that transmission
9 system is vast as you know, and it goes throughout the
10 Western United States. And I suspect it will be a major
11 element as you look at optimizing the existing
12 transmission.

13 And certainly with the Clean Power Plan and the
14 direction that the federal government is going in relation
15 to greenhouse gas reduction we fully expect that DOE and
16 Western will continue to be a player in all of this
17 discussion. And as such we certainly find it valuable to
18 us for us to be involved.

19 PRESIDENT PICKER: Great. Is there anybody else?

20 I wanted to note that Mike Sintetos (sic) from
21 the Bureau of Land Management is on the phone with us.

22 Michael, do you have anything that you want to
23 add to the conversation?

24 MR. SINTETOS: Yeah, can you hear me okay?

25 PRESIDENT PICKER: Yes, we can.

1 MR. SINTETOS: Great, thanks President Picker.

2 Jim Kenna, the BLM California State Director
3 wanted to send his apologies for not participating today.
4 He's traveling, but just asked me to say a few words.

5 BLM has obviously been an active partner with the
6 State through the RETI 1.0 process and now through the
7 DRECP process. And so we just wanted to reiterate that
8 we're committed to maintaining that partnership into RETI
9 2.0. Obviously, this is very important not just for state
10 goals, but also for federal goals. So we look forward to
11 being a part of all the work going forward.

12 PRESIDENT PICKER: Okay. Thanks.

13 So I think at this point we were going to talk a
14 little bit about Next Steps, Mr. Alvarado?

15 MR. ALVARADO: Good morning. I think we had a
16 pretty good discussion earlier today covering many of the
17 lessons learned from our previous collaborative stakeholder
18 processes.

19 There was also a very good discussion about the
20 process alignment activities going on between the Energy
21 Commission and the Public Utilities Commission and the ISO.
22 I think we have a pretty robust and timely process of the
23 different jurisdictions and analytical activities between
24 the agencies.

25 We've also discussed some of the many new

1 challenges that we're likely going to encounter as we
2 consider a future where we're expanding the number of
3 penetrations of renewable generation in California. These
4 challenges are not only in what's considering how much new
5 renewables, what is economic, but also how these renewables
6 will also integrate well into the system.

7 And we consider operational optimization
8 considerations -- that was brought up too -- but there are
9 many other uncertainties we do need to consider. I think
10 there was a discussion about potential electrification.
11 There are a number of many other assumptions that we need
12 to consider as we move forward to evaluating and coming up
13 with an expanded analytical activity to evaluate new
14 transmission for California.

15 So just launching from this strong foundation
16 that we already have, and as we move into RETI 2.0, the
17 very first step that the agencies are going to engage in is
18 to develop a Draft Work Plan working closely with the
19 Public Utilities Commission, the California ISO. And as
20 we've discussed, also expanding the scope into the rest of
21 California. It's very important to include the other
22 California balancing authorities.

23 And without a doubt we are interconnected with
24 the rest of the Western region and we will eventually need
25 to expand our analysis to consider the opportunities and

1 how we're going to operate with the rest of the WECC
2 Region.

3 So this first next step we'll come up with a
4 Draft Plan, which will be considered between the agencies
5 and this is a stakeholder process. So it is very important
6 to us to bring all these efforts before you.

7 We also -- Mr. Flint had also talked about some
8 of the ongoing analytical activities here at the Energy
9 Commission that's covering the environmental data and
10 analytical approaches. We've already hit the ground
11 running, so this is going to be -- we're going to be moving
12 forward with this effort. And we're also going to be
13 planning a series of workshops to at least cover this
14 activity and everything else as we move to bring in all of
15 the considerations.

16 It is important to bring and engage all
17 stakeholders, the tribal leadership, our federal, state and
18 local agencies. I think we have many involved here today.

19 In an effort to facilitate this open dialogue we
20 are developing a website and we hope to at least use this
21 website as a means to provide as much information to the
22 public as possible. And also this will be a location where
23 we can also receive any comments. The URL for this
24 webpage, it's still under construction, but I have them
25 listed here.

1 For the public that wish to participate we do
2 have a new docket for this RETI 2.0 proceeding. We
3 encourage you to sign up to our Listserve and you will be
4 receiving notifications on every step of the process that
5 we engage in.

6 We've also, in the Workshop Notice, we've also
7 asked as we kickoff for this introduction to the RETI 2.0
8 we want to give everyone an opportunity to provide and file
9 comments. And we have a date of September 24th. And if
10 you wish to provide comments and file comments I have also,
11 the third bullet here, a location where you can file
12 comments online.

13 With that, that's my short quick list of the next
14 steps. I do think this is going to be a pretty robust
15 process, a lot of activities. That's going to be running
16 through this year into next.

17 PRESIDENT PICKER: So I just wanted to make a few
18 comments. I'm going to take the prerogative of jumping in
19 first. And then after the other agency folks here make
20 comments, we'll go to public comments, which may also help
21 to inform the steps forward.

22 When you come back to us with a Work Plan, I also
23 hope that you'll come back to us a little bit with some
24 discussion of what the proper governance is for actions.
25 We've sort of impaneled this informally and so I think that

1 it's important for us to actually investigate what the role
2 is -- for the feds will be. You know, come to a couple of
3 things that we need to that we need to take into
4 consideration when we look at that.

5 Second, is that we're going to face challenge in
6 trying to figure out what goals are we actually pursuing?
7 And so I'll just say that some of the modeling on the
8 Governor's Executive Order in the 2030 Goal actually tells
9 us that we would be focused more, at least on renewable
10 energy, on a 60 percent goal than a 50 percent goal. To
11 meet our 2030 goals we'll actually have to incorporate a
12 higher proportion of our generation from renewables than we
13 really would need if we were just pursuing a straight out
14 renewables goal.

15 So if the basic rule is that you get what you
16 count, and we're actually trying to get to a reduction in
17 greenhouse gas rather than simply building renewables, we
18 have to begin to factor that in. So we ought to have a
19 little discussion on that.

20 I do think that we've heard a couple of things
21 around the table here. One is that we need to do things
22 that we didn't do during the ARRA process. And the ARRA
23 process, it was really far more aimed at getting projects
24 built, helping the industry to get established. At this
25 point solar and wind are pretty well-established throughout

1 the U.S. When you can get three-cent wind out of both the
2 west and the Midwest, utilities are just procuring it.
3 When you can get four and five-cent solar contracts in
4 increments over 100 megawatts there's not as much tension
5 on simply trying to force projects.

6 So I think that we will have to spend more time
7 as we think this through on the liability. As the Governor
8 says, "keeping the lights on and keeping bills affordable."
9 So I think that we're going to have to really refine that
10 least cost, best fit model. It can't simply be a least
11 cost. It has to be a least cost, best fit. So I think
12 that people here have pointed both to an eye to integration
13 of renewables and a regional and technology diversity. So
14 I think we'll have to really factor that into our Work Plan
15 and into our thinking.

16 I'll say that when we start to talk about
17 integration we're sort of in the new world. It's not just
18 enough energy, it's what do you do with those parts of the
19 day and times of the year when you have too much? And so
20 there's a value to having a multistate approach, both in
21 terms of the diversity of resources that may help us to
22 actually integrate the resources, but also a larger market.

23 If we want to sell a 1,000 megawatts of excess
24 renewable generation from the State of California it may
25 help us to actually think about those things and model

1 those things. So as we look at the technical challenges we
2 really have to have a multistate look. We have to look at
3 portfolios that cover a larger geographic basis.

4 That then brings us back to the importance of
5 having our federal partners. And it may actually be new
6 partners and I think we really need to think about how do
7 we do this.

8 The next thing that I just really want to point
9 to, is that we really need to think very hard about what's
10 a stakeholder process where we can talk all these issues
11 through? And maybe early enough that we can actually
12 refine our thinking -- while I think that when we get to
13 governance we will want to make sure that decision makers
14 actually have a role in the process to provide direction.
15 And to set up for the kinds of decisions that we're
16 statutorily required to make.

17 We do need to build in the stakeholder process
18 early enough that there's a consensus, both about the
19 inputs and the outcomes. And so I think that's another set
20 of challenges that we'll face.

21 And I have to say that it would be useful to
22 continue to have discussions with the publicly owned
23 utilities, because ultimately the electrons tend to be a
24 little bit less finicky about political and economic
25 jurisdictions than we are as policy decision makers. So we

1 should look at that as part of this question of diversity
2 of resources.

3 So I'll just leave that there. I've heard other
4 people speak to some of these things. I also just wanted
5 to underline them as being very important to the Public
6 Utilities Commission.

7 CHAIRMAN WEISENMILLER: Yeah, thank you.

8 I think on the framing, just to follow up,
9 obviously our focus is greenhouse gas, which means -- and
10 frankly buying renewables that we then have to curtail,
11 doesn't really help us on greenhouse gas or economics. So
12 we really have to be thinking a lot more on the best fit
13 side.

14 You know, I've certainly -- at a recent IEPR
15 workshop one of the utilities assured me that issue was the
16 ISO's problem; that they would buy it or whatever. And I
17 think we have to have a broader perspective than that. It
18 comes back to, you know, people always talked about in the
19 original siting stuff "more smart from the start."

20 And I think that's sort of the mantra we want
21 here is to figure out what we want to do given the
22 greenhouse gas side. And try to use this process to winnow
23 out things we don't want to do or how to get the maximum
24 value, both from a greenhouse gas, environmental
25 prospective. And I think that's going to require much more

1 of a regional focus.

2 So while we're not empowered to plan for the west
3 that's certainly the participation of other balancing
4 authorities around the west, particularly given the energy
5 and balance market issues, will be very valuable in this
6 process. And that will require some degree of melding
7 where we have very detailed environmental data to where we
8 have lesser data, lesser quality data as we go forward.

9 And I think it also good to keep in mind this
10 basic thing of if we can do smart from the start, if we can
11 mesh our processes together, then presumably we should be
12 able to move through some of the processes more efficiently
13 and effectively.

14 But again, I think the basic balance of
15 greenhouse gas cost and reliability will drive us. Again,
16 it's very important as we go through this process to make
17 this something that makes us all smarter on how to get
18 between here and where we want to be in 2030.

19 COMMISSIONER PETERMAN: I'll note that what I'm
20 looking forward to seeing in the Work Plan, is some sense
21 of recommendations from staff in terms of prioritization of
22 what makes sense to focus on in the next six months to a
23 year. Both from an ease perspective as well as an
24 importance perspective. We've raised a lot of issues,
25 which we will need to address in order to do the

1 transmission properly for 2030. But some, for example,
2 like planning for transportation electrification will be a
3 little more complicated.

4 You know, from the presentation, for example,
5 from Scott and Roger it seems like the CEC -- and also from
6 Ken Alexis -- that the CEC has got a lot of tools and
7 development whether it's working on the San Joaquin Valley
8 or some of the intactness modeling. And so I'm interested
9 if there are things that are getting close to being baked
10 or really are at the point where they would benefit from a
11 more robust stakeholder process that we prioritize those,
12 so that we can incorporate them into the work that we're
13 doing.

14 I'm also looking again, for guidance about how do
15 we continue to coordinate what we'd like to do with what
16 we're already doing. I think we've gotten good input so
17 far today that there are processes that are in the works.
18 And as we pursue smarter strategy, I don't want us to drop
19 the ball on what we need to do in terms of providing the
20 ISO the inputs that it needs.

21 So I can envision, for example, that there will
22 need to be at points sometimes complimentary processes.
23 That sometimes these ramps will -- you know, putting a
24 clear point and time, we will start to combine processes.
25 But let's make sure that we're continuing to do the

1 transmission development. We need to for 33, 40 percent as
2 we plan for the 60 percent.

3 COMMISSIONER DOUGLAS: I was just going to say
4 briefly, and segue really nicely off of what Commissioner
5 Peterman just said, first of all I think the Work Plan and
6 governance is going to be very important. As is the early
7 outreach to potential partners in this effort and we're
8 going to need to focus on that.

9 And I really support all the guidance that I've
10 heard so far from my colleagues on the dais about
11 prioritization and goals for that Work Plan and for the
12 Governance.

13 As Commissioner Peterman just said, you know, I
14 also think in the Staff Next Steps Proposal -- puts forward
15 that we can really start now to start the dialogue and
16 stakeholder process on inputs, on data, on models, on how
17 that would be put together. On what you can learn, what
18 are the cautions around using it in some areas with maybe
19 less data than others?

20 You know, how do we best inform this process with
21 this one very important input on the environmental side?
22 That is one of many things we're balancing and not the only
23 thing. But it's important and it can start now, so I
24 wanted to -- I think I saw one iteration of that slide that
25 said the first workshop might be in September. And the one

1 I saw today said October, but whether it's late September
2 or early October I want to encourage stakeholders to engage
3 with us. And as Scott said I think the idea would be
4 working sessions as we crunch through inputs and approaches
5 with stakeholders.

6 COMMISSIONER FLORIO: Yeah, just on the outreach
7 point I think it would make sense to reach out to other
8 states. And project developers who have specific things in
9 mind I think will find us. They're probably in the
10 audience today, but both Commissioner Scott and I sit on
11 CREPC, the Committee for Regional Electric Power
12 Cooperation. And maybe we could try to remind each other
13 to mention at the next meeting there -- that's not until
14 the end of October, but a way where you have states and
15 energy offices and PUCs from around the west engage -- that
16 we can reach out there and let people know this is
17 happening.

18 And that we welcome their participation, because
19 if we just throw a California party we're only going to
20 have California solutions. And I think -- I don't know
21 what the role is for out-of-state, but I'm pretty sure it's
22 not zero. So, you know, whatever we can do to make this a
23 big tent I think is beneficial in the long run.

24 COMMISSIONER SCOTT: I think that's a fantastic
25 idea. We ought to figure out if we can even get that on

1 the agenda. I think that would be terrific.

2 COMMISSIONER FLORIO: Yeah.

3 COMMISSIONER SCOTT: I wanted to just note that
4 underscores some things we've heard already today. That
5 how important it is for us to define our goals and really
6 emphasize what President Picker and Chair Weisenmiller said
7 that we're looking for greenhouse gas reductions. And I
8 think that that will drive potentially how we are looking
9 at things, whether it's the best fit, least cost, thinking
10 about how do we really integrate the renewables in a
11 reliable way?

12 I think the increased demand from transportation
13 electrification is going to throw a little bit of
14 complexity into this, but it will be important for us to
15 think about that.

16 Commissioner Florio mentioned in his opening
17 remarks that we are at a great point in time where we have
18 the advantage of being able to strategize this much in
19 advance. And I think that that is fantastic, but I also
20 want to make sure that we develop a process that's flexible
21 enough and nimble enough for us to be able to take into
22 account innovations, price changes, things like that that
23 we will want to be able to incorporate as we continue to
24 plan out through 2030 and beyond.

25 I also wanted to highlight that I heard, I think

1 it was Neil, who mentioned that the process alignment is
2 actually working really well right now, so I think that's
3 fantastic to hear. And I wanted to underscore what
4 Commissioner Peterman said about if there are things that
5 we can do to help with that or help make that process even
6 better, even more effective please, please think about
7 those and let us know. We're always open to suggestions.

8 And also just wanted to note I thought it was a
9 great question that President Picker had for the POUs about
10 what is it that we can do to make RETI 2.0 as useful as it
11 can be for you. And I think that's a great question for
12 many of the stakeholders. And as we continue to do the
13 workshops and the process I hope that people will think
14 about that and give us good, thoughtful feedback on that as
15 well.

16 MR. HUNTING: Just a couple of brief comments,
17 kind of carrying off of President Picker's and Commissioner
18 Douglas's comments. You know, we do have a chance to do
19 this right from the start, smart from the start, this time
20 around.

21 Our Department is very involved with the Energy
22 Commission on development of the models and some of the
23 information you saw in that mockup, at least of the energy
24 modeling. And there's a lot of data and information and
25 analysis that is behind those models that allow us to

1 really think through what's most important to our
2 Department and as a sensitive environmental issue, which is
3 siting.

4 You know, President Picker mentioned we have a
5 well-established energy sector now in California. We
6 should be more nuanced and rigorous in how we look at the
7 environmental part of analysis for planning for
8 transmission and for project siting. And we have the data
9 and the analysis now to do a much better job of that.

10 So I'm hoping -- you know, just kind of
11 transiting into the Work Plan -- I'm hoping we can spend
12 some time in a public way really looking at some of the
13 environmental modeling and some of the techniques that the
14 Energy Commission has now put together for building
15 scenarios for transmission planning.

16 MR. CASEY: Yeah. I'd just like to add too, I'm
17 very encouraged on the comments around the importance of
18 keeping the eye on reliability and the integration
19 challenge.

20 And an area where I think renewables can actually
21 help, I think, is actually being able to use renewables to
22 provide reliability services. I think we've tended to
23 think of renewables as "must take resources," that we've
24 got to get as much on the Grid as we can. But I think as
25 we get more sophisticated in thinking about it, renewables

1 can be part of the solution as well on the integration
2 side. And I think it may require thinking differently
3 about how we procure renewables in terms of the structure
4 of the contracts, in the ability of renewables to provide
5 economic curtailments.

6 Also, Commissioner Peterman as well Neil
7 mentioned this issue around resource adequacy. If
8 renewables have to count as a resource-adequacy resource
9 the bar for transmission goes up much higher.

10 And I think we'll have a good opportunity to
11 explore through some of the current work we're doing at the
12 ISO, what the implications are of that RA requirement. But
13 I think that scenario where we could greatly reduce the
14 transmission needs to get to 50 percent if we think
15 differently about the resource adequacy aspect of
16 renewables and just focus on the energy aspect. So I think
17 that's it.

18 And then, of course, the regionalism -- I'm very
19 encouraged by the comments on the regionalism. I think
20 that's a really low-hanging fruit for getting to 50 percent
21 that we should take full advantage of.

22 CHAIRMAN WEISENMILLER: We have two agency
23 comments and then we have public comments.

24 COMMISSIONER DOUGLAS: We still have other
25 agencies on the WebEx. I think Inland County.

1 CHAIRMAN WEISENMILLER: Okay. Well, in terms of
2 where I have blue cards I'll have to go through the cards
3 for people in the room. And then we'll go to the people on
4 the line. And again when we go to people on the line we'll
5 start with the agencies first.

6 So let's start with the Dry Creek Rancheria Band,
7 please.

8 MS. LAPENA: Good morning, my name is Michelle
9 LaPena. I'm an attorney for the Dry Creek Rancheria Band
10 of Pomo Indians. I'm also a member of the Pit River Tribe
11 of Northeastern California. And I participated initially
12 with the RETI 1.0 when that first started and some of my
13 comments are going to be the same as I said several years
14 ago.

15 Today I'm pleased that on the last slide there
16 was tribal involvement and input into the development of
17 the Work Plan. But I am concerned that there's not tribal
18 representation on any of the panels.

19 The RETI Initiative, the very first meeting last
20 time, included the Chairman of the Native American Heritage
21 Commission and a representative from the BIA was eventually
22 involved. And I was expecting that there would have been
23 some lessons learned on that front.

24 And we now have a representative, Cynthia Gomez,
25 in the Governor's Office. And I'm kind of wondering why

1 she's not here? If she just wasn't able to be here today.

2 Commissioner Peterman asked the question, "What's
3 missing?" and I say that it's the tribal governments and
4 the tribal interests, because we have over 109 Indian
5 tribes in California. They have jurisdiction that is mixed
6 and varied. Some have lands that are quite extensive and
7 resource-rich. And some are developing renewable energy
8 projects on their Indian reservations and rancherias.

9 Tribal governments really do have intimate
10 knowledge of their aboriginal areas and so there's kind of
11 two prongs to the tribal involvement.

12 One is the upfront consultation with the tribes
13 on the impacts to the environment. I noted in the comments
14 about the Central Valley Plan the comments were focused on
15 ag and species impacts, but I am positive that there are
16 cultural issues in the Central Valley area. I don't know
17 what the CREZ looks like, if this was a CREZ-defined plan.
18 But if so there are many tribes in the Central Valley that
19 have GIS databases and have information that would be
20 informative to the process. And help you avoid cultural
21 sites that could be avoided early in the process.

22 And I know there's representation here from OPR
23 today. And I can vouch for them that OPR has the ability
24 to provide notice to the tribal governments that they've
25 worked with, the local governments, to establish guidelines

1 for the consultation with tribes.

2 And this is a perfect test to see if the State
3 can do it. The State is covered. I believe the CEC is
4 probably -- and this process is probably covered by the
5 Governor's Consultation Policy for all the statewide
6 agencies. And there is a process in place. I just
7 encourage you to implement it.

8 So on one hand there's the environmental impacts
9 that are potentially caused by new transmission lines. I
10 know that I've participated with a tribal client in the
11 past on the TANC process. Not to call you out, but I know
12 that it resulted in some unfavorable decision making. And
13 unfortunately that was at the end of the process.

14 And we're always trying to get tribal input at
15 the beginning, because it saves money. It saves time and
16 it involves the tribal governments in a way that's
17 meaningful and beneficial rather than the tribes coming in
18 at sort of at the last minute and upsetting the whole
19 applecart. And then the tribal governments are viewed as
20 in a real negative way. That we're sort of the naysayers
21 and we're undermining the whole process, when we really
22 want to be partners.

23 I don't know that tribal governments got notices
24 of this meeting today. I got it because I've been watching
25 RETI. I've been participating in the workshops, on the

1 phone. And I know that when the Desert Plan was being
2 implemented that I received questions from tribal
3 government officials, because I was the only one that
4 really knew anything about it at the time. And then that
5 may have caused some delays in the process where the tribes
6 were brought in late, so I encourage you to do that early.

7 But on the other hand the second prong really is
8 the tribes have the ability to be their own tribal
9 utilities. And they want to be participating in the
10 renewable energy grid and the upgrades and the
11 transmissions.

12 I have a tribal client today, the Dry Creek
13 Rancheria, who is very interested in the solar process and
14 developing a solar project in cooperation with the Army
15 Corps of Engineers up Sonoma County. And one of the
16 barriers to doing that is the grid, the transmission. The
17 space is not available in the transmission lines and so it
18 makes the projects that they would like to and are able to
19 develop unfeasible. They are just too expensive, because
20 the transmission capacity is not there.

21 And so when the State plans around the tribes
22 instead of including the tribes we have projects that can't
23 be putting renewable energy into the grid. And I think
24 that's a real shame that we can't integrate the tribal
25 projects into the grid and participate in the process.

1 So I encourage you to do that, I encourage you to
2 reach out to tribes. And I will be participating in the
3 development of the Work Plan to the extent I can.

4 COMMISSIONER DOUGLAS: Michael, (sic) if I could
5 quickly speak to this?

6 I appreciate your comments. I appreciate your
7 being here. The Energy Commission is covered by the
8 Governor's Consultation Executive Order. We mailed and
9 contacted every tribe in California to notify them of this
10 workshop, so that outreach was done.

11 As you have probably seen this is a very early
12 kickoff workshop. We have a number of really important
13 partners including all of the federal agencies, a number of
14 state agencies that are not on the dais with us today.
15 We're definitely anticipating some fairly robust tribal
16 engagement or hoping to have that.

17 We did get that in DRECP, although my involvement
18 with tribal conversations and dialogue in DRECP is more
19 from the latter half of the process.

20 So I really appreciate your comments and your
21 interest in engaging. I just wanted to welcome you to this
22 process. It's at the very beginning. And when we say
23 we're taking input, for example, from the San Joaquin Solar
24 process and other processes we are, but they're inputs.
25 And we have a process ahead of us that is just beginning.

1 Thanks for being here. And actually, Roger
2 Johnson, is our Tribal Liaison. If you wouldn't mind at
3 some point giving him your contact information, that's a
4 good follow-up.

5 MS. LAPENA: Thank you. I'm not surprised the
6 tribes didn't respond to the notice initially, because they
7 get a lot. And so they get notices on everything now. We
8 asked for it and now we have it. And now we have to deal
9 with it all, so I'll do my best to get the word out to
10 Indian Country as well. Thank you.

11 COMMISSIONER DOUGLAS: Thank you.

12 CHAIRMAN WEISENMILLER: Okay. Thank you.

13 Bob Laurie, IID, welcome back to the Energy
14 Commission.

15 MR. LAURIE: Chairman Weisenmiller, President
16 Picker, Honorable Members of the Panel and Staff, good
17 morning. My name is Robert Laurie. I serve as the in-
18 house Energy Counsel for the Imperial Irrigation District
19 headquartered in El Centro.

20 I want to thank you for the opportunity to appear
21 here today on behalf of IID. For those that are not very
22 familiar with IID I would simply note that we are the third
23 largest public utility in California, with control over
24 1,100 megawatts generated from a diverse portfolio. We are
25 an independent balancing authority with inner ties with San

1 Diego Gas and Electric, Edison, WAPA and APS. And we are
2 the largest irrigation district in the nation.

3 To those that reside within our jurisdiction
4 these proceedings are not theory, these proceedings are not
5 mere public policy. But rather these proceedings represent
6 possibility and hope for the residents of our district.

7 Imperial County has the highest unemployment rate
8 in the state. California's unemployment rate is 16 percent
9 -- strike that -- California's unemployment rate is 6.5
10 percent. Imperial's is 24-plus percent. Imperial is
11 number one in unemployment. And if you prefer, it's number
12 58 in employment. Either way the number is not good.

13 Imperial's poverty rate rests at about 23.5
14 percent. California's poverty rate is roughly 16 percent.

15 The air molecules we breathe are among the most
16 unhealthful in the State and the Nation. Why is this
17 relevant to our discussion today?

18 It is relevant, because the law mandates that
19 preference be given to renewable projects that provide
20 environmental and economic benefits to communities
21 afflicted with poverty or high unemployment or that suffer
22 from high levels of toxic air contaminants. Unfortunately,
23 Imperial is so afflicted.

24 Despite these statistics however, Imperial is
25 also an area of great wealth: wealth of spirit, wealth of

1 resources. We have nearly unlimited capacity for the
2 development of wind, geothermal, biomass development. And
3 of course the sun always shines.

4 In order to provide this development however we
5 are also willing and desirous of constructing or enhancing
6 transmission facilities in order to deliver such resources.
7 In order to do so we need to operate in a cooperative
8 manner with our neighboring, balancing authorities. IID as
9 a balancing authority, like all balancing authorities, must
10 provide customers open, nondiscriminatory, comparable
11 access to transmission services.

12 If we are to come anywhere close to maximizing
13 our productive capacity, and if we can deliver those
14 resources --

15 CHAIRMAN WEISENMILLER: Could you wrap it up?
16 I'm sorry. MR. LAURIE: Yes, sir.

17 CHAIRMAN WEISENMILLER: Certainly, written
18 comments will be great, but we're trying to keep everyone
19 to three minutes.

20 MR. LAURIE: Yes. If we can come close to
21 maximizing our productive capacity and deliver those then
22 all of California will benefit. On behalf of the residents
23 of Imperial and Coachella Valleys we look forward to our
24 participation. And we thank you very much for your time.

25 CHAIRMAN WEISENMILLER: Thanks for being here.

1 Lets' go to the Bay Area Municipal Transmission
2 Group.

3 MR. WAGLE: Good morning, Commissioners. My name
4 is Pushkar Wagle. And I'm here to make a statement on
5 behalf of the Bay Area Municipal Transmission Group, also
6 known as BAMx.

7 We welcome the joint agency efforts in working
8 together to help achieve the State's GHG Emission Reduction
9 Goals, studying what transmission infrastructure should be
10 to achieve a 50 percent renewable target is a worthwhile
11 effort.

12 And the good news is that your agencies have
13 developed very sophisticated tools, not available when the
14 RETI was originally formed. It is very important that this
15 joint agency effort fully recognizes and builds off of
16 those tools. You should be heartened to know that based
17 upon these tools the existing transmission system can
18 accommodate a lot more renewables than one might otherwise
19 think.

20 I'm going to keep it very short, because
21 Commissioner Peterman articulated very well in her
22 introductory comments, the couple of things that I was
23 going to mention. The one extremely valuable tool
24 developed by the CPUC's Energy Division is the RPS
25 Calculator and we heard about that. It's been used in the

1 last several planning cycles. And we are hopeful that the
2 latest version of this RPS Calculator is the start of the
3 effort to get more complete input from stakeholders before
4 the CEC and CPUC send those portfolios to the ISO.

5 As you recognize, the ISO plays a key role in
6 determining whether any transmission is needed to
7 accommodate renewables contained in those portfolios. In
8 concert with the Energy Division's latest efforts in
9 refining the RPS Calculator, the ISO in the current
10 transmission planning cycle will be performing a special
11 study of the transmission system using a security-
12 constrained production cost simulation tool, which is a
13 standard industry tool to study the detailed hour-by-hour
14 performance of the integrated generation transmission
15 system.

16 So in summary we look forward to this joint
17 agency effort to investigate the requirements of the
18 transmission system that goes for any of us well beyond the
19 33 percent mandate. And encourage the joint agencies to
20 use this new forum to further involve stakeholders to
21 continue the efforts of the CPUC, and Energy Divisions CEC,
22 and the CAISO in studying the impact of the increased
23 renewables on the California transmission system. Thank
24 you.

25 CHAIRMAN WEISENMILLER: Thanks for being here.

1 The Alliance for Desert Preservation?

2 UNIDENTIFIED MALE: There are two of us here.

3 COMMISSIONER DOUGLAS: Well actually one group --
4 one spokesman for each group, so you can both do a joint
5 presentation, but come on up.

6 MR. MILLS: Good morning, Commissioners, thank
7 you. My name is Steve Mills and I'm with the Alliance for
8 Desert Preservation.

9 And I saw that the CEC's Distributed Generation
10 Strategic Plan states that, "We are at the threshold of
11 reinventing the electric power system." And that was a
12 quote. And that means that we've moved away from the
13 centralized utility scale generation model towards
14 distributed generation, including of course rooftop solar.

15 And that the CEC views this transformation as an
16 established fact ought to be adopted as RETI's governing
17 principle. RETI then would become an opportunity to bring
18 creative and proactive thinking to a process that has been
19 pretty reactive in the past.

20 Governor Brown gave a recent inaugural speech,
21 which echoes the CEC. And in speaking of the RPS he said,
22 "I envision a wide range of initiatives: more distributed
23 power, expanded rooftop solar, microgrids, an energy and
24 balance market, battery storage and full integration of
25 information technology."

1 Just looking at the CEC's latest tracking
2 progress report it says there are now, according to my
3 calculations, 5,471 megawatts of small solar distributed
4 generation online, with another 1,000 pending. And that
5 this increase is fueled in part by a 50 percent decline in
6 the cost of solar PV. The CEC report also points to a
7 doubling of cumulative energy efficiency savings between
8 2000 and 2013. And we are only now beginning to tap those
9 capacities.

10 According to UCLA's Luskin Center Report, Los
11 Angeles County alone has over 19,000 megawatts of rooftop
12 solar potential. So in view of this sweeping
13 transformation we would expect that RETI 2.0 will wind up
14 looking much different than RETI 1.0.

15 And we would expect that with five more years of
16 data under its belt, RETI will abandon the previously
17 stated position in its responses to the 2010 FAQs that RETI
18 will not reassess the potential for distributed generation.
19 That we will have to rely almost entirely on utility scale
20 to reach our goals and that with the State well on its way
21 to reaching the 33 percent RPS goal, the energy market and
22 the laws and policies regulating it are not working.

23 I would say that whatever the faults of the
24 current system the fact is, is that the PUC is governed by
25 some hard and fast questions whenever a new transmission

1 facility is proposed about whether it suits public
2 convenience and necessity. When this set of yardsticks,
3 for instance, was applied to Coolwater-Lugo the PUC quite
4 rightly rejected it.

5 We are concerned that RETI would threaten to
6 throw these hard and fast questions out the window. We
7 don't want to wind up like the Rust Belt cities, stuck with
8 the enormous problems when changing technologies and
9 business models have left their industries behind.

10 We would urge that RETI's mission conform with
11 the vision embodied in CEC's own Distributed Generation
12 Strategic Plan and in Governor Brown's inaugural speech.
13 Thank you.

14 CHAIRMAN WEISENMILLER: Thank you.

15 Let's go on to Eric Eisenman.

16 MR. EISENMAN: Good morning, Eric Eisenman with
17 PG&E.

18 What I'm pleased about, what I've really been
19 struck by this morning, is everything I was planning to say
20 I've already heard. So with that in mind I just want to
21 re-emphasize a few points.

22 First the ISO's transmission planning process is
23 very robust. It's improved a lot in recent years. And
24 it's really been very effective in identifying needed
25 transmission. So PG&E looks for this initiative to really

1 inform the ISO's transmission planning process over the
2 next couple years.

3 Next, starting with Commissioner Peterman we've
4 heard a number of times today about optimizing transmission
5 that we already have. That's really critical. We heard
6 some comments about the San Joaquin Valley and available
7 transmission there. That needs to be looked at very, very
8 carefully.

9 We've also heard a number of times today about
10 interregional planning, looking at resources out of the
11 state. That needs to be included. I am encouraged to hear
12 Mr. Florio say he'll bring it up with the other states.

13 And then last we've also heard, especially from
14 Mr. Tippin, about the need to consider cost and rate
15 impacts. Transmission is not a free lunch, so that ties
16 back to considering how we optimize existing transmission.

17 So all of us need to consider the cost in rate
18 impacts, thank you.

19 CHAIRMAN WEISENMILLER: Thank you.

20 Nancy Rader.

21 MS. RADER: Good morning, everyone. Nancy Rader,
22 with the California Wind Energy Association. CalWEA was
23 extensively involved in RETI 1.0 and so we wanted to share
24 our perspective as you launch RETI 2.0.

25 RETI 1.0 resulted in three really important

1 lessons learned that the state has really taken to heart.

2 First the process ultimately recognized the
3 importance of "least regrets" transmission planning, which
4 is a methodology that identifies backbone transmission
5 upgrades that are common to any reasonably possible
6 renewable energy future. This type of planning does not
7 prejudice the market or land use permitting processes and
8 minimizes the possibility of stranded transmission assets.

9 So the CAISO has carried forward this concept as
10 part of its policy based transmission planning authority
11 that was granted by the FERC in 2010.

12 And the PUC's Energy Division is now running a
13 stakeholder process to develop a number of reasonably
14 possible renewable energy futures that will serve as the
15 basis for a least regrets system and transmission planning.
16 These futures are being informed by modeling capabilities
17 and data that far exceed what we had in RETI 1.0.

18 Second, it was widely recognized that it was not
19 possible with any credibility to screen resources on
20 environmental grounds. This aspect of RETI turned out to
21 be a largely arbitrary exercise outside of appropriate
22 jurisdictional channels. It turned out not to be a
23 problem, because of the least regrets nature of the RETI
24 transmission plan, which meant that it was robust under any
25 pattern of development and really wasn't affected by the

1 environmental scoring.

2 It did lead to the launch of the DRECP. While
3 unfortunately the DRECP is fast leading to wind energy
4 prohibitions in most of the State's best remaining wind
5 resource areas, we will be able to use it to plan the
6 renewable energy scenarios, because it will be a definitive
7 land use plan. And we can use it as an input to this
8 process.

9 Third, it became apparent that the RETI
10 conceptual transmission plan as solid as it was wasn't
11 going to be acted upon in 2009. And it has not been acted
12 upon since. And by the way the Tehachapi and Sunrise Plans
13 were in base case for RETI, because they were already well
14 underway. The RETI conceptual plan went beyond these
15 upgrades. A big part of the problem was that RETI 1.0 was
16 not rooted in the agency processes that result in
17 infrastructure decisions being made.

18 This procedural problem has been addressed in the
19 better-aligned processes that are now underway at the PUC
20 and the CAISO, which we believe will lead to the decisions
21 that we need to invest in the backbone transmission
22 upgrades that will be critically important in preventing
23 significant transmission-related curtailments as we
24 approach and surpass 33 percent renewables.

25 As Mr. Casey noted, these processes have also

1 recognized that it's not necessarily cost effective to
2 build out the transmission system to the degree that you'd
3 need to, to obtain a RA value from all renewables. Rather
4 it may be more cost effective for other types of resources
5 to provide RA and to focus transmission planning as it
6 relates to renewables on avoiding significant curtailments.

7 The PUC and the CAISO are now in the process of
8 conducting a special study to investigate this.

9 So we've made a great deal of progress as a
10 result of what we've learned in RETI 1.0. And RETI 2.0
11 should recognize this process and seek to complement the
12 efforts that are already well under way. And I appreciated
13 the remarks of Commissioner Peterman along these lines.

14 CHAIRMAN WEISENMILLER: Okay Nancy, could you
15 wrap it up?

16 MS. RADER: I will.

17 CHAIRMAN WEISENMILLER: Written comments.

18 MS. RADER: I will. RETI 2.0 should be scoped to
19 ensure that it does not distract or take away resources
20 from these processes or create a competing forum for
21 debate.

22 Not only would this create enormous resource
23 burden on stakeholders, but it could actually delay
24 progress in building the transmission upgrades that we will
25 need to avoid curtailment. Thank you.

1 CHAIRMAN WEISENMILLER: Thanks. Thanks for being
2 here.

3 Jason Smith?

4 MR. SMITH: Good afternoon Chairman Weisenmiller,
5 President Picker, Commissioners, Mr. Casey, Mr. Hunting.
6 My name is Jason Smith, President of TransCanyon. Good to
7 be here with all of you today.

8 My intent today is to introduce you to
9 TransCanyon as a part of this process and also to express
10 our interest in participating in RETI going forward.
11 TransCanyon, as a business there's three things I'd like
12 you to know about TransCanyon.

13 One is we're an independent transmission
14 developer. We are exclusively focused on the Western
15 United States, the 11 states that comprise WECC, which I
16 think differentiates us with some of the other players in
17 the market.

18 Two, our business model is focused on all phases
19 of transmission from developing, building, owning,
20 constructing and operating for the long term; these key
21 transmission elements that will be a part of our energy
22 infrastructure for many decades to come. So we have a very
23 long-term focus on our business and our presence here in
24 the west.

25 And third we've been very involved in the Cali

1 ISO's transmission planning process over the last five
2 years, with Mr. Casey and Mr. Millar. And have also been
3 involved in a leadership role in WestConnect through
4 Mr. Bob Smith, who's here with me today as well through
5 both his prior role in coordinating Order 1000, but also
6 current role on the Planning Management Committee.

7 So that's TransCanyon as a business. TransCanyon
8 as a company -- two things I'd like to stress there. We
9 are a joint venture, which I think actually brings the best
10 of two things to bear into this process. One is we are an
11 independent player, which I think gives us the creativity
12 to come and help think this process, help think through
13 creative solutions to the problems that we're facing
14 collectively as an independent player.

15 But I think importantly we also have the support
16 and resources of our parent companies and our affiliates
17 and sister companies like PacifiCorp and Arizona Public
18 Service company that have been long-term stewards of energy
19 infrastructure and the environment in the Western United
20 States for over the last 125 years. So we have that in our
21 DNA to bring to the process as well.

22 So with that, I'd like to express today that
23 TransCanyon is very interested in being involved in the
24 RETI process, either in a leadership role or in any of the
25 working groups that are being formed as may be appropriate.

1 We look forward to working with all of you and
2 the stakeholders that are present here today and appreciate
3 the opportunity to comment. Thank you.

4 CHAIRMAN WEISENMILLER: Great, thank you.

5 Actually the -- Sarah Quinn, National Park
6 Services. Sorry, I didn't know you were here on the phone.

7 MS. QUINN: Hello?

8 CHAIRMAN WEISENMILLER: Sure. Yes, please go
9 ahead.

10 MS. QUINN: Okay. I just wanted to weigh in on
11 our position with regards to RETI. We've been happy to
12 participate with a number of the agencies and stakeholders
13 that are part of RETI for since [sic] the past couple of
14 years with regards to the renewable energy and transmission
15 planning in the area.

16 And we are in a unique position. We're the
17 holder of a large amount of conservation land in the
18 planning area.

19 And our agency of course, as many of you know, is
20 focused very much on resource protection and that includes
21 biological and cultural resources. It also includes areas
22 of historical significance, things that are eligible for
23 listing on the National Register, things like national
24 historic landmarks and national natural landmarks as well
25 as national (indiscernible) trails in which we may not own

1 the underlying lands, but we do have management
2 responsibility. And we hold all these in trust on behalf of
3 the American public.

4 And the reason why we would be participants in
5 the process is to make sure that those issues of the trust
6 of the American public are kept in mind in the planning
7 process.

8 And also because there may be instances where
9 there may be a need to cross some of these or cross-meter
10 some of these lands that are managed by the Park Service.
11 We do have permitted legal authority to permit right-of-way
12 for lesser transmission lines when there is no practical
13 alternative to routing other places. And so where the
14 discussions need to take place and they need to take place
15 early and often to make sure that we're protecting as many
16 resources as possible, while still facilitating this
17 necessary transmission development.

18 Of course, the Park Services is a huge supporter
19 of this Administration's agenda with regards to all of the
20 above energy strategy and that of the State of California
21 with their renewable portfolio standards.

22 And so we do want to be (indiscernible)
23 participants to facilitate what we can in making that go
24 forth, while also making sure that we are consistent with
25 our own mandates.

1 And that's all I have. Thank you.

2 CHAIRMAN WEISENMILLER: Thank you.

3 Peter Weiner?

4 MR. WEINER: Thank you, President Picker,
5 Chairman Weisenmiller and the Panel.

6 Like many other participants what I've heard here
7 today is a lot of what I would have wanted to say. And I
8 support basically everything that's been said by all of
9 you. It is a great triumph that we have this kind of
10 coordination among the agencies. Ten years ago it would
11 have probably been unthinkable.

12 I would like to emphasize as the gentleman from
13 PG&E did, who agreed with you, a few things. One, as I
14 think President Picker said first -- but all of you have
15 really echoed -- the importance of a stakeholder process.
16 And I just want to be nuts-and-bolts about it for a minute.
17 I think that we have had such great stakeholder processes.
18 We had a very good one with RETI 1.0.

19 Earlier than that or maybe a similar time, I
20 can't remember the timing exactly, we had a wonderful
21 stakeholder process involved with the CEC and then the
22 Department of Fish and Game with regard to wind guidelines.

23 We have had a very good stakeholder process I
24 think with the San Joaquin Valley Initiative.

25 In contrast I think the stakeholder process with

1 the DRECP was somewhat more limited and much more internal
2 to the agencies. And I think it didn't work as well, as a
3 result. And I think some of the outcomes of DRECP were
4 more controversial as a result.

5 So I would urge you that stakeholder processes
6 are really messy, they are really time consuming as
7 democracy often is, but it's really important in terms of
8 getting a good result.

9 The other thing that I'd just like to emphasize
10 is that transmission planning and this -- and just to echo
11 Nancy Rader a little bit in terms of least regrets
12 transmission planning -- I think it has to be really
13 robust.

14 And every once in awhile at least some of the
15 agencies, I think, are focused on the near term and least
16 cost, rather than best fit and rather than planning for the
17 future. The transmission truly is the backbone and if you
18 build it, it allows people to come. So I think that we
19 need to plan robustly and not in for the short term.

20 Finally, just to emphasize resource diversity
21 I've heard a lot of mention of various types of technology
22 -- all of them fit. I also want to emphasize the need for
23 geothermal, for wind, for solar and also for renewable
24 storage peakers as an ability to solve some of our
25 problems.

1 Thank you very much.

2 CHAIRMAN WEISENMILLER: Thank you.

3 V. John White.

4 MR. WHITE: Good morning, nice to see you all
5 together. It makes it more energy efficiency for the
6 public, so thank you.

7 I'm John White with CEERT. And we had an
8 opportunity to play a role in the direction of the
9 stakeholder process in RETI 1.0. And so I have a couple of
10 process suggestions and then I have a couple of more policy
11 rant.

12 First of all, I think as has been said, the role
13 of the stakeholder process in the Working Group was very
14 important. The agencies were not micromanaged in the
15 process, they were supervising and guiding. But the
16 Working Group was where a lot of the work was done. It's
17 going to need to stay small and have people that are
18 constructive and willing to compromise. That's not always
19 easy to find.

20 We're also going to have to involve the out-of-
21 state community in ways we didn't have to before, so I
22 think that's an important thing.

23 I also think you will need in addition to
24 somebody to manage the stakeholder process that's got deaf
25 to diplomatic skills -- probably will also need technical

1 support. Black & Veatch played a very important role last
2 time and helped inform the process and keep it up to date.

3 So with those suggestions and I'll be happy to
4 follow up with your staff and more detail about some of
5 those lessons learned. And Dave Olsen from the CalISO
6 Board and Rich Ferguson were very involved and can offer
7 some specific suggestions.

8 On the policy side I think one of the things
9 that's really important that's different now is the role of
10 greenhouse gas emissions as the rationale on the driving
11 force. Renewables are a means to the end, they're not an
12 end in themselves. We're going to have a hard renewable
13 target of 50 percent. But the metric that we're going to
14 be measuring our progress is, as President Picker said --
15 is what we focus on is what we're going to get.

16 And so this means that I would have some caution
17 about relying so much on the existing processes, because
18 those processes -- RPS Calculator and so forth -- while
19 getting better and having much improvements are really a
20 backward looking rather than forward looking. And we
21 haven't really integrated greenhouse gas calculations yet
22 and we're going to need to.

23 And it's going to mean a different kind of
24 procurement, more strategic procurement, where we're
25 thinking about reliability. Using renewables for

1 reliability and using them to get to the greenhouse gas
2 goals, which means we will have to choose them and procure
3 them differently with their attributes for grid reliability
4 and greenhouse gases in mind. And we have a lot of work to
5 do in that area.

6 So with those comments I wish you well and look
7 forward to working with you.

8 CHAIRMAN WEISENMILLER: Thank you.

9 Kim Delfino?

10 MS. DELFINO: Good afternoon, we are now past
11 into the noon hour. And President Picker and Chairman
12 Weisenmiller and the rest of the panel -- I won't go
13 through the litany of names -- but I'm very happy to see
14 this assembly of all the agencies that work on these
15 issues.

16 And I'm Kim Delfino. I'm with Defenders of
17 Wildlife. I'm the California Program Director and have a
18 lot of familiarity with these issues. Defenders actually
19 started working on the RETI 1.0 process back in 2008. We
20 were a little late in coming in, it started in 2007. And
21 we've been very involved in a number of the processes that
22 have been listed up on the slides.

23 I think we're very interested in this process and
24 hopeful that it will build upon and expand the lessons
25 learned and in trying to plan our renewable energy and low

1 carbon, our greenhouse future in a way that -- as Deputy
2 Director Hunting said from the Department of Fish and
3 Wildlife -- in a way that also achieves benefits for our
4 species and habitats. Because we have learned in watching
5 some projects and lines roll out that there are ways that
6 we can site these projects that can incite conflict or can
7 incite collaboration. And I think RETI can be constructed
8 in such a way where we can be going more with the latter
9 than the former.

10 A couple of observations, because a lot of things
11 that have been said here I really do agree with.

12 First of all the goals and assumptions are
13 absolutely critical to this process. And need to be
14 established early and clearly and with a great deal of
15 input I think from stakeholders. I'm not going to go into
16 any more detail on that. I think Barb Boyle with Sierra
17 Club is going to get up here and I think she'll have a lot
18 to say about that.

19 On the issue about the process, the governance
20 and the stakeholder process, I think it's really important
21 to create a process in a way that will provide trust in the
22 outputs. And that means I think you have to be very
23 careful in terms in making sure that it is an open and
24 transparent process. And that includes all viewpoints and
25 expertise levels.

1 One of the issues I think with the original RETI
2 process was sort of the way that it was structured with the
3 Governing Board and the Stakeholder Steering Committee and
4 then the work groups and how the decisions and the voting
5 sort of went up and down the chain. And I think it caused
6 some distrust in terms of outputs and I think there's ways
7 to avoid that. And I think we've learned a lot through the
8 other processes that come forward since RETI 1.0.

9 On the environmental data and modeling that is
10 really important. This is a way to be able to put
11 information into the process, so we can create these low
12 conflict decisions. I think we're obviously very
13 interested in participating in that process, I think it
14 should be open. I hope a lot of this is going to be put up
15 on the database and website, which I have to say is
16 probably one of the best things that came out of the DRECP
17 process.

18 And I would also say that while we have created a
19 lot of information out there. There are still data gaps
20 and I think it's important to identify those early. And
21 think about carefully how we're going to address those
22 issues, because to simply sort of say that there's a data
23 gap and ignore it and move on I think invites potential
24 problems later on down the road.

25 Finally, really quickly local government really

1 does have an important role to play here. I think they
2 have to be brought in early into the process. They have
3 very definite views on how land use should go in their
4 counties. And they have the authority to permit projects.

5 And finally I appreciate the comments from the
6 representative from the Imperial Irrigation District.
7 Defenders has worked for many years, more than a decade,
8 down in the Imperial Valley. There is great renewable
9 energy potential down there.

10 There's also an opportunity here to maybe plan
11 those types of projects in a way that would also have co-
12 benefits for the Salton Sea and the State's
13 responsibilities for addressing the impacts of a receding
14 Salton Sea. So hopefully there will be a way to integrate
15 those efforts together in the planning process.

16 And again just really appreciate the fact that
17 you set this meeting up early and are taking input early
18 and look forward to the process as it rolls out. Thank
19 you.

20 CHAIRMAN WEISENMILLER: Thank you.

21 Barbara Boyle.

22 MS. BOYLE: Barbara Boyle, representing Sierra
23 Club. Thank you all. Panel members this has been a really
24 informative and helpful workshop.

25 I've been involved in these issues since the fast

1 track days. And I really appreciate the emphasis today on
2 how much we've learned through these processes and the
3 emphasis on natural resource protection as we're moving
4 forward and how that is a co-equal goal with actually
5 building the renewable energy.

6 It's very important that we figure out how to
7 integrate high levels of renewable energy into California.
8 And how we do that by balancing renewables with other
9 renewables, and so all those kinds of issues as they've
10 been articulated this morning are really important.

11 I want to focus a little bit on what our goal is
12 and talk a little bit about the renewable energy goal as it
13 was articulated for the DRECP in terms of megawatts.

14 Looking in the DRECP the California Energy
15 Commission did an Energy Calculator and determined that
16 approximately 20,000 megawatts of new renewable energy
17 would be needed from the desert region. This reflected
18 about 100 percent of the State's solar thermal that would
19 be developed, 70 percent of the PV, about half the wind and
20 most of the geothermal. Of that, approximately 11,000 is
21 already underway and online.

22 And so what we have is an increment left. And
23 this is to meet the 2040 goal -- and so what we have as an
24 increment left might be 9,000 megawatts. Now, this might
25 not address all the integration needs that we have, but my

1 point here is to say let's not overbuild, let's clearly
2 identify what our renewable energy goal is from the get-go.
3 And in doing so in corporate all the new policy initiatives
4 such as the 50 percent energy efficiency goal and the other
5 -- and look at the existing rate of DG and how it is
6 increasing and the prices are continuing to drop.

7 Let's make sure that as we look at what our goal
8 is in this RETI 2.0 process we have a clear sense of how
9 much of the increment needs to come from large scale, and
10 how much can come from other resources and incorporating
11 new technology such as storage.

12 Looking at other states and how they are
13 involved, certainly we may need to import renewables from
14 other locations. But it's also important to keep in mind
15 what the impacts are in those locations.

16 And just on process I'd like to make one final
17 recommendation. One of the things that became clear in
18 some of the DRECP workshops was that there really could
19 have been better outreach to minority and low-income
20 communities and to environmental justice communities and
21 groups. And I would recommend that in this process you
22 take that as a very serious goal, because these groups and
23 organizations have a lot of stake in access to things like
24 distributed generation and energy efficiency.

25 And they also very concerned about clean air in

1 their communities. And as we move off fossil fuels they
2 are the ones who stand to gain the most. Thank you so
3 much.

4 CHAIRMAN WEISENMILLER: Thank you.

5 Erica Brand.

6 MS. BRAND: Good afternoon. Thank you for
7 hosting today's workshop. I have found it incredibly
8 helpful and informative.

9 My name is Erica Brand and I'm the California
10 Energy Program Director at The Nature Conservancy. And our
11 work is focused on using science to find solutions to
12 achieve multiple state policy goals, greenhouse gas
13 emission reduction, clean energy and protection of natural
14 and working lands and biodiversity.

15 The Nature Conservancy has recently modeled a
16 number of 2030 renewable energy scenarios within the Cal
17 ISO Balancing Authority Area. And the data indicate that
18 it's possible to achieve a 50 percent portfolio with a low
19 impact to natural and working lands at a low incremental
20 cost over the base case.

21 While the data indicate this future is possible
22 it will take planning to make this vision a reality. At
23 this early stage of RETI 2.0 I offer a few thoughts on the
24 planning process.

25 So the first is that having clear goals for the

1 process is essential. And I appreciate that that's been
2 brought up several times today. Planning for California's
3 energy future requires integrating multiple policies. If
4 you lack a goal there's a risk of discounting it.

5 So I'd like to say that protection of nature,
6 specifically natural and working lands and biodiversity
7 should be an explicit goal in RETI 2.0 in long-term energy
8 planning.

9 The second is to be smart from the start.
10 Planning to reduce siting conflicts benefits everyone.
11 We're glad to hear that RETI 2.0 will pull in the efforts
12 that are underway in the San Joaquin Valley and the
13 California deserts.

14 The third is scenario-based analysis. That
15 includes land use and environmental considerations. These
16 tools provide data that make better electricity policy. We
17 appreciate that the agencies are focused on analytical
18 tools and how they can be integrated into RETI 2.0 and
19 long-term planning.

20 Fourth, we appreciate the emphasis on an open
21 dialogue with stakeholders and the need for a stakeholder
22 process, it's essential.

23 Thank you for the opportunity to share comments.
24 I look forward to providing more in written comments. And
25 definitely look forward to the opportunity to work with you

1 on planning for California's energy future. Thanks.

2 CHAIRMAN WEISENMILLER: Thank you.

3 Rachel Gold?

4 MS. GOLD: Hi. Good afternoon. Thank you, Chair
5 Weisenmiller and President Picker. I'm Rachel Gold with
6 the Large-scale Solar Association. And appreciate the
7 opportunity to make comments today.

8 LSA is very interested in collaborating and
9 engaging in the RETI 2.0 effort. And we agree with others
10 that we will need to think carefully about how to plan for
11 our future renewable energy needs.

12 I would be remiss if I didn't start off by
13 following up on a number of comments that were made this
14 morning about the success we've seen with the solar
15 industry. In the last several years we have had huge
16 success in bringing on thousands of megawatts of solar
17 energy in the state. And we could not have gotten there
18 without the efforts of all the agencies, counties and
19 stakeholders. We're now ready to build on that success
20 with all of you.

21 As we have matured and refined our approaches up
22 to renewables development, I wanted to echo Mr. Casey's
23 statement that the industry is ready to help build on all
24 the capabilities that solar and other renewables bring to
25 support Grid reliability and we hope that they will be

1 accounted for in this effort.

2 Part of this will be recognizing that we have
3 some inefficiencies in our current systems and markets.
4 And these include that the level of curtailments that we
5 see in it that are projected are tied both to available
6 transmission and to the use and participation of all
7 resources in the grid.

8 I also had a couple of other comments about the
9 scope of RETI. I just want to echo the comments we've
10 heard so far about ensuring a clear scope to the process.
11 We were really happy, I was really happy, to hear about the
12 continued work on process alignment that's ongoing. And I
13 hope that we can build on that. And as Nancy said not
14 create a duplicative process, but a process that really
15 identifies those gaps and creates even more value going
16 forward.

17 It will be helpful to that extent to coordinate
18 with those current CPUC and other stakeholder efforts,
19 including specifically with the RPS Calculator.

20 And we would appreciate a further discussion
21 about the regional scope of this effort and how that may be
22 included. And we would also like to look at, as part of
23 this scope, whether or not we're going to incorporate any
24 needs of an aging infrastructure. And how we might
25 leverage any more recent additions than what we have

1 already in place.

2 And finally, it's clear that if we have
3 consistent approaches for attracting investment this
4 industry can be there to meet those goals. And we look
5 forward to collaborating with all of you to do so. Thank
6 you.

7 CHAIRMAN WEISENMILLER: Thank you.

8 So anyone else in the room? Then let's turn to
9 the line, the call-in line.

10 First, are there any public agencies on the call-
11 in line that want to speak at this stage?

12 Okay, apparently not. So let's go to Paul
13 Staples.

14 MR. STAPLES: Can you hear me?

15 CHAIRMAN WEISENMILLER: Yes, we can.

16 MR. STAPLES: Okay. Thank you today for giving
17 me this opportunity. My name is Paul Staples. I'm a
18 Chairman and CEO of HyGen Industries.

19 First of all I want to apologize for not getting
20 in sooner, because I was in phone conferences all this
21 morning and I just didn't make the rest of the meeting. I
22 just logged on a few minutes ago and so I apologize for not
23 making it. And so if these comments are repetitive please
24 forgive me, okay?

25 As far as our long term it's very important.

1 We've got to plan for the long term, but there are some
2 short-term things that we can do to help expedite this
3 thing.

4 First of all reduce the T and D for a 100 percent
5 renewable, non-carbon, energy uses. Particularly for
6 fueling vehicles, electric vehicles and fuel cell electric
7 vehicles, at local service stations and local sites where
8 this fueling and this charging will take place. And I
9 think it's very important that we do that.

10 We also need to open up direct access more --
11 more direct access contracts with people who are going to
12 be doing commercial development -- and also commit for
13 particularly for transportation uses. Because this is
14 important with the build-out that the CEC is right now
15 doing with fuel cell electric vehicles and other
16 alternative fuel transportation as well and energy type
17 uses. So I think it's really important to do that.

18 One hundred percent efficiency as someone had
19 indicated -- not a hundred percent -- a hundred percent
20 renewable -- as it is important and efficiency is
21 important. But I would say more important even than that,
22 as much as I believe in that, is the elimination of carbon
23 fuels. And if you can do that, I think that that could
24 take the place of an even more efficient system if you're
25 not doing that.

1 So that's the main thing -- points that I wanted
2 to make. The most important thing is to try to get to a
3 zero carbon footprint. It's possible with what we're doing
4 with our fueling systems that we're putting in at local gas
5 stations throughout the State, along with many others that
6 are doing that.

7 And if that becomes the way then renewable ways
8 of doing this will become the rule as opposed to the
9 exception. And that's pretty much all I wanted to say.
10 Thank you.

11 CHAIRMAN WEISENMILLER: Okay. Thank you.

12 Anyone else on the line?

13 UNIDENTIFIED FEMALE: No.

14 CHAIRMAN WEISENMILLER: No?

15 UNIDENTIFIED FEMALE: (Indiscernible) callers?

16 CHAIRMAN WEISENMILLER: Well, okay. But again
17 what I'm trying to do is first identify if there's anyone
18 on that wants to speak, any public agency in particular,
19 otherwise.

20 So Al, do you want to repeat when written
21 comments are due?

22 MR. ALVARADO: Sure. Written comments are due on
23 September 24th and you can use our Listserv, our docket's
24 filing system that we have online. And you can find that
25 information on the -- if you go back to my slides I can

1 pull up -- has the URL in terms of where to file. It's
2 September the 24th.

3 CHAIRMAN WEISENMILLER: Okay. Great.

4 This meeting is adjourned.

5 (Whereupon, at 12:35 p.m., the workshop
6 was adjourned)

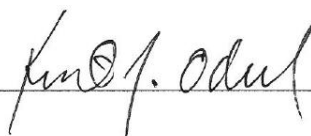
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IN WITNESS WHEREOF, I have hereunto set my hand this 2nd day of October, 2015.



Kent Odell
CER**00548

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