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BEFORE THE
CALIFORNIA ENERGY COMMISSION

In the matter of,)
) Docket No. 17-IEPR-08
)
2017 Integrated Energy Policy)
Report (2017 IEPR))

**JOINT AGENCY WORKSHOP ON SENATE BILL 350
LOW-INCOME BARRIERS STUDY IMPLEMENTATION**

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

TUESDAY, AUGUST 1, 2017

10:00 A.M.

Reported By:
Peter Petty

APPEARANCES

Commissioners

Robert B. Weisenmiller, Chair

Karen Douglas, Commissioner

Andrew McAllister, Commissioner

Janea Scott, Commissioner

Emilio Camacho, Chief of Staff to Commissioner David
Hochschild

CEC Staff Present

Heather Raitt, Integrated Energy Policy Report (IEPR)
Program Manager

Michael Sokol, SB 350/AB 802 Implementation Coordinator

Joint Agency Participants

Martha Guzman Aceves, Commissioner, California Public
Utilities Commission (CPUC)

Ashley Dunn, California Air Resources Board, (CARB, ARB)

Presenters

David Fogt, Contractors State License Board

PanelistsPanel 1

Melicia Charles, Moderator, CPUC

Allen Fernandez Smith, Pacific Gas & Electric (PG&E)

Aaron Renfro, Southern California Edison (SCE)

Erin Palermo, Southern California Gas Co. (SoCal Gas)

Timothy Tutt, Sacramento Municipal Utility District
(SMUD)

Jamie Asbury, Imperial Irrigation District (IID)

Beckie Menten, Marin Clean Energy (MCE)

CALIFORNIA REPORTING, LLC

229 Napa St., Rodeo, California 94572 (510) 313-0610

APPEARANCES (CONT.)

Panel 2

Tyson Eckerle, Moderator, Governor's Office of Business and Economic Development

Tanya Little, Department of General Services (DGS)

Stephanie Green, CPUC

Simeon Gant, Green Tech Academy

Stephanie Chen, Greenlining Institute

Angelica Tellechea, Brownstone

Panel 3

Erik Stokes, Moderator, CEC

Catalina Lamadrid, Inova Energy Group (Via WebEx)

Ismael Herrera, BlueTechValley Innovation Cluster

Ed Lopez, Groundwork San Diego-Chollas Creek

Jon Harding, Charge Bliss

Panel 4

Robert Ridgely, Moderator, CEC

Anne Arquit Niederberger, Enervee

Lisa Schmidt, Home Energy Analytics

Joy Pixley, UC Irvine California Plug Load Research Center

Marti Frank, Efficiency for Everyone (Via WebEx)

Also Present

Mayda Bandy, San Diego Gas & Electric (SDG&E)

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P R O C E E D I N G S

1
2 AUGUST 1, 2017

10:04 A.M.

3 MS. RAITT: So, folks can go ahead and take
4 seats, we're going to get started, please.

5 So, welcome to today's Joint Agency Workshop on
6 Senate Bill 350 Low-Income Barriers Study
7 Implementation. I'm Heather Raitt. I'm the Program
8 Manager for the IEPR.

9 Just a few housekeeping items, restrooms are in
10 the atrium, at the doors to the left of the hearing
11 room.

12 If there's an emergency, please follow staff to
13 evacuate the building to Roosevelt Park, which is across
14 the street, diagonal to the building.

15 Please be aware that today's workshop is being
16 broadcast over our WebEx conferencing system. It's also
17 being recorded. And we'll post an audio recording in
18 about a week and a written transcript in about a month.

19 We do have a very full agenda. I'd like to
20 thank our many speakers for being here today and ask
21 that you do try to stick to your time limits.

22 At the end of the day we'll have an opportunity
23 for public comments, and we'll be limiting those to
24 three minutes per person. You can go ahead and fill out
25 a blue card, and give it to me, and let me know if you'd

1 like to make comments at the end of the day.

2 We'll also have an opportunity for WebEx and the
3 folks on the phone to make comments. You can just tell
4 our WebEx coordinator, using the chat function that
5 you'd like to make comments. And we'll open up the
6 phone lines at the end.

7 Materials for the meeting are at the entrance to
8 the hearing room and available on our website. Written
9 comments are welcome and due on August 15th.

10 And with that, I'll turn it over to the
11 Commissioners for opening remarks. Thanks.

12 CHAIR WEISENMILLER: Good morning. I want to
13 thank everyone for their participation today. This is
14 our second workshop following up on last year's effort
15 on low-income barriers. We wanted to really make sure
16 we had the time to dive into some of these in-depth
17 following up. And so, appreciate you being here.

18 This is obviously a high priority for us and
19 again, looking forward to a good workshop.

20 Janea?

21 COMMISSIONER SCOTT: Good morning, everyone and
22 welcome. Thank you so much for being here with us
23 today. As you know, this is -- or, I hope that you
24 know, this is a second in a series of two, but
25 potentially more workshops, where we will be digging

1 into the barriers that the Energy Commission identified
2 to low-income communities being involved in renewable
3 energy and energy efficiency.

4 This was a report that we issued at the end of
5 the year last year. It included 12 recommendations.
6 Our first workshop on this, which was in May, we talked
7 through some of the solutions to the barriers and we are
8 continuing that discussion today.

9 So, I'm very much looking forward to it. Thank
10 you, everyone, for being here.

11 COMMISSIONER GUZMAN ACEVES: Good morning,
12 everybody. This is Martha Guzman Aceves from the
13 California Public Utilities Commission. I also just
14 wanted to share that a few weeks ago, at the Public
15 Utilities Commission we did have an en bank, as well, on
16 environmental justice.

17 I know a lot of you participated. I definitely
18 want to thank the CEC staff who was there and Alana did
19 a great job on presenting the Barriers Report. And we
20 talked about how to incorporate environmental justice in
21 our world and in specific proceedings.

22 So, I know a lot of the recommendations that
23 have been outlined in this study are a part of that.
24 And I just want to encourage everyone about continuing
25 to participate in our processes, as well.

1 I'm really looking forward to taking some of
2 these recommendations and making something happen with
3 them. Thank you.

4 COMMISSIONER MCALLISTER: So, this is Andrew
5 McAllister. I'm the lead on energy efficiency. And I
6 think all five Commissioners in the Energy Commission
7 participated, really, in the development of the Barriers
8 Report. You know, we all have a special interest in
9 making sure that we do find ways to incorporate
10 disadvantaged communities, low-income populations, and
11 just the full diversity of the State into all of our
12 programs. And certainly know that that applies over at
13 the CPUC, as well, and we're all committed to working
14 together on that.

15 There are, you know, many barriers. I mean I
16 think the 12 recommendations are certainly valid, but
17 they all need to be deepened in ways that operationalize
18 the solutions. And so, it's not an easy area.

19 And I think, certainly politically, and just
20 because it's the right thing to do there is ever more
21 attention on making absolutely sure that as we aim for
22 the very aggressive goals, and the sort of leadership
23 position that California has, that they express,
24 figuring out to really bring along our entire population
25 and make sure that it participates in this economy that

1 we're building. Because there's really no way that we
2 can declare success in 2030, 2040, 2050 if we haven't
3 done that.

4 And I think it's self-evident, really, but I
5 think there's been too little effort across the years.
6 Even though there has been a lot of effort and you are
7 all really core to that effort, I think resources and
8 sort of ongoing attention at the highest policy levels
9 is really what's needed to get us there.

10 So, we're committed to this and the Barriers
11 report is a big step in that direction. But it's going
12 to take a lot of work, together, for all of us. So, I'm
13 happy to have this second workshop and, you know,
14 continue down this path.

15 COMMISSIONER DOUGLAS: You know, I'll just add,
16 briefly, I strongly support the comments made by all of
17 my colleagues here. And, you know, as Commissioner
18 McAllister said, all of the Commissioners at the Energy
19 Commission were very involved in the Barriers Report,
20 and participated in workshops, and reviewed it, and
21 really thought about the issues.

22 And there's no way that we can be successful
23 without reaching out and ensuring that disadvantaged
24 communities around the State enjoy the benefits of clean
25 energy in the clean energy economy.

1 And so, it's really essential that we find ways
2 to do that. And we take this Barriers Report and we
3 study it, and we sort of think about how we frame it
4 into an opportunities report, where we really take the
5 step of working with, you know, the advocates. Working
6 across different constituencies, and really
7 understanding how to develop and target programs that
8 will be successful in many of the communities where
9 these programs have had a harder time getting
10 established or, really, have had a harder time getting
11 off the ground.

12 And so, we need to see really strong results
13 across the State. And we particularly need to focus on
14 understanding how to bring this to scale in
15 disadvantaged communities. So, we're delighted to be
16 here today.

17 MR. CAMACHO: Emilio Camacho, here on behalf of
18 Commissioner Hochschild, who just wanted me to relay
19 that he remains committed and looks forward to
20 continuing to work with all of our colleagues on the
21 issues that are important to disadvantaged communities
22 and low-income communities.

23 MS. RAITT: Okay, thank you. So, we have two
24 presentations to give us an update on the Barrier Study
25 Implementation Activities. First is Michael Sokol from

1 the California Energy Commission.

2 MR. SOKOL: All right. Good morning, everyone,
3 and thank you for joining us today. I'm Michael Sokol,
4 with the Energy Commission. And I'm the SB 350 and AB
5 802 Implementation Coordinator, which includes a number
6 of activities, but one of those being implementation of
7 the Low-Income Barrier Study.

8 And so, I'm just going to provide a quick update
9 on some of the key activities and items that are
10 currently underway, not only here at the Commission, but
11 with the other agencies that we've been coordinating
12 with, very closely, to implement the recommendations
13 from the study.

14 So, just to put things in perspective, it's sort
15 of a pretty lengthy continuum of different efforts to
16 target benefits for disadvantaged communities. But SB
17 350 really underscored the importance of making sure
18 that those benefits were a key priority throughout a
19 number of programs, administered not only here at the
20 Energy Commission, but at the CPUC, and at the Air
21 Resources Board, as well.

22 And so, you know, the story begins well before
23 this slide here, but this just shows a little bit of a
24 timeline. Starting with the Energy Commission, we
25 published the study required in SB 350, last December.

1 And that sort of kicked off the implementation phase of
2 this whole effort. So, there were some key
3 recommendations in that study and we heard about some of
4 those on the May 16th workshop, earlier this year.

5 We're going to hear some conversation about
6 another subset of those today, and kind of follow up on
7 some of the discussion items from the May 16th workshop.

8 Following up the Barriers Study Part A being
9 published here at the Energy Commission, the Air
10 Resources Board published Part B of the study, which was
11 focused on low-income transportation options. And that
12 was in April of this year was the draft guidance
13 document was released.

14 And so since then, in line with the
15 recommendations from our studies we've been working very
16 closely to coordinate on how best to implement these
17 recommendations, not only with the agencies that are
18 represented here today, but with many others that are
19 impacted by the recommendations, and play a supporting
20 role.

21 So, the first recommendation from the Energy
22 Commission study was this task force. And we heard last
23 workshop about some of the details of this task force.
24 But we continue to coordinate across a number of
25 agencies and make sure that everyone is on the same page

1 on how best to proceed with implementation.

2 And we had the workshop on May 16th, like I
3 mentioned. And I'm going to highlight a couple of the
4 key takeaways as I move through the slides here.

5 You heard about the Public Utilities Commission
6 had an en banc on disadvantaged communities just earlier
7 last month, which is very relevant for today's
8 conversation. And we'll hear a couple of the key points
9 from that later today.

10 And then today is the second workshop here on
11 barriers implementation. And again, this is really just
12 another point along this big trajectory of how to bring
13 these priorities to the existing programs and future
14 programs. And we're looking forward to teeing up some
15 very good conversations that are, hopefully, going to
16 continue to yield benefits as we move forward.

17 So, as I mentioned, the task force, we're
18 continuing to meet on that and we have an upcoming
19 meeting. Actually, tomorrow will be our second meeting
20 here.

21 The Air Resources Board is continuing to conduct
22 extensive outreach and they're going to do some
23 community meetings. They're going to talk a little bit
24 more about that. In just a moment you'll hear from
25 Ashley Dunn.

1 From the Energy Commission perspective, we're
2 really prioritizing the development of energy equity
3 indicators to be used in tracking progress on this
4 overall effort. And so, we heard about that last time
5 around, but we're now currently working to develop a
6 revised draft of this framework paper that will be
7 published later this year, ultimately leading up to
8 publishing a tracking progress report that kind of
9 summarizes some key snapshots of the status that will be
10 used to track progress over time as we move forward.

11 And then beyond that, again, there will be a
12 number of activities; too many to list here, but just
13 wanted to give a quick update of that timeline.

14 So, at the last workshop, on May 16th, again we
15 heard about the formation of this task force and the
16 need for really close coordination across a number of
17 agencies, and with a number of stakeholders throughout
18 the State.

19 And under that large umbrella of coordinating
20 amongst agencies there was a discussion about a need to
21 really focus on solutions for multi-family buildings,
22 and looking at potentially how to solve some of the
23 issues with split incentives. And make sure that
24 building owners and occupants are both able to benefit
25 from clean energy.

1 We heard a lot about strategizing on a green
2 workforce and education strategy across several
3 agencies, and there was a good discussion there.

4 We heard about the need to continue developing
5 energy upgrade financing pilots. And some of the
6 proposals that were included in the Barriers Study were
7 discussed at the May 16th workshop.

8 Again, we heard about the need to establish
9 common metrics and use data better across programs to
10 help set goals, and track progress, and continue to
11 increase performance across the State.

12 And then there was a discussion about a regional
13 one-stop-shop pilots that were a recommendation from
14 both the Energy Study and the Air Resources Board study.

15 So, just to give a little bit more on some of
16 the key takeaways that we heard at that last workshop,
17 for multi-family buildings, again this is a strong
18 priority that we heard for the agency coordination
19 that's needed, and coming up with key actions that can
20 be taken to help address the split incentive issue, and
21 unique issues faced by multi-family buildings and
22 renters.

23 We heard it's really important to engage with
24 building owners and make sure that they have an
25 incentive to participate, or else it doesn't sort of

1 move the needle enough.

2 We heard a discussion about needing kind of
3 multi-year program funding to provide a little bit of
4 market certainty and make sure that programs can plan
5 accordingly.

6 A little discussion about kind of some of the
7 technical assistance needs and one-stop intake to make
8 things easier for renters and building owners to pursue
9 energy upgrades.

10 And really, I mean this is key across all of the
11 recommendations, but we heard the need to leverage
12 lessons learned from existing programs. Not only within
13 the State of California, but elsewhere throughout the
14 country, other states or municipalities that have really
15 shown some progress in this area.

16 And, you know, this is really just a quick
17 snapshot. There was a lot more in the discussion and
18 there's a lot more on the record of the May 16th
19 workshop. So, we'll be looking at how to report out on
20 that as we move forward a little more detail.

21 The second key topic here was the need for
22 regional one-stop shop pilots to provide information and
23 resources to local residents in disadvantaged
24 communities.

25 We heard about a combination of online and a

1 brick and mortar presence, or something that was coined
2 as "bricks and clicks" which seemed to stick with me.

3 A very strong partnership need with local
4 organizations to make sure that you're engaging with
5 really the specific needs of the community, and
6 understanding what their priorities are.

7 Strive for transparency and making sure that
8 lessons learned and information gets out quickly, so
9 there's that really strong connection with locals.

10 And, again, looking at existing programs that
11 have strong some success that may be leverage for this
12 and one of those that was mentioned explicitly was the
13 CSD's LIWP program, to look at the model and ways that
14 we may be able to leverage. But there's also a number
15 of other possibilities.

16 And so, again, it was a really good
17 conversation. It's actually recorded on the Energy
18 Commission's website and all the presentations are
19 posted as well. This is just quick summary of some of
20 the key points.

21 And the Green Workforce strategy, again, this
22 was a great conversation led by the Workforce
23 Development Board, and good questions from Commissioners
24 throughout the process.

25 But there was a priority placed for making sure

1 there's coordination across not only the energy
2 programs, but transportation programs, and striving for
3 consistency across the board.

4 Looking at, really, training should be driven by
5 demand and making sure that there are jobs that are
6 available for people that are going through training.
7 So, looking at things like pre-apprenticeship, and
8 apprenticeship programs, and making sure that there's
9 that avenue for really career developments and family-
10 sustaining jobs.

11 And then making sure that there's perspective
12 from businesses, in addition to the community benefits
13 that can be enable by, you know, a Green Workforce
14 Development strategy.

15 And there's lots of other key points again, in
16 there on the record, but these are just a few.

17 And looking lastly here at financing pilots, so
18 a great discussion about some of the suggested pilots
19 from the Energy Commission study, but overall theme was
20 that there needs to be more creating market solutions
21 and looking at public/private partnerships wherever
22 possible.

23 A great discussion about tariffs, the on-bill
24 financing, and some potential that has been shown in an
25 Arkansas case study.

1 Looking, again, that California should leverage
2 lessons learned from other states. For example, that
3 Arkansas study but several others that were mentioned as
4 well.

5 And then, looking at the ability for financing
6 to create additional jobs and create some of the
7 additional benefits that are highlighted throughout the
8 Barrier Study.

9 And, of course, we heard about some of the
10 existing utility programs. We're going to hear a little
11 more discussion on some utility efforts today. But,
12 really, highlighted that there's a big diversity amongst
13 the existing utility programs, but there's really more
14 options needed across the board, and we really have some
15 work to do.

16 And lastly, just highlighting again the Energy
17 Equity Indicators effort we published, in May 2017, this
18 initial staff draft paper with a framework, 12 proposed
19 indicators. And we talked about those in a little
20 detail at the last, the May 16th workshop.

21 But now, looking forward, we're going to post a
22 revised draft sometime late this month or early next
23 month, solicit additional feedback, and then look to
24 develop a tracking progress report by the end of this
25 year.

1 And, you know, this is really exciting because
2 this is actually just announced today. So, as a matter
3 of fact there's a requirement in SB 350 for the Public
4 Utilities Commission and the Energy Commission to
5 develop a joint advisory group that consists of
6 representatives from disadvantaged communities, that
7 looks at reviewing and offering advice on programs that
8 are proposed under SB 350.

9 So, a draft framework was just posted today or
10 will be posted very shortly here, if it's not already
11 online. We actually have some key questions in that
12 document that are posed for stakeholders. And we're
13 really looking for comment back from interested folks
14 and key stakeholder groups to make sure that we have,
15 ultimately, a proposal that's going to meet the
16 requirements of SB 350 and yield the greatest benefit.

17 So, I wanted to note here, as well --
18 unfortunately, it looks like the link's wrong on the
19 slide here. So, there's an updated link. We'll make
20 sure that the posted version has an updated link to
21 that. But the comments are going to be due by the 15th
22 of August on that draft. And there is a new web page
23 that's going to be live just a little later this
24 morning, as a matter of fact.

25 And it's energy.ca.gov/sb350/dcag. Again, we'll

1 make sure that that gets updated in the posted version
2 here. Just a little bit of a version mix up issue here.

3 But wanted to highlight that for everyone. We
4 really hope that there's a lot of comments received.
5 And again, you can reach out if there's any questions
6 about how to comment or where the appropriate website is
7 for that. But comments will be due on the 15th.

8 Going forward, so today here are the key
9 discussion topics that we're going to focus in on in
10 today's agenda. We're going to hear a lot about the
11 utility efforts to enable benefits for low-income
12 customers in disadvantaged communities, and really
13 engage with local community groups and residents.

14 We're going to hear a presentation about the
15 need for heightened consumer protection and some of the
16 key issues that are highlighted throughout the clean
17 energy economy related to consumer protection.

18 We're going to hear some projects from the
19 research, development and demonstration side that are
20 looking at enabling specific benefit streams for low-
21 income customers in disadvantaged communities.

22 And then we're going to hear about some of the
23 issues faced by small businesses in disadvantaged
24 communities and contracting opportunities. And, you
25 know, the Energy Commission recommended a follow-on

1 study to the study that we published that looks in a
2 little more depth at some of those. So, today's
3 conversation will point a little more to some of the
4 potential solutions and help provide some guidance on
5 moving forward with a follow-up study.

6 And lastly, we're going to hear about some plug
7 load efficiency opportunities for low-income customers.
8 And, really, that's a follow-up on the multi-family
9 building discussion that was held at the May 16th
10 workshop, to get a little more into the weeds of plug
11 load opportunities. And, really, how better use of data
12 can help drive that conversation forward.

13 So, beyond today, as I mentioned in the kind of
14 first slide there, the Energy Commission will continue
15 to participate in the task force meetings moving
16 forward, you know, facilitated by the Governor's Office.

17 Both through the task force and otherwise we're
18 going to coordinate very closely with the Public
19 Utilities Commission, the Air Resources Board, and a
20 number of other agencies, both at the State level, at
21 the local level, key stakeholder groups.

22 You know, we realize that this is a huge effort
23 and it's really going to be a collaborative opportunity
24 moving forward.

25 Looking at additional regional community

1 outreach, participating where it makes sense with the
2 Air Resources Board's efforts, or potentially looking at
3 some of our own efforts to return back to the
4 communities and provide resources and follow up on what
5 we heard during the scoping of the study.

6 As I mentioned, looking at tracking progress on
7 the SB 350 goals and the Barrier's recommendations.

8 And then, you know, the overarching umbrella
9 here is the Energy Commission's Integrated Energy Policy
10 Report, which is this is an IEPR workshop today. And so
11 there will be some key reporting sections in the 2017
12 IEPR that look at SB 350 implementation and the Barrier
13 Study.

14 So, I'll go ahead and leave it there. If
15 there's any key questions or comments from
16 Commissioners, if not I'll go ahead and turn it over to
17 Ashley Dunn to present for Air Resources Board.

18 COMMISSIONER GUZMAN ACEVES: Thank you, Michael,
19 excellent summary and presentation.

20 I just wanted to reiterate that one of the
21 things we're really looking forward to in collaborating
22 with the CEC is on the Disadvantaged Community Advisory
23 Group -- or is it working group? So many acronyms. The
24 group. To really inform us about how we start to carry
25 out these recommendations.

1 And as Michael mentioned, the posting of the
2 framework for comment is up and, hopefully soon we'll
3 have a posting for information on recruitment, so we can
4 actually get the body formed. So, keep an eye out for
5 that.

6 MS. RAITT: Okay. So, next is Ashley Dunn from
7 the California Air Resources Board.

8 MS. DUNN: Thank you very much, Michael. Good
9 morning everyone and good morning to the Commissioners.

10 My name is Ashley Dunn and I'm the lead staff
11 person overseeing the SB 350 Clean Transportation Access
12 efforts at the California Air Resources Board.

13 Since we're here today to talk about our joint
14 efforts with SB 350 implementation, we wanted to take
15 this wonderful opportunity to provide you with an update
16 regarding our efforts and ongoing activities, both as we
17 work to finalize the guidance document later this, but
18 also as we continue to move forward and make progress
19 with implementation.

20 So, as part of our ongoing SB 350 joint
21 implementation effort, we're coordinating very closely
22 with the Energy Commission and the Public Utilities
23 Commission, as well as the other State and local
24 agencies that Michael referenced earlier as part of our
25 ongoing efforts with the task force.

1 So, over the last few months since our draft
2 guidance document was released for public comment back
3 in April, we've been prioritizing our clean
4 transportation recommendations to be implemented over
5 the next two years. And, really, want to start to show
6 progress and benefits in low-income and disadvantaged
7 communities.

8 So, based on the priorities we've identified,
9 we'll be reviewing potential metrics for success. And
10 these are kind of similar to the indicators that Michael
11 referenced.

12 So, we've received a lot of suggestions for
13 existing resources that might be available for these
14 metrics, and we're also trying to be really creative in
15 our approach because we realize that we want these
16 metrics to be both meaningful, and measurable, as well.

17 So, this effort on the metric side will continue
18 in close collaboration with the Energy Commission since
19 our main recommendations, as you'll hear in a minute,
20 really overlap with each other, which is actually a
21 really wonderful thing.

22 So, right now we're working to finalize the
23 guidance document. It will include these priority
24 recommendations, as well as our longer-term plans for
25 what we plan on doing with the other recommendations

1 included within our draft report, because there are
2 quite a few.

3 So, we'll continue to plan for and help with the
4 Governor's Office Task Force. And we'll also be moving
5 forward with our relationships with the lead and
6 supporting agencies for each of those recommendations,
7 and especially the ones that are priority because we
8 want to make sure we can make some progress.

9 So, based on the recommendations that were
10 included in the draft guidance document, and what we've
11 heard in our work directly with the communities, which I
12 think is equally as important, we've narrowed down four
13 main priorities for increasing clean transportation
14 access. And these are the ones that we want to try to
15 focus on for the next two years.

16 So, just a quick note, these are very
17 preliminary in the sense that we want to continue
18 discussing with the State agencies. We're still working
19 on a plan for going back to the communities to talk to
20 them about these priorities, to see which ones they
21 think are most important.

22 We also will be continuing to discuss these
23 through our broader public process this fall.

24 But with that said, I want to just walk really
25 quickly through these four that we've identified. So,

1 the first one's actually directly related to some of the
2 efforts at the Energy Commission, which is really
3 working to conduct and expand assessments of clean
4 transportation, and mobility needs. And the reason for
5 this is we want to ensure that low-income and
6 disadvantaged community feedback is incorporated into
7 the planning process.

8 Secondly, and this is a really critical
9 component, is the need to increase awareness. And
10 that's of clean transportation and mobility through
11 targeted education and outreach.

12 Thirdly, the need to really identify, but also
13 expand funding for clean transportation. And then,
14 also, designing competitive solicitations in a way
15 that's very inclusive of folks within rural, tribal and
16 urban communities. And also small businesses, we want
17 to make sure we remember small businesses and promote
18 equitable competition when it comes to how we're
19 designing our grant and incentive programs.

20 So, please note that not all of these
21 recommendations have the California Air Resources Board
22 as the lead agency. This will take a lot of efforts on
23 the part of the other State agencies, as well.

24 We want to make sure we understand very soon
25 what can be done within each of these priority

1 recommendations and make sure that they're actionable,
2 which includes making sure the right parties are
3 involved. So, that's why we really want to continue
4 with our public process.

5 So, we're working closely with the Energy
6 Commission on these recommendations, especially the ones
7 that I want to highlight here, which is expanding
8 assessments, increasing awareness, and the design of the
9 competitive solicitations.

10 But I also want to make sure it's clear that
11 we're working with the Public Utilities Commission, as
12 well, specifically on the increasing awareness because
13 they are listed as a lead agency as part of that effort.
14 And so, that's a really important collaboration that we
15 see ongoing into the future.

16 So, really quickly, I'm going to walk you
17 through each of these recommendations in a little bit
18 more detail, just to kind of give you a sense of what
19 we're talking about.

20 So, the first one, as I mentioned, is the need
21 to conduct and expand assessments of unmet clean
22 transportation and mobility needs, which is really the
23 primary comment that we heard when we went out to the
24 communities last year, as part of our engagement.

25 And, really, it was also one of the key thing we

1 heard through our public process, as well.

2 So, communities want to ensure that their voices
3 are heard as we're making clean transportation and
4 mobility investments across the State. And they also
5 want us to really look at what are the gaps so that we
6 can really allow for equitable access across the State,
7 as well.

8 So, this recommendation involves directly
9 engaging with and partnership with the community-based
10 organizations that really have the trust and the
11 knowledge base to really understand what those localized
12 needs are.

13 So, the next one is the need to increase
14 awareness, which includes access to information,
15 exposure to clean transportation and mobility options
16 across the State. This is really critical for
17 overcoming the barriers that we've identified in the
18 draft guidance document.

19 And just to kind of highlight for you, this is
20 also one of the priorities when you're looking at the
21 Zero Emission Vehicle Action Plan that was developed.

22 This recommendation includes a multi-pronged
23 approach, which is twofold. Developing a strategic
24 community outreach plan that's really specific to the
25 community needs and making sure that that's culturally

1 relevant, as well.

2 But also, as Michael mentioned to you earlier,
3 creating regional one-stop shops for clean
4 transportation projects, workforce development which
5 would include job and training opportunities, and making
6 sure we're making connections to good quality jobs. As
7 well as not just looking at this from the consumer
8 perspective, but what about the small businesses and
9 local entities that also need to be very aware of the
10 clean transportation and mobility programs that exist.
11 So, I think that's really critical for this process.

12 And just to highlight, we've already been doing
13 a lot of thinking in this area. So, this is an area
14 where we really think we can have or at least show some
15 success in the short term.

16 Next and I think this is a fairly obvious one,
17 but one of the main themes in our draft guidance
18 document was really the need to identify sustainable
19 long-term funding because we know that that's going to
20 be needed to support this effort.

21 It's critical that the funding be directed to
22 the specific needs of the communities, which we would
23 identify through that expanded community needs
24 assessment.

25 And also, I just want to mention, too, that when

1 you talk about expanding funding, let me just give you
2 some examples of what we're actually talking about. So,
3 things like car sharing, and bike sharing programs,
4 vanpooling, especially when we look at the San Joaquin
5 Valley, those types of projects.

6 In addition to clean public transportation,
7 where we're looking at school buses, public transit.
8 And active transportation and clean transportation
9 infrastructure would be included within this category in
10 addition to the financing mechanisms which Michael
11 mentioned earlier.

12 So, the need to design carefully crafted, clean
13 transportation solicitations for grant and incentive
14 programs, really to be more inclusive of those
15 communities that I mentioned to you earlier, was
16 mentioned through the 350 process. And we really think
17 that's a key mechanism to increase access over time.

18 We see a vital need to connect the communities
19 to resources that are available, including expertise. I
20 think that's vital. That will allow for better access
21 to funding opportunities, as well as building capacity
22 over time.

23 So, some of the efforts on this have already
24 been underway. I can give you an example. So, when it
25 comes to the clean transportation projects that the Air

1 Resources Board oversees, we've been really trying to
2 look at our grant and incentive applications now, and
3 make adjustments based on the lessons that we've learned
4 over time to be more inclusive, and maximize
5 participation in our programs.

6 And I think that that's something that we want
7 to look at more comprehensively, as well.

8 And real quickly, on this slide, too, I think
9 it's important to make connections between the other
10 efforts that are ongoing that are related to SB 350.

11 One great example is the Transportation
12 Commission's development of funding guidelines as part
13 of the SB 1 process. That's something that we're
14 tracking very closely as they work on those guidelines,
15 but also we're trying to share our experiences through
16 the SB 350 process, and through this example priority
17 recommendation on how we can potentially streamline the
18 grant and incentive application processes.

19 But also, transformative climate communities is
20 another great example of an area where we think there
21 should be a lot of collaboration with our partners at
22 the Strategic Growth Council. And also, part of that
23 would be technical assistance, which relates to this
24 recommendation.

25 So, quickly, I'll go through the next steps. I

1 think that first, as we continue our public process, I
2 just want to highlight to you that we're actually still
3 getting feedback on our draft guidance document. We've
4 received feedback from a lot of different groups. Our
5 board members have been very vocal, as well, about how
6 they want to see changes in the final document. So, I
7 think the final product will be a lot better than what
8 was published. It will be a lot more comprehensive and
9 make ties to things like health impacts, and reduced
10 VMT, and also our work with sustainable community
11 strategies as part of SB 375.

12 We anticipate further meetings with our
13 stakeholders on these priority recommendations that I
14 mentioned to you. But also, we just want to talk more
15 generally about implementation and how we move ahead
16 with making sure that we're increasing access across the
17 State.

18 So, as we work to finalize the guidance
19 document, we'll continue to be actively involved within
20 the task force. So, we think this is a great
21 opportunity to really bring together all the State
22 agencies that have common goals across energy and clean
23 transportation. We really want to show that meaningful
24 progress, as I mentioned to you earlier.

25 So, this slide is just in case you guys have

1 questions or comments at all on anything I went through.
2 I just wanted to make sure that we're giving you a very
3 comprehensive update of where we are currently with this
4 project.

5 Our collaboration with the Energy Commission,
6 the Public Utilities Commission, and other State
7 agencies is really vital as we move forward with this
8 effort.

9 So, if you have any questions, my contact info
10 is here. Also, just to highlight that we do have a
11 project website, as well, that's available. If you have
12 any questions, I look forward to hearing them as well
13 from the Commissioners. Thank you, guys, very much.

14 MS. RAITT: Okay, hearing no comments, we'll
15 move on to the first panel of the day, which is on
16 Utility Efforts to Improve Clean Energy Access for Low-
17 Income Customers.

18 So, if the panelists could go ahead and come to
19 the tables, we'll have nameplates waiting for you.

20 And the Moderator for this panel is Melicia
21 Charles, from the CPUC.

22 MS. CHARLES: Just making sure everybody's
23 settled in. I'm going to move this back. Can you guys
24 hear me okay? Great.

25 Good morning, everyone. I am Melicia Charles.

1 I'm from the Public Utilities Commission. I work in
2 Energy Division. I work on a number of different
3 issues. One of them being disadvantaged communities'
4 issues.

5 And so, before we start the panel, I'm just
6 going to give a high level overview of some of the
7 activities that are happening at the CPUC with regards
8 to utility efforts.

9 And I do want to preface this presentation by
10 saying that we mainly regulate the Investor-Owned
11 Utilities. As you know, we don't regulate the POUs.

12 And we have a lighter regulatory hand with the
13 CCAs, even though they're here on the panel. And so,
14 this short presentation is focused on IOU efforts. But
15 I am looking forward to the larger conversation with the
16 larger group of stakeholders.

17 The next slide. Okay, so just in terms of our
18 programs, the CPUC has been doing a number of programs
19 that have targeted low-income communities for years.
20 And so, here's a list of some of the programs. It
21 includes the CARE Program, and other rate discount
22 programs. We also have the Energy Savings Assistance
23 Program, which provides no-cost weatherization services
24 to low-income households.

25 We also have several solar programs. The Single

1 Family Affordable Solar Homes Program and the Multi-
2 Family Affordable Solar Housing Program, which provide
3 incentives for PV on affordable housing.

4 And then, we also have a program that provides
5 incentives for solar thermal technologies.

6 The next slide. As I mentioned, we've been
7 doing these programs for years. But when SB 350 was
8 codified into law, it really did create a shift in terms
9 of how we looked at low-income and disadvantaged
10 communities.

11 For example, the focus tended to be on low-
12 income and income-eligible households. SB 350
13 definitely helped shift our thinking in terms of
14 broadening that to disadvantaged communities and
15 communities that are dealing with pollution burdens.

16 And at a high level, SB 350, I know it's been
17 discussed before, but I'll talk about it in terms of the
18 CPUC, has a 2030 greenhouse gas reduction goal of 1990
19 levels -- 40 percent below 1990 levels.

20 For the CPUC, it means encouraging resource
21 optimization by developing an integrated resource
22 planning process. It increase, as you know, renewables
23 from 33 percent to 50 percent by 2030. And has a target
24 of doubling energy efficiency.

25 And it also encourages transportation

1 electrification to reduce economy-wide greenhouse gases.
2 And it also places and early priority on disadvantaged
3 communities, as Michael mentioned earlier.

4 We are working in all of these areas. The
5 slides that I have, which are publicly available, do
6 have some tables towards the end, which I'm not going to
7 go into, that gives an update on what we're doing in
8 each of these areas, and it goes into more detail. It's
9 something I ran through at the Disadvantaged Communities
10 en banc, which was discussed earlier.

11 But instead, because are sort of time limited, I
12 wanted to focus on a couple of programs that are
13 happening and then broaden the discussion to the wider
14 panel.

15 So, the next slide. So, in terms of
16 consideration of disadvantaged communities, it does
17 require the CPUC to consider disadvantaged communities
18 in our decision making processes, prioritize air quality
19 improvements, target economic benefits, and include the
20 voices in disadvantaged community decision making.

21 And this was mentioned earlier and I'm going to
22 plug it again, because we like pushed to get this out.
23 But one of the ways that we're doing this is that we are
24 jointly developing an advisory group with the CEC.

25 There's a staff proposal that should be released

1 imminently, like literally momentarily, and we do
2 encourage stakeholders, I'm going to look out to the
3 audience to provide comments to us by August 15th.

4 The next slide. So, as I mentioned, I wanted to
5 target a couple of activities that we're doing and one
6 of them is on transportation electrification.

7 The CPUC has had EV programs for years. But
8 what SB 350 did was broaden the definition of
9 transportation electrification and our focus from just
10 vehicles, but to transportation electrification more
11 broadly.

12 And as a result -- actually, before I talk about
13 what we're doing with TE, I would like to talk a little
14 bit about infrastructure pilots.

15 Prior to SB 350 being codified, we did work on
16 adopting three infrastructure pilots that have a
17 collective budget of just under \$200 million. And the
18 purpose is to install a cumulative 12,500 chargers in
19 PG&E, Edison, and SDG&E territories.

20 Within each of those programs, and each of the
21 programs are different, and because they're pilot
22 projects we are doing a little bit of experimentation in
23 terms of how these programs look. But each of the
24 programs do allocate 10 to 15 percent of their funding
25 to disadvantaged communities. And they're in various

1 phases of implementation, but it's something that we're
2 doing right now in terms of looking at disadvantaged
3 communities, looking at how we can target these
4 communities, and how we define them. And so, we're
5 hoping those early learnings will inform our efforts
6 with regards to transportation electrification.

7 On to the applications. Pursuant to SB 350, we
8 did, at the CPUC, require the IOUs to submit
9 applications to encourage transportation
10 electrification. So, in January, the large IOUs, PG&E,
11 Southern California Edison, and SDG&E submitted
12 applications with a collective budget of over \$1
13 billion, with a number of different projects supporting
14 transportation electrification. I'll talk a little bit
15 about the different projects targeting disadvantaged
16 communities and impacting them.

17 And then in June, the small Investor-Owned
18 Utilities also submitted projects.

19 And so I think, collectively, when you look at
20 the projects between the six utilities, large and small,
21 we have over 30 plus projects that we're looking at and
22 considering at the CPUC. And we're hoping to have a
23 decision on some of the priority projects later this
24 year, in a couple of months, in the fall.

25 And projects that impact disadvantaged

1 communities include projects in the Port of Long Beach.
2 Those were promoted by Southern California Edison. And
3 then, there are also projects for medium and heavy duty
4 vehicle sectors for transit corridors, which again,
5 would have an impact on disadvantaged communities. And
6 there are projects for bus fleets.

7 So, as I mentioned, we are reviewing all of
8 those. We are considering the impacts broadly on
9 disadvantaged communities. And look for us to start
10 making decisions and adopting some of these programs
11 very soon.

12 The next slide. So, this is an area, this is
13 the San Joaquin Valley proceeding. And it is separate
14 from, but related to the SB 350 activity. I just wanted
15 to mention it, briefly.

16 The CPUC did open a proceeding to increase
17 access to affordable energy in San Joaquin Valley. It
18 provides guidance, with flexibility to analyze and array
19 of options to achieve the statutory purpose, which is
20 basically this is pursuant to AB 2672.

21 And it includes extending natural gas lines,
22 increasing electric subsidies, and exploring other
23 alternatives.

24 And where we are right now, there's been a lot
25 of work that has happened in the past year or so. And

1 right now stakeholder meetings have been held over the
2 summer, and the CPUC is commencing data collection and
3 analysis within this proceeding.

4 Okay, moving to the next slide. So, those are
5 just a couple of programs. As I mentioned, there's a
6 lot of activity happening. For us, disadvantaged
7 communities' spans across a number of different
8 proceedings. The whole point of this graphic is to show
9 how wide-ranging and cross-cutting these issues are.
10 And it's something that I've mentioned before, and I
11 will mention again, I do believe -- we've had, as I
12 said, we've had a number of programs. We continue to
13 have programs for low-income and disadvantaged
14 communities. I do think SB 350 and a lot of the
15 momentum in the other recent statutory mandates are
16 challenging us and giving us the opportunity to think
17 through, more comprehensively, how we address
18 disadvantaged communities.

19 And so, moving to the next slide. I am
20 basically done. But as we move into the panel, I think
21 some of the questions to consider as we begin the
22 discussion with the larger group is how has SB 350 and
23 other recent legislation related to disadvantaged
24 communities changed activities for both IOUs, POUs, CCAs
25 in terms of disadvantaged communities?

1 I know it has changed and shifted our activities
2 at the CPUC and I look forward to hearing how it has for
3 you guys, too.

4 And how do you target low-income customers
5 within these specific communities?

6 And I'm really curious because we have these
7 large IOUs represented here, with millions of customers,
8 and the new have municipal utilities and CCAs who have
9 smaller targeted groups. And it would be interesting to
10 hear sort of the different ways you guys target.

11 And then, how do you build trust within these
12 communities? This is something that we are also
13 struggling with at the CPUC in terms of thinking through
14 how do we build trust? How do we build a truly
15 collaborative relationship within these communities?

16 And then, how are community advisor groups
17 leveraged? I know that Edison has an advisory group. I
18 know that there are advisory groups that are being
19 formed. And I would be curious about hearing that,
20 especially as we begin to develop our own advisory
21 group.

22 And with that, I'm going to stop and I will
23 either -- if you guys have questions, I'm happy to take
24 them, or else we can move on to the other panelists.

25 CHAIR WEISENMILLER: Let me raise at least a

1 topic, which as we get through the panel can come up
2 again. Obviously, the PUC's been a real leader with the
3 IOUs on diversity in the area of contracting.

4 Do you have a sense of how much the diversity
5 contracting is in DACs? And then, also, how much that
6 applies not just to the IOUs, but sort of progress in
7 that area among the other load-serving entities?

8 MS. CHARLES: I don't have a sense. It's very
9 interesting that you asked that question because it came
10 up yesterday. I forgot what conversation. But I don't
11 have a sense of how much diversity contracting is in
12 DACs, but that's something we can definitely follow up
13 and check into.

14 MR. CAMACHO: Thanks for the presentation. That
15 was great. How did you arrive to the 10, 15 percent
16 allocation? I'm just curious and I'd like
17 clarification.

18 MS. CHARLES: That's a good question. And you
19 know what, it's been a while. I have a former employee
20 in the audience who I could -- who works at the CCA, who
21 I could look at.

22 You know what, I cannot remember how we can to
23 the 10, 15 percent with regards to it. I think it
24 seemed like an appropriate amount in making sure that
25 some was allocated for disadvantaged communities. But

1 making sure that, because we were trying to bolster the
2 market that we did allow for other market segments at
3 this point. But I'm happy to follow up in terms of a
4 more specific answer, yeah.

5 Okay. So, I guess to begin, I'm not sure where
6 to start so I'm just going to kind of go down the line.

7 MR. FERNANDEZ SMITH: So, at this point would
8 you just like name and roll, and go around that way, or
9 would you like us to give some opening comments?

10 MS. CHARLES: I think, if you guys don't have a
11 preference, maybe name, roll, opening comments, and then
12 go down the line, and then I'll open it up to you guys
13 for questions. Does that work?

14 MR. FERNANDEZ SMITH: yeah, that sounds good.

15 MS. CHARLES: Okay.

16 MR. FERNANDEZ SMITH: Good morning, everyone.
17 My name is Allen Fernandez Smith and I'm with PG&E. I
18 lead many of our low-income programs' strategies and our
19 community engagement outreach.

20 I also want to say thank you for the
21 presentation. I think it was a wonderful overview. And
22 we also applaud the Commission and its leadership, along
23 with the stakeholders, to start to really lift up the
24 plight of disadvantaged communities and focusing on
25 that.

1 From the presentation, you'll see that
2 disadvantaged communities is coming up in a lot of
3 places. And because of that one of the questions was
4 how is PG&E reacting to that? What are we doing to
5 really align ourselves so we can focus on it?

6 We've worked to make sure that we are more
7 intentional about that alignment and coordination. That
8 it's about bringing forward a comprehensive strategy and
9 making sure that it's not just these disparate
10 opportunities that are happening in different places.

11 And so through that, we're making sure that
12 internally we're forming workgroups and opportunities
13 for the different programs to be working together and
14 moving forward. So, that is starting with the same
15 levels of information, looking at some joint outcomes,
16 even using data to figure out what are these communities
17 that we're really talking about.

18 And that's helping us think through some of the
19 outcomes for our programs. But with that, it's fully
20 undergirded by that community outreach and engagement.
21 We need to make sure that we're fostering those
22 authentic partnerships.

23 And so, we have a number of different ways that
24 we are using advisory groups, and I can talk about this
25 later on as we get more into it, and that we're building

1 out our community engagement partnerships. Whether it
2 be with our schools, or our after-school programs, or
3 our community health outreach workers, multilingual
4 opportunities and organizations. Really looking at how
5 do we really build a robust, comprehensive look at those
6 relationships.

7 So, I'll leave it there and I'll let us keep
8 going, but I'm happy to talk a little more in-depth
9 about those things.

10 MR. RENFRO: Aaron Renfro, from Southern
11 California Edison. I'm the Regulatory Program Manager
12 for the EPIC Program. And I was the author and the
13 project manager of the EPIC 1, 2 and 3 applications for
14 Edison.

15 So, just let me say a few things. DAC's a very
16 important issue for Southern California Edison. And
17 being that, of the DAC population here in California 47
18 percent live in Edison's service territory, so very
19 important.

20 And wanted to also note that our efforts in this
21 space preceded any formal orders from the Commission.

22 Also wanted to quickly note our support of AB
23 523 that Reyes is sponsoring for the DACs.

24 So, just wanted to quickly mention a couple of
25 different items that we can talk more in-depth as we go

1 through. But wanted to highlight our working group that
2 we just put together, in collaboration with the
3 Greenlining Institute. Stephanie Chen's been
4 instrumental in that process.

5 And that's basically taking these community-
6 based groups, and environmental justice groups, and
7 getting a better sense of their needs within our service
8 territory.

9 We also have some current efforts underway. And
10 those include things like our enhanced gas turbine. We
11 also have our Net Energy Metering 2.0 proposal. And we
12 also have our transportation activities that Mel had
13 just mentioned, both in the clean fuels space, that's
14 like our reward program, as well as our recently-filed
15 transportation electrification proposals that she also
16 had just talked about.

17 And then, of course, we have our EPIC
18 applications, both from our past portfolios and the
19 portfolio that we have in front of the Commission,
20 currently.

21 So, I'll stop there and let San Diego talk.

22 MS. PALERMO: Thank you. Hi, I'm Erin Palermo
23 from SoCal Gas. I am the Energy Efficiency and Low-
24 Income Policy Manager. And I wanted to talk today about
25 our efforts that we have serving our low-income

1 customers.

2 Similar to Edison, we have over a third of our
3 customers who are income qualified, and we know that
4 energy affordability is really important to all of our
5 customer base. And natural gas really plays a key role
6 in those communities as a low cost and relatively low
7 emissions fuel.

8 So, we know there's significant opportunity in
9 disadvantaged communities to really reduce emissions and
10 benefit these communities through heavy duty natural gas
11 vehicles, through developing renewable gas for pipeline
12 injection for core residential and commercial end uses,
13 and through serving our customers in our low-income and
14 energy-efficiency programs.

15 We're also actively exploring extending natural
16 gas service to the San Joaquin Valley, as was mentioned
17 earlier, to reduce particulate emissions and also
18 benefit those customers and reduce their energy burden.

19 So, a couple of the programs I wanted to
20 highlight. So as Melicia mentioned, we have our Energy
21 Savings Assistance Program. In 2016, we served over
22 60,000 households with that program.

23 And we're looking now; we have efforts in place
24 in 2017 to really expand the presence of that program.

25 One of those efforts is partnering with LADWP to

1 offer a really comprehensive gas, water, and electric
2 measure offering to multi-family customers to address
3 some of the barriers we heard in the Barrier Report.

4 We also have a program with South Coast AQMD,
5 Air Quality Management District, to partner to reduce
6 emissions in Boyle Heights and San Bernardino.

7 So, the ESA Program provides attic insulation
8 and other measures that improve air quality, while South
9 Coast AQMD at the same time does air sealing efforts in
10 the home.

11 So, through these partnerships we can really
12 expand our program offerings and reach more customers,
13 and produce more benefit for the low-income community.

14 We also have noticed, in delivering our
15 programs, that there are some barriers that prevent the
16 households from participating. So, if we go to a
17 household and we find they have asbestos or, let's see,
18 or electrical or drainage problems, things like that
19 that would prevent them from receiving the energy
20 savings assistance weatherization treatment, we are
21 finding ways to try to address those barriers to allow
22 those customers to be served by the program.

23 So, right now we have a pilot program with the
24 City of Southgate, where we're testing 100 households to
25 remove those barriers and provide them with this

1 service. And as we move forward with that pilot
2 program, as the results come to be successful, we'll
3 look to expand that to our entire service territory.

4 And lastly, with regard to the San Joaquin
5 Valley pilots, we just proposed five cities that we
6 would like to explore extending natural gas service to.
7 Those are Allensworth, California City, Ducor, Seville,
8 and West Goshen.

9 We know that extending natural gas service will
10 really help improve the safety, health and the
11 environment in those communities, and it will reduce
12 greenhouse gas and particulate emissions, especially for
13 customers who currently use propane and wood for their
14 space and water heating.

15 So, those are just a few of the offerings we
16 have and we look forward to any more questions, or in
17 speaking more in-depth on these things. Thank you.

18 MR. TUTT: Good morning, Commissioners. This is
19 Tim Tutt from the Sacramento Municipal Utility District.
20 I'm the Program Manager for State Regulatory Affairs
21 there.

22 And I was going to go through a variety of high
23 level information about SMUD's programs for
24 disadvantaged communities in solar, and energy
25 efficiency, and on transportation, et cetera. As the

1 panel goes on, I can cover some of those.

2 But let me just start by responding a little bit
3 to Ms. Charles' comments. I mean, this is clearly a lot
4 of change at SMUD, based on what's been going on at the
5 State level and our concerns with disadvantaged
6 communities.

7 We had an environmental justice panel come out
8 and give a presentation to our board a few months ago,
9 and that set off an internal effort to really reexamine
10 everything that we're doing to help low-income
11 communities and environmental justice in our service
12 territory.

13 We have about 100,000 customers on what we call
14 our Energy Assistance Program Rate. It's very similar
15 to, I believe, the Investor-Owned Utilities' Care
16 Program. And based on census data, another 80,000
17 customers are eligible, but just they don't sign up.

18 Currently, that program provides a discount on
19 the infrastructure charge to our customers. That's the
20 fixed charge that most customers can't avoid, no matter
21 what their electricity is. And also, a discount on
22 their electricity rate, up to 48 percent. It's capped
23 at \$42 per month, per customer. That's our current
24 program.

25 We just adopted a reevaluation or refocus of

1 that program that is going to go into effect in 2019 and
2 be phased in.

3 And in that, we're going to be focusing those
4 discounts much more significantly on the customers that
5 really need it, the lowest income customers, and the
6 customers where if we look at their energy bill, we see
7 that they have a high energy bill burden in comparison
8 to their income.

9 So, we'll be focusing energy efficiency programs
10 on those customers and focusing the energy bill
11 assistance on the lowest income and most neediest
12 customers.

13 I wanted to speak a little bit about how we
14 coordinate that program with our local entities. I
15 mean, SMUD is, as you know, not associated officially
16 with any local government. We're a separate local
17 entity. But we do coordinate with the City of
18 Sacramento, and other local governments.

19 As an example, with the City of Sacramento we
20 have an MOU, so that they use our Energy Assistance
21 Program rate database, those customers. And the City of
22 Sacramento automatically gives those customers discounts
23 on City utilities. You know, sewer, water, trash, et
24 cetera.

25 And in addition, those customers are

1 automatically exempted from the City's utilities tax,
2 that part that we collect and send to the City for
3 utility service.

4 We have similar, but less formal processes in
5 place with the County, and Elk Grove, et cetera. And we
6 fund what's called the Network Connection's Monthly Meet
7 Up, where a bunch of local organizations that serve
8 Sacramento's low-income community share information and
9 foster coordination.

10 So, we do believe in local coordination of these
11 efforts in our service territory.

12 I'll leave the rest for later in the panel and
13 pass it on.

14 MS. ASBURY: Good morning. I'm Jamie Asbury
15 from the Imperial Irrigation District. And my focus
16 this morning is going to be on IID's new eGreen program.

17 We looked at our public programs and we
18 recognized that half of what we were collecting in terms
19 of public benefits charges were going for rate subsidies
20 and rate assistance to our low-income customers. And
21 because of the way that IID's load is, it's 1,000
22 megawatts in the summer and 300 in the winter, even
23 providing that rate assistance was really not helpful.

24 You have a low-income customer segment that is
25 not able to afford efficient housing. We were looking

1 at what we were doing and we were not doing enough.

2 So, we took a look at the District's needs as a
3 whole. What was the customer need? What tools did we
4 have? What resources were available to us? And where
5 we deficient?

6 We took a hard look at what we needed to do and
7 where we needed to go with the program. And so, we've
8 developed eGreen. It is a utility-scale solar program.
9 It's 60 megawatts. We signed a power purchase agreement
10 that was approved by the IID Board two weeks ago. We're
11 going to provide a financial settlement on billing for
12 our low-income customers, with regard to that PPA, and
13 utilizing the generation from that resource.

14 And at a point, and I can explain further how it
15 will work, the transaction will work. Our service
16 territory is 6,500 square miles, so community solar
17 really wasn't going to work in any meaningful way for
18 us. And the more we looked into it, the more costly it
19 seemed to be. It wasn't going to benefit our customers.
20 It was going to be a detriment to them.

21 So, we'll explain how we think eGreen is going
22 to allow us to invest more in efficiency measures for
23 these customers to benefit them even further.

24 We also have a segment of that power purchase
25 agreement that's allocated to economic development rate

1 subsidies for new business creation in the valleys that
2 we serve, and we'll discuss that further.

3 That's a very interesting question about how you
4 get the word out. We have 157,000 meters that we serve,
5 but only 1,500 customers, approximately, quality for the
6 Residential Energy Assistance Program. Clearly, we're
7 not getting all the way into where we need to infiltrate
8 so that people are benefitting from what we have to
9 offer.

10 We have an Energy Consumer Advisory Committee
11 that's mandated by the IID Board. And they're customer
12 advocates, almost like ombudsmen for their particular
13 areas. They've made a number of suggestions that
14 probably never would have occurred to staff. And one of
15 them was have you considered getting the message out
16 through faith-based organizations?

17 Because many of your consumers, that's where
18 they're going to get the vast majority of their
19 information. So, we've started to do a much better job
20 in outreach through the schools, through the colleges,
21 through the tools that we have available to help get the
22 message out. And billboards and advertising are
23 wonderful, but they're not if they're not getting to the
24 people who really need.

25 So, we'd be pleased to discuss the eGreen

1 Program much more as we move along and be happy to
2 answer any questions that you have, and thank you.

3 MS. MENTEN: Good morning, Commissioners. My
4 name is Beckie Menten. I'm the Director of Customer
5 Programs at MCE. MCE is the newest kid in the sandbox.
6 Please allow me a little bit of time for introduction.

7 We are a community choice aggregator. That
8 means we're a joint powers authority. Our board is made
9 up of the 33 local governments that we serve. There are
10 nine new jurisdictions that we just opted into our
11 community in this July, over the summer, and that's a
12 handful of the jurisdictions in Contra Costa County.
13 So, now, we collectively serve Marin County, Napa
14 County, and about half of the jurisdictions in Contra
15 Costa County, as well. Currently serving 250,000
16 customer accounts.

17 MCE's mission is climate change mitigation.
18 This is something that we've worked very hard to do both
19 through the procurement of renewable energy, as well as
20 through energy efficiency and other distributed energy
21 resources programs.

22 Briefly, I want to mention some of the features
23 of our current portfolio, which is equitably accessible
24 to all of the customers in our service area. We've
25 achieved 75 percent carbon-free energy mix this year,

1 more than 56 percent renewable portfolio compliant. And
2 we are contracted for those contracts through 2026,
3 ensuring some long-term reliability of renewable energy
4 in California.

5 We also have a target of 25 megawatts of local
6 production. Local production is particularly important
7 because it also means local jobs. This is something
8 that's very important to the members of our communities,
9 as well.

10 As a CCA, we have access to statutory authority
11 administer energy-efficiency programs by accessing the
12 ratepayer funds that are collected on all customer
13 accounts.

14 We have been serving hard-to-reach customers
15 with those accounts or with those funds for four years,
16 now. Those focus on multi-family and small commercial
17 programs. We also recently, this year, launched a
18 single-family pilot, which is a no-cost programmable
19 thermostat program, which has really promising cost-
20 effective savings, something we're really interested to
21 talk about more, as well.

22 In addition to what we've been able to achieve
23 through those programs, we have some new pilots. I
24 really want to commend the work of the Joint Agency in
25 noticing some of the barriers that exist to serving low-

1 income, because we've seen many of the similar barriers
2 and, actually, many of the similar solutions.

3 So, for example, the idea of focusing on local
4 partnerships is something that is core to our business
5 plan proposal and to several pilots that we have
6 currently launched in our service area.

7 We have the Green and Healthy Homes Initiative,
8 which is an initiative that first started in the East
9 Coast and we're on bringing it to the West Coast. That
10 really blends a variety of program funds that come, for
11 example for the Weatherization Assistance Program, Low-
12 Income Housing Programs, as well as Health and Safety
13 Program funds to make sure that one touch point at a
14 property can really deliver as much of those blended
15 resources as possible.

16 Another example is our proposal for the Energy
17 Savings Assistance Program. We have a pilot that we'll
18 be launching very soon, focused on blending Energy
19 Savings Assistance Program funds, as well as Core
20 Energy-Efficiency Program funds at a single touch point
21 to see if we can overcome some of those split incentive
22 barriers in the multi-family property and really deepen
23 the impact you can get at one building.

24 A feature of that pilot is also exploring the
25 affordability of heat pump installations as a means of

1 both providing greater access to renewable energy
2 integration for some of these facilities and, also,
3 potentially resolving health and savings concerns from
4 combustion safety appliances, as well.

5 So, we're really interested in exploring how the
6 impacts of those actual on-the-ground installations do,
7 how those heat pumps perform, and if this can be a
8 really viable solution in the long-term for renewable
9 energy integration, demand response activities, and
10 affordability, and health and safety concerns.

11 We also have a few other pilots which we're
12 pretty excited about. One of those is funded by the
13 California Energy Commission through the American
14 Recovery and Reinvestment Act. This is termed the
15 Building Energy Optimization Project. It's really
16 exploring how we can use data-driven solutions for
17 targeted and deploying distributed energy resources on a
18 community scale.

19 A part of that is also investigating the
20 business models for deploying those. So, as a CCA, how
21 can we can take advantage of our unique access to data,
22 our unique connections to our local governments and our
23 ability to rate base, for example, to see if we can
24 unlock some interesting new business models for
25 deploying DERs on a scaled level.

1 I just want to mention one other thing before I
2 relinquish the mic, which is that I think it's important
3 as we talk about these great opportunities with
4 partnerships with local jurisdictions, and this
5 increased emphasis on disadvantaged communities to make
6 sure that the policies that we have in place as agencies
7 align with our desired program outcomes.

8 I think that currently there are some existing
9 cost-effectiveness policies, for example, that really
10 constrain the ability of both utilities and CCA
11 implementers of ratepayer funds to effectively serve
12 those communities.

13 We find that they are much more expensive to
14 serve, for a variety of reasons which we can get into,
15 and the current cost-effectiveness policies really don't
16 allow us to do that.

17 I think data access is something that we all
18 know can be a big barrier to some of those local
19 partnerships. And it's interesting to explore ways in
20 which partnerships can come together to increase data
21 access, for example for community-based organizations
22 and local governments who are well-poised to serve some
23 of these communities.

24 Finally, I know this is not something that this
25 Joint Agency has power over, but differing program

1 policy requirements, for example the income requirements
2 in the LIWP and Care programs, related to the ones at
3 the Federal level, make it very difficult to blend
4 resources across those funds and really limit our
5 ability to expand our reach in these communities.

6 So, I just wanted to point out that those are
7 some of the additional barriers we see and I'm happy to
8 answer any questions on our programs.

9 MS. CHARLES: Okay, thank you all. I have some
10 questions, but I would like to cede the floor to the
11 Commissioners to see if you had any questions.

12 CHAIR WEISENMILLER: Well, again, just for
13 context, I liked -- you know, Ron Nichols is always
14 really good at saying we have 47 percent of the DACs.
15 And so, really focusing on issues. I'm trying to get a
16 sense from PG&E, you know, basically, where are the rest
17 of the DACs. Who has the split? Do you know the DAC
18 percentage for PG&E or for San Diego?

19 MR. FERNANDEZ SMITH: For PG&E, I don't know the
20 DAC percentage, specifically. But the way that we think
21 about it on our low-income side is that, similar to the
22 other utilities, a third of our residential customers do
23 qualify for our low-income programs. So, that's about
24 1.4 million.

25 Within the population of the San Joaquin Valley,

1 that's where we focused a lot of our disadvantaged
2 communities' efforts right now.

3 CHAIR WEISENMILLER: How about San Diego?

4 MS. PALERMO: So, this is SoCal Gas. But I do k
5 now -- so, the way the disadvantaged communities are
6 defined is typically by county. So, in San Diego, they
7 do it by different cities because it's a much smaller
8 area?

9 Anything else? Yeah, do you know what
10 percentage of your service territory is DAC?

11 CHAIR WEISENMILLER: Speak into the mic.

12 MS. PALERMO: Sorry, this is -- yeah, come up.
13 This is Mayda Bandy from SDG&E.

14 MS. BANDY: This is Mayda Bandy with SDG&E. Our
15 DACs are pretty small in comparison to how many
16 customers actually qualify for our low-income programs
17 in San Diego, due to how they're characterized.

18 So, I would say for us, when we look at our low-
19 income population in our area we base it more off of, at
20 least for our purpose of low-income programs, off of the
21 200 percent poverty line. And for that we have about a
22 third of our customers on low-income programs.

23 CHAIR WEISENMILLER: Thanks.

24 Tim, do you know?

25 MR. TUTT: Chair Weisenmiller, I don't have

1 those statistics on the percentage of our service
2 territory that's in DAC at this point in time. But we
3 have seen the map, we're aware of CalEnviroScreen. Our
4 low-income and, you know, other people are working with
5 that information.

6 I could get that to you. We do target some of
7 our programs to those specific DAC areas identified in
8 the CalEnviroScreen maps.

9 CHAIR WEISENMILLER: You know, that would be
10 good. Actually, if everyone just wants to submit for
11 the record later, the numbers that would be good.

12 MS. MENTEN: I do have statistics, if that would
13 be useful.

14 CHAIR WEISENMILLER: That's good, yeah.

15 MS. MENTEN: We have about 16 percent. This is
16 not a direct numbers-to-numbers comparison because DACs
17 we counted by parcels within those Census Tract areas.
18 But about 16 percent of the parcels in our service area
19 are within a disadvantaged community.

20 Additionally, about 15 to 20 percent, depending
21 on the region, will qualify for LIWP for that 200
22 percent of federal poverty.

23 And then we count an additional 38 to 40
24 percent, on top of those that qualify, as the middle
25 income within our service area. So, that's 60 to 120

1 percent AMI depending on household size.

2 COMMISSIONER SCOTT: I had a question, which is
3 for Tim and also for Jamie. You both mentioned, Tim
4 that you had heard from your Environmental Justice
5 Panel, and Jamie that you had heard from, I think it was
6 the Energy Consumer Advisory Committee. And after
7 hearing from them, the boards went and kind of took back
8 some of that information and are strategically thinking
9 about how to more effectively address those communities.

10 Can you give us some examples of things that you
11 heard or actions that you're taking to more effectively
12 address the communities?

13 MR. TUTT: Yeah. So, an example of one of the
14 recommendations that we heard was maybe form an advisory
15 committee. And as a result of that Board meeting and
16 that panel, the Board directed our executive director to
17 come back to them, at some point in time, with
18 information as how we can change our efforts and
19 programs to consider more environmental justice.

20 One example might be -- I mean, we do have a
21 strong directive to be cognizant of the local
22 environment, but it doesn't include the words
23 "environmental justice" in it. So, we can focus more on
24 that as we move forward.

25 But I think more importantly the staff that are

1 looking at what everybody else are doing. There's staff
2 that are looking at what our programs are and seeing how
3 we can take ideas from other places and revamp our own
4 ideas to come up with a more comprehensive proposal to
5 get back to the Board with.

6 MS. ASBURY: IID's Energy Consumer Advisory
7 Committee actually has a public program subcommittee
8 that's made of the smaller group, two members from
9 Imperial County and two members from Riverside County.

10 In many situations where we've reviewed our
11 programs with them, our proposed programs, they've
12 offered tweaks to them and made it better, more
13 efficient. They've offered suggestions for things that
14 staff hadn't considered. For example, where we invest
15 our dollars for advertising, or where we get the word
16 out, or where we show up with whatever materials that we
17 have to more further get the information out to the
18 customer base that actually needs it.

19 So, they've been very, very helpful and they are
20 essentially staff's and the board's ears, you know, in
21 the local community, and they do come back with very
22 helpful information.

23 COMMISSIONER MCALLISTER: So, thanks everybody
24 for being here. Mel, for your presentation. That
25 really was great context to set it up. And, you know,

1 just the diversity is, you know, I think self-evident
2 here across all the presentations.

3 So, I have a few questions. I don't want to
4 sort of get them all out right at once. But I guess
5 just an underlying kind of theme that maybe hasn't been
6 stated exactly is really often our energy services, and
7 particularly electricity, natural gas, tend to be kind
8 of Balkanized from the rest of the economy in a given
9 area. And so, you know, partly that's because of the
10 regulatory environment and they sort of have to be.

11 You know, on the hand, often at the Commission
12 we sort of desire, you know, control like the PUC has
13 over their regulated entities.

14 But on the other hand, you know, I think the
15 advantage of having a lighter touch is that the local
16 entities, like IID, like SMUD can do what they need to
17 do within their own worlds, which is a local thing. So,
18 I think there are sort of pluses and minus of both
19 approaches.

20 But I wanted to ask Jamie -- also, congratulate
21 you. Really, even just saying the fact that, wow, we
22 got from our communities things that staff might not
23 have thought of. I mean that, in and of itself, is just
24 a beautiful statement and I'm really glad that you made
25 that. And that shows that you're listening. And I

1 think that's what we need more of in these low-income
2 populations where people maybe aren't used to being
3 listened to. You know, we need to really figure out how
4 to hear them. So, I think that's just a big step in the
5 right direction and kind of an organizing principle that
6 we ought to keep in mind.

7 So with that, I wanted to ask you more about the
8 eGreen Program and how those benefits from a solar PPA
9 are sort of accrued, and then allocated, and sort of
10 what that looks like in real life in terms of what
11 you're thinking of doing?

12 MS. ASBURY: Certainly. So, we did hear from
13 our low-income customers. Over half of our PBC funds
14 goes for rate assistance on bill subsidy. And we're
15 fine with that.

16 But what we were noticing is that we also
17 allocated a portion of those dollars for emergency
18 assistance, for when a customer was at risk of being
19 disconnected.

20 Because in the Imperial Valley, in Riverside
21 County, in our service territory in the summertime that
22 is a life-threatening situation.

23 And we started to see, annually, that that
24 emergency fund was being used more and more. So,
25 clearly, what we were doing wasn't enough.

1 So, we looked at, again, all of the tools we had
2 and the resources available to us, and what the need
3 was. But we didn't just look at what the customer need
4 was. We took a look at what the system need was. We
5 took a look at the financials we had, the technical
6 needs we had, and the customer need that we had.

7 So, we want to attract jobs to Imperial and
8 Riverside County. We want to better serve our under-
9 served customer segment.

10 We're also a balancing authority and a
11 transmission provider. We have a significant number of
12 projects seeking interconnection to the system. Some of
13 them were late stage. They were permitted, they were
14 shovel-ready, and we thought this is a perfect storm of
15 opportunity for us. We have these projects ready to go,
16 but they don't have an off-taker. So, we issued a
17 solicitation and our goal was the faster we can get you
18 online and the least cost you can charge us for a power
19 purchase agreement, with an option for IID to own the
20 facility at the end of year seven, when you've received
21 all the benefits you could have from it, would be good
22 for us.

23 So, we're going to allocate a portion of those
24 megawatts to our low-income customers. So, we looked at
25 what the meter load was, approximately. How much we

1 needed to serve those customers and we were looking to
2 get low cost.

3 Our rates are not significant. You know,
4 they're not significant, but they're still too much for
5 some people at 11.69 cents per kilowatt hour.

6 So, we bid it and there was pretty significant
7 competition. So, what we're looking at is we'll use 30
8 megawatts of the 60 for low-income subsidy. It's a
9 financial settlement on your billing. We have the
10 billing engine, already. We're currently giving that
11 credit.

12 So, now, we're going to invest those dollars
13 into a tangible asset that at a point in time, at year
14 six, you know, IID will pay \$11.57 a megawatt hour for
15 the generation. It's a relatively complicated PPA in
16 terms of a pre-pay by the district, but the levelized
17 cost is less than \$30.00. We thought that was really
18 good. We want to pass that benefit along to our low-
19 income customers.

20 So, we also want to allocate a portion of that
21 for economic development purposes. So, at a point the
22 trajectory of what we're spending in public programs
23 money for the generation is less than what we were
24 giving as an on-bill subsidy. That frees up a whole lot
25 of additional dollars to go into these same people's

1 homes and do direct install of Energy Star appliances,
2 weatherize the home, put radiant barrier in, do better
3 insulation, you know, better windows, better everything
4 that we can.

5 Because at the end of the day, if we're
6 subsidizing, but we're not gaining any efficiencies,
7 you're sort of cutting yourself short on both ends. And
8 that was sort of the construct.

9 So, it's basically a financial settlement on-
10 bill, but it provides us a lot of flexibility.

11 COMMISSIONER MCALLISTER: So, that's a really
12 interesting business model. So, maybe others have
13 questions, you know, deeper questions about that.

14 I wanted to broaden a little bit the question
15 about integration. You know, Beckie, you mentioned
16 integration with health and safety programs and, you
17 know, sort of how -- there are, I know, many local
18 jurisdictions with an older housing stock have funds
19 that they pay into fixing up, just window replacement,
20 and just basic maintenance of homes and stuff in low-
21 income communities.

22 And maybe talk about some of the barriers and
23 opportunities you see there to try to pool resources and
24 really do that kind of one-stop shop approach.

25 And then I'm interested in anybody's comments

1 about what they're doing in their worlds on this.

2 MS. MENTEN: Yeah, I think the one-stop shop
3 approach that we really rely on these days came from our
4 experiences serving some of these disadvantaged and
5 hard-to-reach communities. It really can make a
6 difference when you leverage a bunch of different
7 streams of funding and resource conservation
8 opportunities to bring someone into the payback period
9 that makes sense for them, or bring it over the line.

10 For our small commercial program, for example we
11 recently partnered with the City of Richmond who had
12 some funds available to help close the gap between what
13 we could pay for with rebates, the ratepayer funds, and
14 what the City was willing to pay for to actually help
15 some of these small business get over the line.

16 And we're talking businesses, of the businesses
17 we touched, 58 percent of them spoke English as a second
18 language. We were able to go in with Spanish-speaking
19 materials. We have staff members on our team who speak
20 Spanish, who were able to go in and help make the pitch,
21 and present the availability of funds from the
22 government which provides some credibility, as well.
23 It's an important part for getting the communities to
24 trust you.

25 And through that, within a matter of a few

1 weeks, we were able to enroll over 73 businesses. And
2 we're talking mom and pop convenience stores across the
3 commercial corridors in the City of Richmond.

4 So, I really think it's a proven model that
5 partnering with those local jurisdictions helps provide
6 a sense of credibility, trust, and can provide resources
7 necessary to close the gap.

8 Again, I want to reiterate that there are some
9 policy barriers that make it challenging to move forward
10 with this kind of thing on a regular basis. Hard-to-
11 reach are harder to serve. They don't have as much cash
12 flow available. They aren't as willing to take on debt,
13 perhaps, as some of the larger commercial businesses
14 that you may see. And as a result, it just takes higher
15 incentive dollars to serve them.

16 There are a couple quick fixes. For example,
17 switching from the TRC to the PAC in ratepayer programs
18 might be one way, at least in the context of low-income
19 to help align some of those policies with program
20 outcomes, as I was saying.

21 Another, for example, would be the net-to-gross
22 associated with hard to reach. Allowing for a higher
23 net-to-gross ratio removes the disincentive for
24 utilities to spend more dollars that it takes to
25 translate materials, to get Spanish-speaking folks out

1 on the streets to really just help make sure that
2 there's alignment and that disincentives are out of the
3 way.

4 One last thing I'll mention on the residential
5 side is that when you're dealing with single-family and
6 multi-family homes, there are a ton of resources
7 available and a ton of different pockets, and it takes a
8 lot of administrative burden to bundle those programs
9 and to get them to work together. And that's even where
10 the policy barriers allow them to be bundled. When
11 you're dealing with 200 percent federal poverty as an
12 income requirement in one versus 60 to 80 percent AMI in
13 another that can be drastically different. And 200
14 percent federal poverty is very low, for many of
15 California communities, as well, so many homes don't
16 even qualify.

17 So, access to GAP funding, aligning between
18 policy barriers really help to make it more possible to
19 align those funding streams. And understanding that
20 when you do that there will be a slightly higher
21 administrative burden which is, hopefully, offset by
22 less touch points to achieve the same resource
23 conservation.

24 COMMISSIONER MCALLISTER: Thanks.

25 Tim, do you have any comments on that? Yeah, I

1 noticed you talked about, really, some serious targeting
2 and overlapping programs that you were trying to
3 coordinate, and I'm interested in knowing more about
4 that.

5 MR. TUTT: Sure. I'll provide more information
6 and some additional targeting and coordination efforts.
7 I mean, we're partnering with a variety of organizations
8 that help our local customers that are disadvantaged in
9 ways that are not energy related, as well.

10 We're partnering with Rebuilding Together. They
11 help fix up older homes. We have a new partnership with
12 Habitat for Humanity to help fix up the roofs of homes,
13 so that they're eligible, then, for solar.

14 And then, in terms of partnering with the State,
15 and we partner with the Community Services and
16 Development, in their Low-Income Weatherization Program,
17 and with Grid Alternatives.

18 And that program, we send out direct mailings to
19 eligible customers and they sign up. And we will do a
20 deep energy-efficiency retrofit for those customers.
21 And then, the solar is funded by the Low-Income
22 Weatherization Program at the State.

23 And those customers, the roofs have to be
24 adequate, so it helps to bring the roofs up to snuff
25 with our other partnership. And the customers have to

1 be located in a DAC and be on the EAPR rate. So, it's
2 really focused on these low-income, DAC communities.

3 We're the first large utility, I think in the
4 State, to move to opt-out time-of-day pricing. And
5 that's going to start in 2019. I mean, it's a good
6 move, I think, but it's of some concern what the impact
7 will be on some of our lower-income customers that may
8 have inefficient air conditioning and heaters. And this
9 a hot area, like IID.

10 So, we have a focused pilot program, several of
11 them, that are aimed at getting ready for that TOD
12 rollout for these customers, and really looking at going
13 out to these customers and doing an auditing, repairing
14 and replacing their heating and cooling, and making it
15 more efficient, weatherization, and replacing the
16 refrigerator. So that that switch to time-of-day
17 pricing will not be as significant for them.

18 And we've added \$10 million to our low-income
19 program as part of that effort for this year. So, we're
20 really focusing on that.

21 I think the other things I'd mention is, you
22 know, you may have heard of our pilot, the Natural
23 Refrigerant Program, incentive program. That's where
24 we're incentivizing refrigeration operations, or
25 customers that have refrigerators to use natural

1 refrigerants, rather than the problematic climate
2 refrigerants.

3 And we provide an incentive bonus in that
4 program for projects located in DACs. And the intent
5 there is to encourage the continued existence of
6 smaller, independent grocery stores in areas that might
7 otherwise be food deserts. So, we're going a variety of
8 things on that front.

9 COMMISSIONER GUZMAN ACEVES: Thank you.

10 COMMISSIONER MCALLISTER: It looks like maybe
11 somebody else has comments on this, but just quickly.

12 MS. PALERMO: Sure, this is Erin from SoCal Gas.
13 I just wanted to highlight a couple of things about our
14 partnerships and the way we've also been leveraging
15 different sources of funding to support our low-income
16 customers.

17 So, the program I mentioned, with our low-income
18 ESA Program, partnering with LADWP, so the goal of that,
19 and we also partner with other POU's in our territory,
20 like City of Burbank and Glendale Water and Power.

21 And the goal is to offer a very simplified, one-
22 stop approach for our customers so that they can get the
23 suite of gas, water, and electricity measures without
24 having to get multiple touch points from all of the
25 utilities.

1 And so, the LADWP partnership we're really
2 expanding and it's been really successful so far, with
3 just half of 2017. We have 1.2 million -- or, sorry,
4 1.2 megawatt hours of savings, 51,000 therms, and 26
5 million gallons of water saving. So, it's being very
6 successful.

7 And then, with our City of Southgate project,
8 for our barriers removal, that's when we find asbestos,
9 or other problems in the home that prevent participation
10 in the ESA. We're leveraging the Community Development
11 Block Grant Funding through the City of Southgate. So,
12 it's a little expensive to treat these homes, it's about
13 a thousand dollars per home. But in leveraging that
14 other source of funds, we're able to do this pilot and
15 see how successful it can be. So, thank you.

16 COMMISSIONER SCOTT: All right, I have a quick
17 follow up on that specific point about ESA. I'm not an
18 ESA expert, but you mentioned things like asbestos, and
19 I think you mentioned leaks, previously.

20 Do you have a sense of how many of the
21 households that you would like to help through ESA are
22 knocked out of the program because they have asbestos or
23 some of these other issues that you raised?

24 MS. PALERMO: Yes. In our territory, we find
25 about 40 percent of the households we try to treat have

1 these barriers.

2 MR. FERNANDEZ SMITH: For ESA, that's a number
3 that we can find out easily. I don't know exactly those
4 specific households that have that barrier. But I do
5 want to build on some of those partnerships that SoCal
6 Gas was talking about.

7 We also are looking at where can we start to
8 expand those partnerships, both to extend maybe our ESA
9 or CARE signups, but also as we think about residential
10 rate reform how are we working with these trusted
11 organizations in those communities to be able to share
12 more about rates are changing, here are some tools and
13 tips that are coming forward. And so, there's a number
14 of community organizations that we work with.

15 We've also found that some of our work with
16 embassies, when folks are coming in as newcomers, and
17 are looking to set up their utility, or just get
18 themselves situation, having that as a background
19 playing as a, like, did you know about CARE, did you
20 know about these opportunities from the utilities, we've
21 found some signups there, as well.

22 MR. RENFRO: And just wanted to mention for
23 Edison, in terms of one-stop shop approach, we've been
24 working with the Valley Clean Air Now group for about a
25 year. And we've found that at the Valley Clean Air Now

1 events that a lot of our Edison customers qualify for an
2 array of other programs, such as CARE. So, that is
3 something that we are working on and we're just now
4 building our approach on this concept.

5 COMMISSIONER GUZMAN ACEVES: So, I think going
6 back to one of Mel's points on the interest in our
7 alleviation of pollution, and I've heard some of you
8 talk a little bit about different overlaps that you do
9 use the DAC mapping tool for to focus that investment.

10 Certainly, I think in the transportation
11 electrification efforts that we're a part of, and many
12 of you are a part of, the alleviation of pollution is
13 very direct.

14 And this kind of goes to something that Jamie,
15 from IID, was kind of mentioning in terms of this -- on
16 the generation side and on the procurement side of
17 generation when you're going from a distributed
18 generation option to maybe a wholesale option.

19 And I have a very specific question on, and
20 we're obviously in the middle of certain proceedings on
21 how to grow distribution generation options in
22 disadvantaged communities, but the grid is getting
23 cleaner.

24 And in terms of alleviating pollution, are any
25 of you looking at the displacement -- one of the things

1 we learned in the IRP efforts is the combined cycle gas
2 turbines, and they're very particular contribution to
3 pollution. Do any of you have strategies to directly
4 replace those plants, particularly for RA purposes, as
5 well?

6 MR. RENFRO: So, for Edison, we do have our
7 hybrid enhanced gas turbine effort. This is a first-of-
8 their-kind gas turbines that are for two of our peakers
9 and it does supplement operational capabilities with
10 energy storage systems.

11 We have two projects already in operation. One
12 is Center Peakers, and that's in the City of Norwalk.
13 We also have Grapeland's, and that's in the City of
14 Rancho Cucamonga.

15 We are looking at expanding that to an
16 additional three peakers and we're in the middle of
17 defining the business case for that effort.

18 Just also will note that at least within the
19 EPIC Program, the utilities are barred from generation,
20 so we focus on other efforts, such as the enhanced gas
21 turbine that I just mentioned. And it's a really neat
22 project.

23 Edison Electric Institute did award the enhanced
24 gas turbine for it, and it's an award for this. So,
25 it's pretty neat.

1 MS. ASBURY: IID is in the process of
2 decommissioning a couple of its units that serve the
3 Coachella Valley and we are issuing a solicitation for a
4 replacement resource. And we're limited on the number
5 of hour we can run a gas-fired unit there. So, clearly,
6 we are going to be looking at what the best resources
7 proposed to us is so that we can work within those
8 parameters. So, we're clearly looking at or we're
9 thinking that probably what we'll get back is some form
10 of a renewable with a storage component to it. And
11 we're excited to replacing those units, as well.

12 MR. TUTT: Yeah, in SMUD's case, in the long run
13 we think about replacing those units. In the short run,
14 we need them for resource adequacy. But we are
15 concentrating on trying to understand how we can use
16 them less.

17 And as an example, several of our facilities are
18 cogeneration facilities that also supply steam to hosts,
19 customers. And earlier this year we electrified the
20 boilers in one of those hosts so that at times, when we
21 cannot operate our power plant in the market, and we'll
22 be able to do that. Whereas, previously, we had to
23 supply steam to this host.

24 And we've done a similar effort at another one
25 of our steam host customers to allow us more flexibility

1 in operating our power plant there. And also, at our
2 big, combined cycle power plant we've added some
3 flexibility so we can use it less.

4 We do anticipate that as we add more renewables,
5 in the long run that we'll be cutting back the hours of
6 those facilities more and more.

7 But one thing I would say is, in addition to
8 those stationery source emission, obviously mobile
9 source emissions are extremely important for these
10 communities.

11 And we're helping to partner with, I guess the
12 City of Sacramento, and VW, the Sacramento Green City
13 Effort. So, we support, for example, the Sacramento
14 Municipal Quality Management District, and Housing and
15 Redevelopment Area DAC Car Share Program as part of that
16 effort.

17 We are supporting a community electric school
18 bus project. And we have an incentive program to
19 provide EV charging infrastructure to multi-family and
20 workplace customers in our service territory. So that
21 some of these multi-family residents, who are often
22 lower-income, can take advantage of the green car
23 revolution.

24 CHAIR WEISENMILLER: Actually, just following up
25 on our observation and Martha's, and wanted to sort of

1 tee up more for Edison. You know, ARB talked a lot
2 about mobility options, clean mobility options for low-
3 income, which is very important.

4 The flip side of that is that much of the
5 pollution is from mobile sources, and a lot of it is
6 from the goods movement along the freeways, in Southern
7 California, which go through a lot of the DACs.

8 And so, you know, if you're really trying to
9 reduce pollution impacts in those areas, you have to
10 figure out what to do about goods movement.

11 And I know it's, again, near and dear to Ron
12 Nichols' heart. But I mean, what can we do there?

13 MR. RENFRO: So, for our current transportation
14 electrification proposals, two priority review projects
15 really focus on the Port of Long Beach. And that is
16 important because the Port of Long Beach is a major
17 contributor to a lot of the particulate matter that
18 affect a lot of the disadvantaged communities that are
19 along that corridor that you had just mentioned.

20 Right now, we also have a proposal for medium
21 and heavy duty make-readies that will also help with the
22 particulate issues that we have in the disadvantaged
23 communities.

24 Specifically, though, in terms of a corridor
25 proposal, that is something that Edison is looking at

1 for the next iteration of the transportation
2 applications.

3 Initially, that was something that was thought
4 about as a proposal, but we realized that we needed to
5 further work with a lot of our local partners to make
6 sure that we get this right because it is so
7 instrumental to helping disadvantaged communities, and
8 helping the State achieve its environmental and energy
9 goals.

10 MS. PALERMO: Sure. Just to follow up. So, you
11 asked what we can do immediately, and one of the areas
12 that SoCal Gas has been pushing is for deploying ultra-
13 low NOx heavy duty vehicles in transportation corridors.
14 Those vehicles can reduce smog by 90 percent particulate
15 matter by 100 percent.

16 I mean, in addition we can have compressed
17 natural gas stations along those corridors to displace
18 diesel delivery trucks.

19 So, the natural gas technology for these heavy
20 duty vehicles is available now, and we've been working
21 Port of L.A., and other ports in the area to work
22 through these issues and get this deployed.

23 MR. FERNANDEZ SMITH: And on the PG&E side, I'm
24 less familiar with that work. Just I don't oversee
25 that. But I do know that they've put forward an

1 application, back in January, that's very similar to a
2 fleet-ready idea of how do we take some of the heavy
3 diesel emitters and electrify those, and change those
4 over. So, I do know that PG&E's in conversations and
5 has put forward some proposals about that. But I'm not
6 able to go as far in-depth as some of my colleagues here
7 on those.

8 CHAIR WEISENMILLER: Certainly, if you could
9 supplement later that would be good.

10 MR. FERNANDEZ SMITH: Uh-hum.

11 CHAIR WEISENMILLER: You know, again, certainly
12 the South Coast has done studies that indicate that if
13 you live near freeways in Southern California, the
14 chance of your children getting asthma are relatively --
15 you know, 10, 20 percent. It's really a scientific
16 fact.

17 So, that gets back to how do you really address
18 the air quality impacts of the goods movement. You
19 know, with the move to cleaner fuels. If you really are
20 trying to deal with pollution, that's something we have
21 to move on pretty quickly. At the same time, goods
22 movement is a key part of your economy there. So, you
23 know, we have to figure out a sustainable way to do that
24 as part of these overall programs.

25 MR. CAMACHO: So, the Commissioner spends a lot

1 of time thinking about electrification because that's
2 going to have an impact on the share of renewables and
3 the demand. So, I know SMUD has been doing some stuff
4 on the -- you know, giving a Level 2 charging station,
5 or three-year free electricity.

6 Do any of the other utilities have incentives
7 for, you know, that could be applied to DACs for EV
8 adoption? And also, how are you preparing for the
9 increase on the load? You know, ARB has stated that
10 around 4.2 million zero emission vehicles and plug-in
11 hybrids are going to be needed if we're to meet our
12 goals. So, how is that impacting your analysis?

13 MS. MENTEN: At MCE, I know you said utilities,
14 but I can speak to that a little bit. It's okay.

15 We do have rebate programs for charging station
16 infrastructure to help electrification of particularly
17 residential vehicles. We're working on a commercial
18 model because with a predominantly renewable energy
19 load, like we have, we do find that the increase,
20 particularly in residential charging, will cause more
21 pressure in those evening short positions that we find.

22 So, at the same time as we're working to promote
23 electrification, because it's actually of high interest
24 to our customers, and obviously a necessary component of
25 greenhouse gas mitigation, we're also working to see if

1 we can create control programs that encourage customers
2 to charge at different times, promote workplace charging
3 to really have a better match at that duck curve between
4 production and use with electric vehicles. And also,
5 exploring different rates, different tariff programs
6 that we can use to help encourage some of that, as well.

7 We're tracking some of the DERPA programs at the
8 CAISO to see if there can be any additional funding
9 streams that we can aggregate and access to help offset
10 the costs of charging infrastructure, as well. But I'd
11 say those are developing markets right now, so it's a
12 little soon to hear.

13 I wish I could have my colleagues from Sonoma
14 Clean Power and Lancaster Energy here, as well, because
15 they've done some really phenomenal things on EV
16 infrastructure, too.

17 Sonoma recently had an EV incentive program
18 where they provided an additional incentive for folks
19 who are CARE qualified to try and make sure to direct
20 some of those funding specifically to income-qualified
21 participants.

22 And Lancaster Energy is working, actually, on
23 electrifying a hundred percent of their bus
24 infrastructure within their City. And Lancaster is in a
25 unique position because they're municipal organization

1 is also their CCA, as opposed to the JPA model, which we
2 are at MCE. And that allows for really interesting
3 integration, for example between ownership of public
4 feets -- or fleets, excuse me -- and rate design to help
5 offset some of the cost and really pursue some
6 innovative models.

7 MR. RENFRO: For Southern California Edison, we
8 have, as I had mentioned a little bit earlier, the Low
9 Carbon Fuel Standard Reward Program, where customers are
10 provided \$450 to purchase an EV vehicle.

11 We also have a couple of different priority
12 review projects that are also geared toward increasing
13 the ownership of the electric vehicles.

14 And I think you had mentioned, also, what are
15 the utilities doing to prepare for these additional
16 loads, for these vehicles, or just electrify
17 transportation in general.

18 So, at least within our EPIC program, you know,
19 we're taking a look at doing demonstrations utilizing
20 both the charging infrastructure, along with energy
21 storage to see what we can do about turning these loads
22 right now into a resource in the future, so that it
23 would actually help utility planning efforts.

24 So, most of that is within the EPIC program on
25 the demonstration side.

1 But really quick, I just wanted to mention that
2 in terms of really getting additional gains for
3 disadvantaged communities for clean energy products, at
4 least within EPIC I see that as more of being market
5 facilitation funding. Because utilities can do a lot of
6 demonstration work, thinking about how circuits could
7 look in the future for different customers. But if we
8 don't do anything, really, in terms of moving the needle
9 on actual deployment of these clean energy resources, I
10 just don't see that we're getting much closer in helping
11 these communities.

12 That's just a personal aside and just wanted to
13 quickly throw that in there since this issue is kind of
14 near and dear to my heart, having grown up in Tulare and
15 Fresno Counties.

16 COMMISSIONER SCOTT: Yeah, I would just add to
17 that. We are keenly aware of transportation
18 electrification and how important it will be to
19 achieving the climate goals, and also to our Federal
20 Clean Air Standards.

21 We did have two workshops, earlier in the IEPR
22 session, that were focused, specifically an entire day
23 on light duty, and many of the questions that Emilio was
24 looking at, and then a half-day that we did, where we
25 did a deep dive into the medium duty and heavy duty

1 side.

2 So, I know this part's focused a lot on the
3 renewable energy and energy efficiency for customers.
4 But we are also keenly aware, and also with the goods
5 movement discussion as well. So, we will continue those
6 as part of the IEPR, for sure.

7 CHAIR WEISENMILLER: Yeah, I was just going to
8 follow up. I think Edison really took a leadership role
9 in the post-San Onofre by trying to focus on the sort of
10 San Onofre footprint. Particularly Orange County, in
11 terms of how to do a preferred resource procurement.

12 It's probably time to start thinking about a
13 similar-focused effort to try to do procurement in the
14 DACs, you know, or for preferred resources.

15 MR. RENFRO: Yeah, that's something that we're
16 taking a look at right now, specifically in the Oxnard
17 area, to see if we can leverage some of the learnings
18 that we've had in Orange County, and provide that in
19 Ventura County for some of those future procurement
20 issues that we see.

21 CHAIR WEISENMILLER: Good. No, certainly,
22 again, we're not going to get into issues that are
23 pending before us. But again, I would certainly
24 encourage you to do -- you've got 40 percent of the DAC
25 so, you know, that's a lot of area there to do such

1 pallets.

2 But I would note, though, that the last time we
3 got a report from Edison on the Orange County stuff,
4 there was some implementation problems. So, we
5 certainly need to step that up to get it back on track
6 and at the same time expand that approach.

7 COMMISSIONER GUZMAN ACEVES: I just wanted to
8 know how Erin was leveraging the Olympics for
9 infrastructure needs? And certainly would be interested
10 in helping conversations with the administration on
11 that.

12 MR. RENFRO: Yeah, that is something that we're
13 definitely taking a look at. Initially, we wanted to
14 include it as part of our EPIC 3 application for our
15 Smart Cities Project.

16 Now that the timeline is a little bit further
17 out, we may focus on shorter-term needs. And probably
18 looking at what we can do in the City of Inglewood,
19 being that we have two major football teams that are
20 putting together a very large complex in that City. And
21 parts of that City are still very much still
22 disadvantaged communities.

23 COMMISSIONER MCALLISTER: Okay. Well, I split
24 my questions up into two tranches. So, just a couple
25 more.

1 You know, Ashley, you mentioned SB 375. And I
2 guess I'm wondering, you know, in the spirit of
3 integration, again, these conversations around
4 disadvantaged just have to be integrated across other
5 things than just energy. And I think to take advantage
6 of all the resources that are out there and just
7 optimize the conversation.

8 So, I guess my question is how much are you sort
9 of driving in each of your areas, or at least aware of
10 this confluence of conversations around land use
11 planning, and transportation, you know, 375 issues, and
12 the energy issues directly related to -- I mean, SB 375
13 is not inherently a disadvantaged community
14 conversation, but it is, really, I mean if we think
15 about it.

16 So, you know, are you coordinating with those
17 local governments, and the COGs, and all the entities
18 that at the regional and local levels are doing the 375
19 work? And maybe get your thoughts, also, on how we
20 could plug into those conversations more effectively
21 across the state.

22 Ashley, if you want to comment on this, too,
23 that's more than welcome, thanks.

24 MR. TUTT: I guess I'll just say that SMUD's
25 certainly aware of the 375 targets. We submitted a long

1 letter, a few years ago, when the 375 targets were first
2 established. We haven't commented on the current
3 revision of those targets because when we looked at it,
4 it didn't seem that there was anything that really
5 caught our eye as problematic, I would say.

6 But we do think that it's important to focus
7 some of this effort on disadvantaged communities. And
8 as you said, it's not really been a 375 focus in the
9 past.

10 I'll just mention, though, we have an internal
11 proposal, now, which I don't know will make to the end
12 of the line, but it's an internal proposal to -- it's
13 called the North Franklin Community Energy Project. And
14 we're trying to, as a pilot project, prove that we can
15 demonstrate a community-owned and community-shared solar
16 program on urban in-fill sites can provide cost
17 effective economic and environmental benefits in that
18 area, without harming other ratepayers. So, that's the
19 kind of effort that we're hoping to do more of.

20 CHAIR WEISENMILLER: I just wanted to follow up
21 with Beckie a second. I mean, when we did the original
22 Barriers Report we got into this question of the
23 different definitions. And at some point, the more we
24 thought about it, it was like, okay, step one, go back
25 and get federal legislation. Well, that's probably not

1 something that's going to be successful right now.

2 Step two, you know, do we then try to conform
3 the California, you know, get legislation to conform to
4 the California definitions. It was a common thing of
5 saying it's a big issue. But just in terms of taking it
6 on, you know, particularly given the federal situation,
7 just struck us as pretty hard to do. You know, but we
8 recognize it's a barrier but it's just like, okay,
9 realistically what's doable.

10 MS. MENTEN: I agree that this issue will become
11 decreasingly important as the federal budgets are cut
12 which limit the amount of resources that we can leverage
13 in those federal funds. But I do want to point out that
14 we're talking about a difference of a \$35,000 income,
15 for 200 percent federal poverty, versus in some places
16 \$80,000 income, which is AMI.

17 So, that creates a very big gap between the
18 funding that we, as a State can provide, because we have
19 the more stringent income qualification standards here
20 in California, at that 200 percent federal poverty
21 level. And, really, whatever we can do to provide
22 access to these communities, who are going to be
23 particularly hard hit by some of the budget decisions of
24 the current administrative I think would be of benefit.

25 So, I realize it's a barrier, but I just want to

1 point out that it's not an insubstantial one.

2 MS. CHARLES: I just wanted to mention we're
3 almost out of time, so is it okay if this --

4 COMMISSIONER MCALLISTER: I just have one more
5 question actually, yeah, so I won't keep people. I see
6 we have at least two minutes left.

7 MS. CHARLES: Okay, two minutes.

8 COMMISSIONER MCALLISTER: So, along a similar,
9 sort of a parallel line I wanted to ask Beckie, you
10 know, you mentioned the Program Administrator Cost Test,
11 and this runs the risk of getting into weeds, and there
12 are too many weeds often, and I think we sort of -- the
13 weed whacking gets to be a pretty large task, just in
14 and of itself.

15 But, you know, from my perspective in energy
16 efficiency, and if you look at other resources that
17 we're developing along these lines, that overlap with
18 the low-income and disadvantaged conversation, like the
19 AB 758 conversation, you know, the existing buildings,
20 getting energy performance in our existing building
21 stock.

22 The solution is definitely going to be
23 leveraging private capital. So, we have to get as much
24 private capital into these conversations as we can. And
25 the benefits often are not energy benefits, right.

1 People do these upgrades for myriad reasons. It's not,
2 actually, even primarily to save energy or to reduce
3 their bill, although that's important particularly for
4 low-income.

5 But it's often about comfort, and health and
6 safety, and all these other things that we talk about,
7 right. So, there's a huge, huge variety of benefits
8 here.

9 So, you know, from the point of view of, okay,
10 what policies can we adopt to encourage private
11 investment and encourage our programs to leverage, and
12 to incentivize and to encourage that private investment?

13 You know, could you just maybe give us a couple
14 sentences about why the PAC test and the TRC are very
15 different along those lines?

16 MS. MENTEN: Yeah. So, just briefly, the
17 Program Administrator Cost Test looks simply at the
18 dollars that the utility puts in to accomplish a unit of
19 energy savings. Whereas, the Total Resource Cost Test
20 looks at the entire cost of a project, including what
21 the participant has paid which, in some cases, may be
22 funded by private investment.

23 Therefore, you're looking at the overall impact
24 versus just the utility investment. Using just the
25 utility investment, some people think makes more sense

1 because those are where that boundary should be drawn
2 around the investment the State is making. And I do
3 think it would enable greater private investment.

4 I want to mention that the complication of
5 utility rebate programs, I would say ours as well, and
6 many of the requirements that come along with ratepayer-
7 funded programs make them not necessarily a great match
8 for private capital investment. Because private capital
9 investment really favors deal flow and high transaction,
10 low transaction costs, and a lot of transactions.

11 We've seen that with PACE. A lot of the PACE
12 programs that happen throughout the State don't happen
13 within the realm of utility rebate programs.

14 And when we lose access to those deal flows, we
15 lose access to policies that can help really make sure
16 that we're getting the best bang for our buck out of
17 those projects, as well.

18 So, I think your point is a very good one. We
19 know we can't get there without the private capital.
20 But in order to get that private capital we need to make
21 it as easy as possible for that private capital to
22 engage in those projects.

23 And part of that, also to drive the policies we
24 need, involves finding ways that we can get private
25 capital to customers who may have less than ideal

1 credit. And that can be an area where credit
2 enhancements and other ratepayer dollars can really help
3 invest and drive programs. The simplicity and access to
4 capital are really important.

5 COMMISSIONER MCALLISTER: Thanks.

6 MS. CHARLES: Are there any final questions?

7 Okay. Well, I wanted to thank the Commissioners
8 for these thought-provoking questions. And thank you to
9 the panel. It is great to hear about all of the work
10 you're doing. And I look forward to continued
11 discussions. Thank you.

12 (Applause)

13 COMMISSIONER SCOTT: I wanted, just before we
14 break for lunch, I did want to let folks know that the
15 link for the Disadvantaged Advisory Group is up and
16 running. It's on our webpage. And maybe we can provide
17 that for you after lunch.

18 We really are looking very much forward to your
19 comments on that.

20 CHAIR WEISENMILLER: Yeah, and for those of you
21 that have advisory committees, you might encourage some
22 of your members to apply.

23 MS. RAITT: All right, we'll be back at 1:00
24 then. Thanks.

25 (Off the record at 12:03 p.m.)

1 MS. RAITT: So for this afternoon, we have a
2 panel on small business -- excuse me.

3 First, before our panel, excuse me, is a
4 presentation on Consumer Protection in the Clean Energy
5 Economy with David Fogt from the Contractors State
6 License Board. And we can go ahead and get started.

7 MR. FOGT: Good afternoon. I'm David Fogt. I'm
8 the Registrar for the Contractors State License Board,
9 and it's a pleasure to meet with you this afternoon.

10 In preparing for this presentation, I met with
11 the public affairs officer that meets with consumers on
12 a daily basis. And I asked her, "What are the barriers
13 that you're seeing with your consumer scam stoppers and
14 low-income consumers contracting for energy efficiency
15 projects?" And she brought forward three of them, and
16 that's what I'm going to talk about for a few minutes
17 this afternoon.

18 One is that we do have unscrupulous individuals
19 that are nit the marketplace. We need to identify and
20 remove them. The majority of contractors do a great
21 job. But if you have contractors that are
22 misrepresenting the work, it can put a cloud on the
23 industry and discourage people for contracting for the
24 projects that they certainly are entitled to and would
25 benefit from.

1 We also have contract violations that exist that
2 we can correct. I believe that the Contractors Board
3 could work closely with the Energy Commission to address
4 some of those inconsistencies. That would give the
5 consumers more confidence.

6 And then finally, many consumers do not
7 understand the programs and resources that are available
8 to them.

9 And with that, I just want to give you a little
10 background.

11 In 2016, we noticed an incredible increase in
12 solar-related complaints. Our Board directed me to
13 establish a Solar Task Force consisting of investigators
14 in our Public Affairs Office. And you'll see the
15 complaints that were received and what we were able to
16 achieve.

17 One of the goals of the Task Force is to meet
18 with different state agency partners and industry groups
19 to identify ways to reduce the number of complaints,
20 increase satisfaction and, also, when a consumer has
21 been harmed, to provide them financial redress. And
22 you'll see on this slide that we were able to recover
23 over \$600,000 for consumers that had been financially
24 harmed.

25 In 2017, we're continuing to receive about 40

1 complaints per month. We'd like to see that reduce to
2 probably 25. We're always going to have consumer
3 complaints, but we do think we're receiving too many.
4 And we met with the solar industry and other
5 stakeholders to look for ideas on how we can reduce
6 those complaints. And I'm going to quickly share with
7 you this afternoon some ideas that we came up with.

8 This is an overview of the type of complaints
9 that we're receiving. And one is regarding the
10 misrepresentation regarding, we call it, the green-
11 funding complaints where a consumer may be led to
12 believe that the solar system will be paid for by their
13 existing property taxes. And when they get their
14 property tax bill, they realize that it's gone up
15 substantially.

16 We have a lot of -- we were having, it's been
17 reduced, though, Power Purchase Agreement complaints. A
18 lot of the low-income consumers are able to participate
19 in the CARE Program and other programs where a kilowatt
20 hour of power maybe costs them \$0.10 to \$0.11. And when
21 they sign up for these Power Purchase Agreements,
22 they're paying as much as \$0.18 a kilowatt hour, and
23 that's a shock to them when they get their bill. And
24 they claim they didn't realize that when they entered
25 into the contract.

1 And then lease agreements were problematic.
2 Back in 2016, we somewhat corrected the behavior of some
3 contractors and misrepresenting what the lease payments
4 will be and how they escalate. We have one consumer in
5 Visalia that her house was worth \$200,000, and she
6 signed up for a lease that would require payments
7 exceeding \$150,000, and so it was quite staggering. And
8 she couldn't make the lease payments, and the contract
9 terms were not clear.

10 Now why is this happening? The next slides kind
11 of give you an idea of what we're seeing.

12 We have contractors, some unlicensed, some
13 salespersons that aren't registered. For home
14 improvement, you've got to be registered or it's a
15 misdemeanor. In the event your salesperson is not
16 registered, you're not entitled to collect on the
17 contract. You don't have a security interest in the
18 contract itself.

19 And one thing I think the Energy Commission
20 would be interested in is that many of the contracts are
21 not in the language that the customer speaks, and that
22 is a violation.

23 So there's an opportunity here to make sure that
24 contractors are licensed, the salespersons are
25 registered, and that the contract is in the appropriate

1 language.

2 Something else that we're observing is that they
3 don't -- contracts don't always include the three-day
4 right to rescind.

5 And other contract requirements are not being
6 adhered to. And one that's very troubling is when it's
7 -- we call it the green funding-type contract where the
8 funding company or the lender pays the contractor
9 directly, rather than the lender paying the consumer
10 correctly. And that can be a problem when they're paid
11 in advance of the work being done. And we do have a
12 couple of contractors, unfortunately, that were paid in
13 full and didn't finish the contracted work.

14 This slide shows some opportunities that we've
15 been exploring, and that's to work with the different
16 groups. We hosted a meeting similar to this in our
17 building in Sacramento to talk about how we can share
18 information with PACE, with HERO, with some of the other
19 funding companies, so that the information is out there
20 for the contractors to use when they're selling these
21 contracts to make sure they're doing it appropriately so
22 that, again, that's really my thing, there's confidence
23 in the industry and we can expand the number of energy
24 efficiency projects that are underway in California.

25 These are some of the resources that we have.

1 We do have educational materials. We have a Complaint
2 Form, I'm going to show you in a minute. We have a
3 Statewide Investigative Fraud Team. If we have somebody
4 that's unlicensed actively performing a contract, all
5 you need to do is call that lead in and we'll respond to
6 it. But perhaps most importantly, we have a Mediation
7 and Arbitration Program. So you become aware of a
8 consumer that's been financially harmed or is unhappy
9 with the contracted work, we can help to resolve that.
10 And part of this program is to make sure that we work
11 with the contractor to correct any deficient business
12 practice they may have, so they can move forward in a
13 positive manner.

14 This is a Complaint Form, available online. It
15 can be filed electronically.

16 And this is the last slide. And what I really
17 wanted to close with is just to explore some of the
18 opportunities that we have to work together. I talked a
19 little bit about contractors and the home improvement
20 salespersons that are really the first ones that are out
21 there in somebody's home.

22 I think we have an opportunity to conduct maybe
23 a joint webinar. We have a list of contractors that are
24 doing these energy efficiency projects. We know who
25 they are. We could provide them to participate in a

1 webinar to talk about the programs that exist for
2 consumers, so that they could use these programs,
3 qualify to get the work done, but make sure that the
4 contractors are licensed, the salespersons are
5 registered, and the claims that they're making or the
6 statements they're making in somebody's home are
7 approximately and they're not using predatory practices.

8 We also have a mailing list of over 400,000
9 individuals that are on it. So if you have information
10 that you would like for us to get out, we can certainly
11 use that as a tool. And we have industry bulletins that
12 we routinely send out. So it's all about, I think,
13 making the contractors aware of the programs.

14 We can also use our Public Affairs Office. And
15 I mentioned at the opening of this presentation, we have
16 one of our employees that does consumer scam stoppers
17 daily with legislators. And so she can give out any
18 information that you may have to let consumers know
19 about the programs that are available to them.

20 And that concludes my presentation. I'd be
21 happy to answer any questions you may have.

22 CHAIR WEISENMILLER: Yeah. You had indicated
23 things, that the number had jumped considerably. What
24 was your baseline a couple of years back --

25 MR. FOGT: Well, we went back --

1 CHAIR WEISENMILLER: -- in terms of complaints
2 now?

3 MR. FOGT: -- to 2015. And what it bounced --
4 or it jumped from about 20 to over 40. And so, you
5 know, it looks like 100 percent increase. It was just
6 that we weren't receiving a lot of solar complaints
7 prior to that time.

8 CHAIR WEISENMILLER: Right.

9 MR. FOGT: So just to put this in context,
10 though, we receive -- we complete 19,000 investigations
11 a year. The solar complaint are a small portion of
12 that. So I want to make -- I really want to emphasize
13 that the solar industry as a whole is very clean and
14 doing a good job.

15 CHAIR WEISENMILLER: That's good.

16 Do you connect to the utility programs, so that
17 if someone's been convicted of a complaint, do they make
18 sure they get off the list of the people that the PUC or
19 the Energy Commission might rely on?

20 MR. FOGT: We do not. That may be an
21 opportunity we should explore.

22 CHAIR WEISENMILLER: Also, in terms of, I don't
23 know, do you connect on -- again, is do you connect to
24 the AG's Office on -- you know, I
25 just -- I was in Brown 1, and we did a lot with solar

1 water heating, and we did a lot with the solar -- or the
2 wind, the tax credits for wind machines. And I think
3 eventually it turned out the AG's Office was setting up,
4 basically prosecuting people on both those in terms of
5 fraud. How actively at this stage?

6 MR. FOGT: Well, we use them for our
7 administrative actions, their licensing division. We're
8 not working with them, other than that.

9 I will mention, though, that we are closely
10 working with the Federal Trade Commissioner. It's
11 somewhat on a limited basis. But we do have some
12 contractors using the robo calls, and they're targeted
13 certain communities that are low-income communities. So
14 we're working with the FTC to address that.

15 CHAIR WEISENMILLER: Yeah. I think, particular
16 when we were doing the Barriers Report the issue, in
17 part, we were focusing on were entities that were really
18 trying to prey on low-income communities. Obviously,
19 that was, you know, particularly, we're trying to open
20 up access there, trying to make sure that we're just not
21 making it easier for people to scam --

22 MR. FOGT: Yeah. So the partnership --

23 CHAIR WEISENMILLER: -- these communities.

24 MR. FOGT: -- with the FTC is right now focusing
25 on Spanish-speaking low-income consumers in Southern

1 California.

2 CHAIR WEISENMILLER: Okay.

3 COMMISSIONER MCALLISTER: So thanks for that. I
4 really appreciate it. And our staff, you know, I think
5 at the Commissioner and you all know that our staff has
6 worked together extensively on many of these issues
7 already, and so I really appreciate all the
8 collaboration that you all provide. And I think I,
9 well, I 100 percent agree with you that there's a lot
10 more we could do together.

11 Somewhat we are both, in our different ways,
12 resource constrained, obviously. I mean, your
13 investigations, I think, often are really unscrupulous
14 people that don't have licenses at all, you know, and
15 that really should be your top priority.

16 But at the same time, you know, we have the
17 Building Code, and we have enforcement issues, kind of
18 more on the retrofit side with energy efficiency and
19 local governments being constrained on resources, as
20 well. And sort of, look, what agencies can really get
21 involved there and make sure that the jobs happen in
22 accordance with law, and that they're safe. Health and
23 safety, obviously, is number one. But we need those
24 efficiency savings to reach our doubling goals and all
25 the other things we're trying to do on the energy front.

1 So I think there's much collaboration we could
2 do. And I wanted to let everybody here know, also, that
3 SB 350 does ask the Energy Commission to come up with a
4 responsible contractor policy, and so we're working on
5 that. It's one of the pieces of our implementation, you
6 know, plan that we're kind of just getting to. But it's
7 -- you know, again, everybody is under resourced and
8 overworked, right, but we're getting to that. And I
9 think there's a -- it will be a good step forward to lay
10 out a plan in some detail about what is needed to hold
11 contractors to account for the work that they do. So
12 that's sort of, you know, got a carrot and stick
13 component. And so obviously we need that stick. You
14 know, people have to understand the law and comply with
15 the law.

16 On the other hand, we could do better on the
17 building code to make sure that it's more -- that it's
18 understandable, that local government officials know
19 what they're supposed to be doing, as well, and the
20 contractors.

21 So I guess maybe to get to a question, you know,
22 what -- in terms of the levers that you have in your
23 agency to kind of call out that kind of behavior and
24 create some culture, some incentive in licensed
25 contractor in the community there to behave? I mean,

1 what are kind of your main mechanisms to get good
2 behavior?

3 MR. FOGT: Sure. And I would like to just echo
4 what you said about working together, and just say a
5 plug for Tav Cummings (phonetic) in your office. We've
6 done quite a bit of outreach together; it's been very
7 effective. And one of the outcomes of that outreach is
8 we've developed a Permit Complaint Form. And so if work
9 is done, let's say heating and air conditioning work is
10 done without a permit, a person can file anonymously in
11 a very simple complaint form and we'll investigate it.

12 But one of the tools that we have is that if
13 somebody works without a permit, we hold them 100
14 percent accountable for whatever it will take to comply
15 with the code requirement that somebody recently
16 implemented. So if somebody is contracted for a job and
17 they didn't do it per code, even if that code
18 requirement was included in the contract, they're
19 responsible for it. We can address that either
20 administratively through a citation or an accusation to
21 revoke, but more often we're using our Arbitration
22 Program which is binding, gives a financial award to an
23 injured consumer.

24 So we really do have some very strong tools that
25 are available. And our Board implemented a Zero

1 Tolerance Policy for Permit Requirement, especially as
2 it relates to energy Efficiency.

3 So I think by identifying that work, by all
4 means, let the consumer know that they should file a
5 complaint with us. And a contractor is going to need to
6 go back and make it right at that contractor's expense.

7 COMMISSIONER GUZMAN ACEVES: Thank you, David.
8 Okay.

9 I just wanted to also share that in our Southern
10 California office, we've also seen an increase in
11 complaints on solar contractors that have done a number
12 of the same unscrupulous acts, high interest rates, not
13 really disclosing what the real rate savings would be.

14 So as you probably know, we have an open
15 proceeding on the issue of consumer protection within
16 our NEM proceeding.

17 And as you probably also know, there
18 is --- Assemblywoman Gonzalez Fletcher has a bill on
19 consumer protection for solar. I know that one of the
20 big proponents that we're considering is in her bill is
21 a disclosure document that really outlines specifics
22 that would require us to work together on developing.

23 And I just wanted to know what your thoughts
24 were, if you had any general thoughts on that. And
25 certainly wanting to follow up with you to get any final

1 input to that piece of legislation in there, and
2 obviously working together on our proceeding.

3 MR. FOGT: Yeah. We're looking forward to
4 continuing to work with you on that, and also the author
5 on that bill.

6 Our thought, though, is what we really need to
7 do is to make it clearly understandable to the consumer
8 what they're contracting for. And they need to know
9 what the baseline is, what they're charging -- what
10 they're being charged today for energy and what they'll
11 be charged if they enter into this agreement. And
12 that's really what it's all about, is the disclosure, so
13 that they don't get their first bill and realize that if
14 there was cloud cover or it wasn't generating power,
15 that they're still going to have to pay the public
16 utility. You know, that's been a problem with a lot of
17 these consumer complaints. And as you mentioned, the
18 interest rate being much higher than what they could
19 have gotten from a bank, also problematic.

20 But I think that solar is a little bit different
21 than the regular Home Improvement Contract Form Law,
22 especially as it relates to a lease. We need to take a
23 hard look at it. That's why that bill's pretty exciting
24 if we can make that work. And I know that you're
25 probably working with the California Solar Energy

1 Industry Association and Bernadette. I think she's got
2 some very good ideas.

3 So I really think it's about just getting
4 together and finding out what we can put in there so
5 that it's not too onerous, so that a consumer doesn't
6 read it but they get the information that they truly
7 need.

8 COMMISSIONER MCALLISTER: So you explicitly
9 mentioned the PACE activity, you know, Property Assessed
10 Financing on the leasing, you know, where a project is
11 financed and then paid over time through the property
12 tax mechanism, you know, with the County Assessor's
13 Office. And so that program actually is -- you know,
14 it's been scaling tremendously. It's got a lot of
15 traction. You know, the contractors actually find it,
16 the ones that are, you know, involved in selling jobs
17 and financing with PACE, find it easy to work with. And
18 they can sell it across a kitchen table and it's sort of
19 quick. From their perspective, it gets done what they
20 want to get done, which is job flow; right?

21 So -- but we're seeing, you know, the fact that
22 the interest rates are a little high. And there's a few
23 cases here and there, you know, that are a little
24 troubling in terms of, you know, the consumer
25 responsiveness. And, you know, I know that the PACE

1 providers are working hard to sort of avoid those
2 negative stories so that they can really focus on the
3 positive, you know, as they should.

4 I guess do you have any sort of insight from
5 that side of the firewall, you know, with the
6 contractors themselves as to, you know, what their
7 perspective on PACE is as a way for them to just enhance
8 their business and really grow the sector?

9 MR. FOGT: Yes. We've met with PACE, and we've
10 met with many contractors that participate in it. And
11 what we're recommending is that we would have a webinar.
12 It would be something the Contractors Board would put on
13 where we would provide education to the salespersons
14 that are negotiating this, just so they're not making
15 any false statements. Generally, it works very well.
16 It's just where you have a problem is where the
17 representative says it's a government program or makes a
18 false statement as to how it gets paid back.

19 And the other issue, which you mentioned
20 earlier, is the interest rates can be exorbitant;
21 they're not always the same. And just as long as
22 somebody understands that what the interest rate is or
23 making an informed decision, it can work out very well.
24 And we're not seeing at this time an increase in the
25 PACE-related complaints. So after we've had the

1 meeting, it seems that they've gone down. They're
2 trying to work hard to make it even more successful than
3 it's been today.

4 COMMISSIONER MCALLISTER: That's great. Yeah, I
5 think that's another area we can really work --

6 MR. FOGT: Yes.

7 COMMISSIONER MCALLISTER: -- together on.
8 Because we, again, you know, in our energy goals, if we
9 silo ourselves into the energy part of the economy,
10 we've got big goals to double efficiency. And PACE is
11 really one of those financing mechanisms that allows us
12 to even think about getting to the scale that we need to
13 get to. And so, you know, we want to have all those
14 options on the table and want to make them work.

15 MR. FOGT: Absolutely.

16 COMMISSIONER MCALLISTER: So let's keep working
17 together on that.

18 MR. FOGT: We want to work with you on that.

19 COMMISSIONER MCALLISTER: Yeah. Thanks.

20 CHAIR WEISENMILLER: Thanks. Thanks for being
21 here.

22 MR. FOGT: Thank you for having me.

23 MS. RAITT: Thanks.

24 So next is our panel on the Small Business
25 Contracting Opportunities in Disadvantaged Communities.

1 And the moderator is Tyson Eckerle from the Governor's
2 Office of Economic -- of Business and Economic
3 Development, excuse me.

4 MR. ECKERLE: Well, thank you very much. Very
5 pleased to be here.

6 I just wanted to start off just describing a
7 little bit about what GO-Biz is, or the Governor's
8 Office of Business and Economic Development. Our
9 affectionate name is GO-Biz, you'll see that around,
10 BIZ. We also have a CalBIS Unit, which is BIS, to make
11 it more confusing, so that's Business Investment
12 Services, so hashtag GO-Biz.

13 And so really what GO-Biz is kind of a one-stop
14 shop for business to try to navigate the state. So on
15 the Business Investment Services, we do site selection
16 and we help connect them with incentives.

17 We also have, kind of pertinent to this panel, a
18 Small Business Advocate, which I think is one of the
19 coolest titles in state government. I think they're all
20 over the place, I think maybe even on our panel. But
21 our Small Business Advocate is Jesse Torres. And so in
22 the context of this panel, you know, small businesses
23 are trying -- and you're working with small businesses
24 that are trying to navigate the state, we sit there as a
25 ready resource to help connect the dots and make sense

1 of all the contracting rules and all that type of stuff.

2 So really what we're here about today, I think,
3 is growing opportunities in spreading, you know,
4 business growth throughout the state to kind of -- in an
5 equitable way, especially as we have these great
6 environmental goals, there's a lot of economic benefit
7 that can be benefitted there.

8 I think, you know, as a foundation the Energy
9 Commission and ARB together did a really great job, kind
10 of, on the SB 350 reports. The companion report has
11 been really impressive. I think there's a lot of great
12 success stories baked into that. And then also inherent
13 in there is we have a lot of room to grow and a lot of
14 opportunities to expand into disadvantaged communities,
15 and that's what we're talking about today.

16 You know, as we were sitting here, the last
17 presentation had a good quote at the end, you know, "By
18 educating consumers, we can build a better solar
19 industry." And I think in this case, you know, by
20 educating small business, we can build better, broader
21 opportunities for growth. So maybe just to steal a
22 quote from the previous panel.

23 But if we can go to the next slide?

24 So really, you know, the most common word here
25 in the barriers is lack; right? There's a lack of

1 access to information. We need more technical
2 assistance and workforce development. Lack of access to
3 financial resources and lack of access to support and
4 opportunity. And I think our big challenge here is how
5 do we prioritize and kind of one by one go at these key
6 challenges that are facing small business as we start
7 to, you know, do our best to grow this.

8 And so I think, you know, in that prioritization
9 that Commissioner McAllister had mentioned, you know,
10 the challenge in this kind of resource-constrained world
11 that we live in. And so what we really want to do is
12 figure out, how do we go deep on these things and make
13 meaningful progress to small businesses and not spread
14 ourselves so thin.

15 If you can go to the next slide?

16 So this, you know, the fundamental
17 recommendation, I'm not going to read this whole thing,
18 but was really for -- to do an in-depth study and
19 prioritize that. You know, it's data-driven and stuff.
20 But here, you know, today I think we have this
21 fundamental recommendation, but the job of this panel is
22 to kind of bring this to life, kind of how do we turn
23 this recommendation into something that makes sense in
24 the -- you know, for small businesses that can actually
25 have that meaningful lasting impact. And so that's

1 really what this discussion is focusing on today.

2 If you'd go to the next slide?

3 So, you know, we have some guidance for the
4 panel. We really want to focus in on the key issues
5 that small businesses and disadvantaged communities
6 face. We want to focus on action items and solutions,
7 so really looking for those areas that we can work
8 together, you know, at the state with the different
9 advocates and small businesses to really make meaningful
10 change. And we want to leverage lessons learned from
11 any previous things. You know, we talk a lot about
12 pilot projects. And there's people who have been on the
13 ground working on these issues for a number of years.
14 And this is a great opportunity to kind of pull that
15 focus together.

16 So I think the next slide there has these
17 barriers back, just to drive it on home, and maybe we'll
18 leave it here, and then we can flip to discussion
19 questions after. I know they have each -- each person
20 on the panel has a presentation. Then we'll get into
21 the question and answer right after that.

22 So Tanya, do you want to start? I know you've -
23 -

24 MS. LITTLE: Sure.

25 MR. ECKERLE: Yeah. Great.

1 MS. LITTLE: Good afternoon everyone. I'm Tanya
2 Little, California's Business Development Program
3 Manager for the State of California. I currently reside
4 at the Department of General Services. I also do a lot
5 of work with GO-Biz, so Jesse Torres and I are very
6 close friends and we advocate all throughout the state.

7 Just so you know, I've been appointed since July
8 of 2014. And the Business Development Program missions
9 is to enhance state commerce with California's emerging
10 and under-represented businesses through community
11 engagement and strategic research.

12 Since I have a short time, I'm going to read
13 everything quickly here.

14

Points to con

15 challenge on small businesses when contracting with the
16 state. So what I do is I meet with small businesses,
17 large business, prime contractors, subcontractors,
18 community leaders and groups.

19 And so in November of 2016, with the help of the
20 Contractors State License Board, I released a survey to
21 contractors to try to find out what the gaps were and
22 what their challenges were. We're in the process now of
23 reviewing that information, and we'll publish it later
24 this year.

25 So what that revealed, we received about 2,300

1 responses. Many of the contractors are financially
2 insecure, and it takes longer for them to receive
3 payments from prime contractors, is one of their main
4 problems.

5 They usually do not attend networking events
6 during business hours. So the ones that are very small,
7 we don't see them. When I go out I see some of the same
8 faces, and the people I need to reach aren't there.

9 They find their administrative burden and the
10 state bidding requirements too complicated and costly,
11 eating up their already slim profits. Those that do bid
12 do not usually travel more than 50 miles from their
13 business location.

14 I have a handout for you which goes over some
15 demographics. And when you look at all the respondents,
16 78 percent of them, of their earnings, come from private
17 contracts, a little over 10 percent from city, county
18 and school districts, 4 percent contracts with the
19 state, and another 3 percent with federal contracts, and
20 3.5, say, with public utilities. And then we have the
21 breakdown that includes our disabled veterans, woman-
22 owned business, small business, and then the
23 demographics of minorities.

24 The State of California discontinued its
25 Diversity Program in November of 1996 due to the Prop

1 209, the California Civil Rights Initiative. And DGS
2 has a statutory authority over purchasing for the state.
3 And we do also delegate those activities to state
4 departments.

5 We have a purchasing authority roundtable which
6 are members of a consortium of appointed state
7 procurement authority contacts. And we would hope some
8 of the purchasing authority contact officers and
9 procurement contracting officers will come and attend
10 those quarterly meetings. That's where they promote and
11 help guide DGS in writing and updating the state
12 contracting manual.

13 In early 2015, I convened a state Collaborative
14 Focus Group with state departments to identify gaps they
15 experience and opportunities in the areas of
16 construction. And what they said was many firms do not
17 travel, which that was what the PERM (phonetic) said, as
18 well. And that the state officials are having
19 difficulty finding firms in rural areas.

20 The other problem was prime contractors say that
21 for private projects -- let's see. Prime contractors
22 for private construction projects and state and local
23 government compete for many of the same California
24 certified small businesses for subcontracting
25 opportunities. Small business can't meet bonding

1 requirements and lack resources to meet the needs of the
2 prime contractor. And the prime contractors basically
3 say they experience high bids from subcontractors but
4 low bid requirements from the state government.

5 So that kind of gives you a nutshell. I have a
6 lot of information. I'm open for questions. I can give
7 you any information we have about the program with
8 regards to small businesses and disabled veterans, and
9 some of the contracting requirements.

10 Thank you.

11 MS. GREEN: Hello. My name is Stephanie Green.
12 I'm with the California Public Utilities Commission.
13 I'm in the Executive Division, and I oversee our small
14 and diverse state procurement programs, as well as our
15 GO 156 Utility Supplier Diversity Program. So I have an
16 interesting perspective on sort of the public and
17 private sectors and opportunities for small, diverse
18 vendors from both perspectives. And I also have a Local
19 Government and community Outreach group. So those are
20 some of my scope of responsibilities.

21 And when I look at both the private
22 and -- private sectors, many of the things that we hear
23 from firms who are trying to get contracts, who are
24 trying to thrive and get businesses, are, first of all,
25 geography in many disadvantaged communities is a big

1 issue.

2 Simply, as Tanya alluded to, they don't want to
3 travel beyond 50 miles. So the quantity of
4 opportunities, the types of opportunities are more
5 limited. There's also a more limited selection of
6 vendors in these areas in terms of the types of fields
7 they go into. So especially from the utilities' side, I
8 think also from the state side, when we go these areas,
9 often times there's not firms who do the businesses that
10 we're looking -- or the types of services that we're
11 looking for.

12 A lot of the contracts and opportunities to
13 enlarge and specialize, many of the vendors in
14 disadvantaged areas are not prepared to take on these
15 large and very specialized contracts. They don't have
16 the capacity. They may not the financing, the
17 insurance, the bonding, the experience, understanding of
18 bidding processes, all of that. There's a lack of
19 resources in terms of business development centers,
20 banks, all the resources that small and diverse
21 businesses need to thrive. It's difficult for them to
22 get the cash flow. So if they did get a contract,
23 waiting for the payment terms is problematic.

24 And they just also may not have the capacity to
25 meet the strict bid requirements. Sometimes, for

1 example, let's take construction, a firm may say, okay,
2 I can do business with you in your rural area, but I
3 need you to have a fleet of ten trucks, and those all
4 need to be bonded and insured. So maybe they may not
5 have the capacity, they may not have the size.

6 Candidly, they also don't have access to the
7 network of information, the network of resources, the
8 network of other vendors and businesses to learn from.

9 And, candidly, there is, I consider it, a lack
10 of good faith in that many, I think, have a biased
11 against disadvantaged communities. And so I think there
12 is a bit of stigma, there is some bias and preconceived
13 notions, and that's an issue.

14 And because of the contract size, the
15 opportunities are more limited because there's no
16 opportunity for subcontracting. And many smaller, more
17 rural firms may not be able to be a prime, but they
18 could be a subcontractor. But these contracts are of a
19 size and technical nature that often they can't be
20 broken out, and they don't utilize subcontractors.

21 So that's some of the issues, just in terms of
22 the landscape. And I think about metrics and how we
23 measure success. And predominantly for the GO 156
24 Program and for the state, it's often just revenue and
25 percentage, how much money did you spend with DVBS? How

1 much money did you spend with small businesses? What is
2 the percentage on the GO 156 side? It's how many
3 contracts? How many firms got the contracts? What is
4 the revenue? How much procurement dollars? And what
5 was the percentage? And those are all great metrics.

6 But I'd also like to see other metrics in terms
7 of more the macro level, which is the job creation.
8 What is the benefit to these communities? Where are the
9 opportunities? Are they increasing their jobs? Are
10 they giving -- what kind of tax dollars are they giving
11 back to the communities? Are they giving back their own
12 profit dollars? All of these are the kinds of metrics
13 that I think would be really important in evaluating any
14 programs that we come up with, and also assessing the
15 landscape.

16 As I look at our GO 156 Program, and I think
17 it's a great source of inspiration in many ways because
18 they did \$9.3 billion last year, and over 31 percent of
19 that was with diverse firms, which is women, minority,
20 DVB, LGBT firms. And some of the things that really
21 stand out for lessons learned from that side of it, one,
22 there's a firm policy of goals. It's 5 percent women,
23 15 percent minority, 1.5 percent disabled veteran.
24 There is no LGBT goal yet because it was newer to the
25 program, and we'll see in the future if we set that

1 goal, but first, having that firm program. On the state
2 side, same thing, there's the state policy of 25 percent
3 and 3 percent. So having a firm policy is really
4 helpful, and it sets goals and standards.

5 It also, I think, leads to our executive-level
6 commitment, and it really comes top down. And if you
7 have that executive level commitment, you can create a
8 culture where they value diverse firms. They could
9 value firms from disadvantaged communities. But really,
10 that top-down leadership leads to the internal
11 commitment, which leads to that culture.

12 Many of them, the firms, the utilities, maintain
13 transparent and very easy to use supplier diversity
14 websites with relevant information to the diverse
15 suppliers. I'd like to say we have something similar on
16 the state side; I don't know that I could say that. I
17 know there's issues with our eProcure. But to the
18 extent that you have that portal and that web presence,
19 that is very helpful.

20 We have a certification on the state side, a
21 small DVB. But also on the GO 1, it's women, minority,
22 LGBT certification. And there's a supplier
23 clearinghouse with a real set of -- a database of
24 vendors and vendor data, so we have that database we can
25 to. On the state side, we do have a small and a DVB

1 database, but that database can be very useful.

2 Outreach, really having strong solid outreach
3 and conducting outreach, and technical assistance and
4 capacity building, really helping the vendors. On the
5 GO 156 side, it's a multi-tiered approach, which means
6 it has opportunities and resources for the small, for
7 the mid, and the more advanced firms. It's everything
8 from entrepreneur and executive leadership training to
9 just basic business skills, business plans, marketing,
10 finance. But there's also -- they also do training in
11 safety and cyber security, e-procurement. There's
12 contract-readiness workshops. There's meet the primes.
13 And there's mentor protégé programs. All of this is
14 some of the types of technical assistance and capacity
15 building that I think benefits and helps our businesses
16 to thrive.

17 And as I look at some of these lessons learned,
18 I would say, if I look at some of the things that we
19 could do to try and create a program for disadvantaged
20 communities, I would say, predominantly, let's have a
21 program, a mandatory program, we could, with goals and -
22 - for the low-income and disadvantaged communities.
23 Include a program preference, like we do for DVBs and
24 small business. Make sure that the program is designed
25 so it should -- will garner executive level commitment,

1 which will create the internal commitment and
2 environment to foster this success.

3 Provide effective training. Simplify and
4 streamline our contracting processes for the
5 disadvantaged businesses. Provide employee education
6 and make sure that we have the internal resources to
7 support these businesses.

8 Greater transparency in our procurement
9 processes.

10 Partner with the CBOs. The CBOs play a large
11 role and can play a large role. And provide education
12 and mentorship.

13 And then reinforce the prompt payment policies
14 and provide some of the financial resources and
15 assistance.

16 And then I think certification; consider whether
17 or not there should specifically be a designation for
18 perhaps disadvantaged businesses.

19 So those are just some of my thoughts and
20 observations and learnings. And thank you for your
21 time.

22 MR. GANT: Good afternoon. Thank you for having
23 me. My name is Simeon Gant and I'm the Executive
24 Director of a nonprofit called Green Technical Education
25 and Employment. And our goal is to train and teach high

1 school and college students about career opportunities
2 in clean energy, energy efficiency, and sustainable
3 living strategies. And what we have been doing is
4 teaching young people about solar, how to install solar,
5 and we've been teaching them the theory behind solar,
6 we've been teaching them energy efficiency, and having
7 them do Prop 39 Energy Surveys. They've been learning
8 this process. Also, agricultural, and so on and so
9 forth, construction, LEED certification, and those type
10 of potential career opportunities.

11 However, right now most of our students don't
12 have a place to go after we teach and train them that.
13 A lot of the companies right now, they're not going to
14 hire our students, many different reasons why; some of
15 it is bias.

16 When we look at -- in terms of small businesses,
17 we are working as closely as we can with small
18 businesses that would like to get contracts with the
19 Energy Commission. Many of the businesses really don't
20 even know the Energy Commission exists, let alone the
21 fact that there are opportunities there for them.

22 So what has been said today by these three
23 already, I could just repeat, it's right there, they've
24 said it all. But we want to try to figure out how to
25 continue to -- just figure it out.

1 I have a young man who's here with me today that
2 has his startup engineering company. He's an engineer
3 in design and he needs to know. He has no clue as to
4 where the opportunities are located.

5 So maybe there are opportunities to do more
6 workshops. I know that there are workshops that are
7 done, but are they done in the communities of color?
8 Are they done in the low-income communities, these
9 workshops and these education opportunities?

10 And so, you know, I really have to commend the
11 PUC, as well as the Energy Commission, for putting forth
12 this effort. You know, the PUC kind of did it many
13 years ago, and I see that the Energy Commission is doing
14 it, as well, and it's really good. But, you know, if I
15 had my druthers, we'd reverse 209. We would make it
16 very clear as to who and why we're trying to assist.
17 There are too many small businesses that can't get in.

18 And so we have to keep pushing. I'll continue
19 to train our young people, but there is a bias or a
20 stigma against new applicants, okay? There, you know,
21 we also need more public workshops because the language
22 is often convoluted.

23 In terms of certification, and there's two
24 different certifications or three different, there's a
25 federal certification, there's a state certification.

1 SMUT (phonetic) has its own certification. I don't know
2 if nonprofits or CBOs need to be certified or not. It's
3 just, you know, we just -- if we could kind of conform
4 it all, somehow, someday, it would make it easier for
5 small businesses to get in.

6 If we could publish a list of likely
7 solicitations for the year, I know sometimes that's
8 difficult, but some of these contracts the agencies are
9 aware of well in advance. If we could publish that in
10 advance, I think that it would be helpful.

11 After someone loses an RFP or loses the ability
12 to get the contract, have an opportunity to have that
13 discussion about what they can do make their application
14 stronger the next time.

15 I think, really, those are kind of some of the
16 main things that I wanted to mention. It's kind of a
17 brave new world for some of us after AB 32. And our
18 goal is to engage our young people, who are now ready to
19 kind of figure out, okay, what's next for them. But if
20 they get to this point and there's a roadblock, well,
21 I've wasted my time in trying to train them and prepare
22 them for this new world. And if we only have the same
23 people getting these contracts, if we have contractors
24 who were doing something different before, but now
25 because of AB 32, they get a chance to change gears and

1 get in and they're going to still be the same people to
2 get the contracts, we're not opening it up for people
3 who just haven't had that opportunity.

4 So thank you for my time.

5 MS. CHEN: Good afternoon everyone. My name is
6 Stephanie Chen with the Greenlining Institute. We are a
7 racial equity organization focused on creating better
8 economic opportunities in communities of color. So I
9 would like to start with an enthusiastic double click on
10 Simeon's comment about reversing Prop 209, the
11 California Civil Wrongs Act [sic].

12 And then I want to zoom us out here for a
13 minute. I think you've got a lot of great resources on
14 the panel who are talking about the challenges and the
15 opportunities around state contracting. But looking at
16 the Barriers Study in its totality -- and those are
17 really key areas of improvement and key opportunities
18 for small businesses. And folks are already starting to
19 make some inroads in that area with CalSEED, with
20 modifications around EPIC Program, as well. So I think
21 that there are some strong steps in the right direction
22 being taken there.

23 But if we take a step back and we look at the
24 whole Barriers Report in its totality, one of the
25 recommendations that I have is don't look at all those

1 chapters separately. Don't have the Chapter 5
2 conversation over here and the Chapter 2 conversation
3 over here, and never the twain shall meet. All of these
4 investments are really looking at pushing the same
5 things into the same communities.

6 We want to get -- we want to get clean energy
7 options into disadvantaged communities, into our
8 environmental justice communities. And we want to make
9 sure that businesses in those communities have
10 opportunities, as well. And a lot of those
11 opportunities will come from state contracting, they'll
12 come from utility contracting. But a lot of those are
13 going to be consumers going out and buying stuff.
14 They're going to buy stuff from a big-box hardware
15 store. They're going to buy stuff from their local
16 hardware store. They're going to sign up with the local
17 contractor to weatherize, to talk about solar, things
18 along those lines.

19 And so I think one of the key things that we
20 need to do with respect to the study is take a look at
21 where purchasing is going to happen as we push towards
22 2030 and make sure that we are creating small business
23 opportunities all across those boards. We've got a good
24 start with government. We've got a good start with
25 utility purchasing in GO 156.

1 I don't think we have, necessarily, a good
2 enough start when it comes to how do we create a system
3 that provides individual consumers, be they small
4 businesses themselves, be they homeowners, landlords,
5 whoever, to say, hey, here are some of the advantages of
6 going with a local business versus going with something
7 bigger, something statewide? Here at the -- here are
8 some of the options in your area for local contractors,
9 local small businesses who are certified to do X, Y, Z.
10 Providing that information, providing a why this is
11 important, and making sure that when those customers are
12 making their Chapter 2 investments, they're doing it in
13 a Chapter 5 way is really going to help us, I think, get
14 there without -- with a minimal -- with maximum
15 effectiveness and minimal disruption. So I think that's
16 a critical point.

17 And then we need to think about financing. And
18 I actually think that the agencies that are in the room
19 here are the perfect ones to start thinking about
20 financing. You already have, from folks at the PUC,
21 from all of the other conversations with small
22 businesses that are going on, you have a real clear
23 sense of what the barriers are. And I have not been
24 doing this work as long as many of the other people in
25 this room, but the barriers haven't changed. They're

1 the same. And there are some federal resources out
2 there that were called out in the study, which I think
3 provides some good options for folks. And I also 100
4 percent believe that California can do it better,
5 particularly than the current federal administration.

6 So I think that there's actually a lot of
7 promise here, and especially when it comes to some of
8 these areas. As you're engaging in the study, don't
9 reinvent the wheel. Assess what you've got already,
10 figure out what questions haven't been asked, and then
11 let's get to solutions. Let's just cut right to it.

12 Thanks.

13 MS. TELLECHEA: Hi. Good afternoon. Thank you
14 for having me here. My name is Angelica. I'm with
15 Brownstone. I'm a small business and I provide
16 strategic development and outreach. And I have the
17 unique job of having clients that are primes that call
18 me in and say, I was the lowest responsible bidder. I
19 didn't get my \$2 billion project. Go in there and
20 figure it out for me. And then I have the small
21 business that says, why can't I get a job, you know, for
22 at least \$100; right?

23 So one of the things that we did was try to get
24 everything, exactly what you've said. And as a small
25 business I could totally relate because one of the

1 things was that the small firms were not getting that
2 information; right? There's a lot of information out
3 there, but it's very overwhelming. Whether you have a
4 degree, you don't have a degree, you speak the language,
5 whatever, that really is not the issue.

6 And so what we found is we took 20 firms, we did
7 the -- I was lucky enough that I was called in by the
8 USDOT and CalAsian Chamber, and we took 20 firms and we
9 said let's accelerate your growth and let's see what
10 that is, with the purpose of finding what is the
11 problem; right? So it was very diverse. And we did
12 bring in -- we were very lucky that Department of Energy
13 was very instrumental to bringing information. DGS also
14 was participating. It was great to see everybody coming
15 together, but we really broke it down. When it came
16 down to it, I agree with you, don't reinvent it because
17 you have the issues in front of you, and don't make it
18 as complicated.

19 The first thing was that no one understood was
20 that there's different certifications, and there was a
21 big confusion. They waited a whole year to get
22 certified with Caltrans, but that has nothing to do if
23 you're not certified with eProcure and DGS. And people
24 were like, what is that? Nobody knew, you know? And so
25 that was huge. And so thank you for Department of

1 Energy and DGS, who brought that forward.

2 The second thing was if I have an issue, what do
3 I do? Everyone spends a lot of money in their state
4 departments for advocates, but the advocate is not
5 willing, really, because we did a couple of tests,
6 really to help guide you and mentor you to get to that
7 solution. What do you have? Do you have a problem?
8 Well, where's your sheet? What's your number? What's
9 this? They don't even speak the same language. So
10 right there, there's a breakdown in communication. You
11 think you're having communication but there's not, and
12 then you don't hear from that advocate. So that is like
13 number two.

14 So what we did is with the 20 firms, we brought
15 in a small bank, a big bank. We brought a bonding
16 company. We brought in someone who could teach
17 technology. Technology was the second biggest fear,
18 besides not knowing what eProcure was; right? So a lot
19 of these firms are actually afraid to turn on the
20 button, you know? It will help you.

21 And so we actually taught them Excel and Word,
22 and how do you do an email, and what is proper grammar.
23 I mean, we took it really, really basic. And I know it
24 sounds very easy. But really, out of these 20 firms, we
25 had 18 get contracted and bonded, and get a line of

1 credit. One of them didn't even know that he had over
2 an 800 credit score because he didn't understand how
3 that ties in with a bond.

4 A lot of them don't know that NOW Account
5 exists, which is a federal program that will accelerate
6 your payment. They will vet whoever you want your
7 contract with so that you get paid right away and you
8 don't have to wait three months, because you don't have
9 three months to wait. So all these little things that
10 we created, these cheat seats to accelerate their
11 growth.

12 When you're out there -- I just spoke to Nina
13 from Corrections and Rehabilitation this morning. If
14 you create a cheat sheet and you give it to all these
15 people you're having in the different communities and
16 you say, this is a cheat sheet for this and this is a
17 cheat sheet for this, you can be on your way, study it,
18 do it. I think you're on your path because it kind of
19 combines all the resources.

20 All of you are spending different monies. When
21 we can come together, when we brought everybody
22 together, it was like ah-ha moment for everybody. Oh,
23 by god, DGS. Oh, Department of Energy. Oh, this is how
24 it works. Okay, I get it. But when everybody is
25 spending their own thing and different language is used,

1 it also kind of throws them off. But I think as a small
2 business, if we can come together and make it a little
3 bit more simple, I think that would be easier.

4 And I do want to say that we did check and see
5 how the state is doing in procuring small business, and
6 they didn't pass their report card. It was under five
7 percent overall. And so that was -- that's not a
8 mystery to anyone. So there's obviously something
9 lacking; right? There's something a little bit lost in
10 translation.

11 And then for those that were brave enough to
12 really get to those next steps and everything, one of
13 the things that they are told, well, go to the
14 whistleblower line. They'll help you, go to the
15 whistleblower line. You have an issue, go the
16 whistleblower line. What does that mean? You're not a
17 whistleblower. You just want to resolve and want to
18 learn; right? So I think that's really important to
19 really guide them. You know, you're not going to send a
20 kindergartner to third grade to get an answer; right?
21 And you have to start there. And they already have the
22 stigmas and the barriers that you said.

23 One gentleman, Charles, a construction company,
24 people looked at him, small banks said, nope, nope,
25 nope. So then we took him in, African-American, 20 years

1 doing concrete, wanted to get started. To make a long
2 story short, I said, "Let's go over here to a larger
3 bank. Let's go over here to this bonding." Had an 805
4 credit score. Got bonded for \$1 million. He's doing
5 very well. But we had to take the time to explain it and
6 break it down for them. And that's what we have to do.
7 You're going to spend more money doing it fast than if
8 you do it right the first time.

9 So thank you for your time.

10 MR. ECKERLE: Well, thank you very much, all the
11 panelists. There's a lot of -- a wealth of information
12 and knowledge up here. So I think we maybe could just
13 go straight up to there. I'm sure there's plenty of
14 questions.

15 CHAIR WEISENMILLER: Yeah. I had a couple
16 questions. I'll start off with Stephanie on the PUC
17 side.

18 I was trying to understand, do you
19 have -- you know, as you said, on the contracting there
20 are pretty good numbers in diversity. Do you have a
21 sense of how that translates into disadvantaged
22 communities?

23 MS. GREEN: That's an interesting question. Yes
24 and no. We do know by ethnicity, and we know by
25 category. And we know, generally speaking, for example,

1 we know the percentage that are minority firms, and we
2 know the percentage that are woman-owned firms, or a
3 combination, and which are DVB. And then, basically, we
4 know that two-thirds of, excuse me, of small firms are
5 diverse -- I mean, two-thirds of diverse firms are
6 small. So from there you can extrapolate from the
7 number of diverse firms how many of them might be small.
8 And then we do have some data by contract size, what
9 were the size of contacts they got, so we do have some
10 of that data.

11 CHAIR WEISENMILLER: Yeah. Well --

12 MS. GREEN: We could pull actual zip code data,
13 too, for the vendors in our database to know regionally
14 where our vendors lie. And then we'd have to do a cross
15 check with where their utilities report getting
16 contracts, so it is possible. But it's a couple layers
17 of database pulling.

18 CHAIR WEISENMILLER: Yeah. I'm just trying to
19 figure -- I mean, Edison, today, said that 47 percent of
20 the DACs are in their service territory. So one would
21 hope that say 47 percent or more of their contracting
22 are located in
23 DACs --

24 MS. GREEN: Yes.

25 CHAIR WEISENMILLER: -- right?

1 MS. GREEN: It is in their service territory.

2 CHAIR WEISENMILLER: Yeah.

3 MS. GREEN: That is a true -- that is an
4 accurate assessment. And their percentage of spend
5 would diverse from, I think it was 41 percent this year.

6 CHAIR WEISENMILLER: Forty-one percent?

7 MS. GREEN: Yeah. It was pretty good.

8

9 CHAIR WEISENMILLER: Yeah. I was just trying to
10 dial in on, you know, sort of the specific disadvantaged
11 -- are the disadvantaged communities in Edison
12 benefitting at least their share of the contracting and
13 diversity contracts?

14 MS. GREEN: Yes.

15 CHAIR WEISENMILLER: The other question is --

16 MS. GREEN: That is a study we're actually
17 doing, too, and that's something that will be a topic at
18 our en banc, which is going to October 5th. And we're
19 really asking the utilities and really trying to peel
20 back. Because the purpose of the GO was really about
21 economic --

22 CHAIR WEISENMILLER: Right.

23 MS. GREEN: -- empowerment and creating economic
24 opportunity. So we really want to take it back to what
25 is it really doing in our local economies? So that will

1 be the focus of our en banc. And we are asking some of
2 the utilities to look at the data that way and really
3 take a look at where their contracts are and how that's
4 contributing to their communities.

5 CHAIR WEISENMILLER: I'm presuming that the IOUs
6 are covered by these regulations, but note the LSEs, is
7 that --

8 MS. GREEN: Right.

9 CHAIR WEISENMILLER: Yeah. And as the nature of
10 the industry changes and you have more shifts to CCA,
11 say --

12 MS. GREEN: Another topic at the en banc.

13 CHAIR WEISENMILLER: Another topic at the en
14 banc. Good.

15 MS. GREEN: We're going to have a panel just to
16 address --

17 COMMISSIONER GUZMAN ACEVES: Excuse me. The
18 other --

19 MS. GREEN: -- that very topic.

20 COMMISSIONER GUZMAN ACEVES: -- other providers
21 --

22 CHAIR WEISENMILLER: Yeah.

23 COMMISSIONER GUZMAN ACEVES: -- energy
24 providers?

25 CHAIR WEISENMILLER: Yeah. I mean, that's sort

1 of another part. I mean, as you were talking about
2 where to find the jobs, I guess once you've heard the
3 number there's, you know, like \$9 billion and 40
4 percent, it's like, you know, go where the money is, you
5 know, at least start there. You know, certainly there's
6 a lot of other programs you could look at, but this
7 seems to be one at the top of the list.

8 The other question, I was going to look at Tyson
9 and Stephanie on this. When we were pulling this
10 together we had this unusual combination of Greenlining
11 and Silicon Valley Leadership coming in with proposals
12 to us. Yeah. And, actually, it was (indiscernible),
13 GO-Biz was.

14 So I just wanted to follow up. Where has that
15 gotten to?

16 MS. CHEN: Yeah. That's an interesting
17 question. As Tyson and I are both looking at each other,
18 I think you have your answer.

19 But, you know, I think this last thread of
20 conversation touches on a point that I raised at last
21 year's en banc which is that General Order 156 doesn't
22 actually tap into, it doesn't give any insight into the
23 supply chain behind PPAs, behind Power Purchase
24 Agreements. And the vast majority, all of the utility-
25 scale renewable procurement is coming through PPAs. But

1 GO 156 really just looks at the point of purchase for
2 the energy. It doesn't look at all back into who owns
3 that project, who built that project, where did they buy
4 their screws and paperclips from, who did their legal
5 work.

6 And so I think we're really missing an
7 opportunity by not creating some kind of reporting and
8 transparency mechanism that can operate parallel to GO
9 156, because it's not looking at the same thing, but
10 that can operate parallel to GO 156 and give us some
11 transparency into the solar industry, the wind industry,
12 the microgrid folks, the storage folks, the EVs, things
13 along those lines.

14 CHAIR WEISENMILLER: Well, certainly the
15 Commission is considering, I'm going to say billion-
16 dollar programs on the charging infrastructure side of
17 business. I have no idea what setup there to get that
18 sort of information on -- you know, again, it's a huge
19 new opportunity.

20 COMMISSIONER GUZMAN ACEVES: Yeah. These are
21 all questions we are currently asking ourselves. And
22 some of them are teed up for the en banc.

23 I do think it is an interesting time in
24 California where the issue of diversity procurement is
25 evolving. As a state that is now the majority people of

1 color, we're going a little deeper into where the
2 investments are.

3 I think it's an interesting question to look at
4 Edison as the example where 47 percent of their service
5 area is disadvantaged community. Where is the
6 investment? I mean, if you talk about generation, that's
7 around half of the revenue expenditure for most IOUs.
8 That's not usually happening in that 47 percent, just
9 because of the urban, you know, space that they're in.

10 So one thing you all mentioned was one of the
11 limitations on the geographic distance. And, you know,
12 if you're having 47 percent in one geographic, general
13 geographic area of a service area and half of the
14 expenditures are largely in rural areas where generation
15 could be developed, some urban areas, as well, that's
16 one question. The other question is all the other
17 contracting that can happen.

18 And I guess I'm assuming that by the question of
19 your geographic distance that you're assuming that if,
20 in fact, you invest in the 47 percent, which is -- well,
21 not just that 47 percent, but if you invest in
22 disadvantaged communities, that will have a natural
23 correlation with investing in the small businesses and
24 workforce areas that we want to develop. I think that's
25 harder on the generation side for contracting. But it

1 would certainly be interesting to explore, what are some
2 of those high --outside of distributed generation,
3 obviously, but what are those other areas of investment,
4 outside of generation, that can be kind of optimized to
5 invest in disadvantaged communities where the
6 geographical distance will no longer be a barrier?

7 MS. TELLECHEA: As far as the -- as far as the
8 regional and all that, and the 50 miles, that makes
9 sense. Because in speaking to the small businesses, when
10 you look at a PLA or a you look at what the parameters
11 are of whatever they're applying for and they're
12 interpreting what regional means, so that will limit it.
13 The regional could be, for example, here, a lot of times
14 we'll say the seven counties. They
15 don't -- it doesn't translate to them, so then they kind
16 of limit themselves. So I said, well, why didn't you go
17 to Roseville? Oh, that's out of my area. Actually,
18 it's not for this project.

19 So I think it goes back to educating the
20 communities, you know, whether -- because, for example,
21 I'm leaving to Calexico, wonderful, 125 degrees. But,
22 you know, that's one of the challenges there, is saying
23 you can go past this little imaginary line. And we see
24 it here in Sacramento, too, where some of the South
25 Sacramento or some of the Winters contractors will not

1 apply because they think it's out of their geographical
2 area, but I think that needs to be better explained, you
3 know, what does that mean?

4 MS. CHEN: I think, too, that it depends on what
5 kind of investments we're talking about. Like for DG,
6 that could be hard, especially if we're talking about
7 big-scale, it's going to require a certain kind of
8 business, or something that's really specialized or
9 technical or whatever.

10 But then I think about energy efficiency; right?
11 And every building that isn't brand new is a job
12 opportunity and a contracting opportunity. And those
13 are going to be the ones that are manageable for a small
14 business that doesn't have it in their business model to
15 go further than 50 miles. But within most of
16 these -- if you look 50 miles from a lot of these
17 contractors, there's a lot of great job opportunities
18 there.

19 And I think the lesson that we need to take from
20 the post-ARRA investments is if you want the businesses
21 to get contracts and you want the workforce to get jobs,
22 you have to empower the customers to make those
23 purchases and make those investments.

24 Which goes back to the thinking about all of the
25 investments at the same time approach.

1 COMMISSIONER MCALLISTER: I wanted to, if we're
2 -- anybody else? Okay. So I wanted to actually sort of
3 build on that somewhat, but ask a question.

4 You mentioned, Angelica, a program that allows
5 the contractor or the small contractor not to have to
6 sit around for three months and get paid. And, I guess,
7 could you expand on that? Because those are the kinds
8 of practical, pragmatic things that, you know, allow --
9 you know, they need to get the job, you know, as you're
10 talking about Stephanie. They need to understand the
11 opportunity. They need to do quality work. But they
12 also need cash flow. I mean, that's what keeping a
13 business in business is all about.

14 So could you describe that more?

15 MS. TELLECHEA: Sure. It's called NOW Account.
16 And what NOW Account does is it allows the small
17 business to -- first of all, it's a simple one page, you
18 know, information about yourself and, you know, it's not
19 cumbersome or anything like that.

20 And then what happens is you'll say, for
21 example, I just got -- not me, but let's say as a small
22 business, you just got a contract with Turner; right?
23 And you're going to do concrete, and it's \$25,000 or
24 \$100,000. So then what they do is they'll say, oh, you
25 know what, this guy, he doesn't pay. Do you really want

1 to do business? Because we're not -- so they vet, first
2 of all, they vet who you want to do business with, which
3 is huge; right? Because they just want the work.

4 Secondly, once they vet that person, the person
5 that you're doing business with dose not know that
6 you're with NOW Account because they're still going to
7 write the checks to Angelica at this P.O. box; right?
8 But that P.O. box actually belongs to a NOW Account. If
9 Turner never pays, they don't come after you, they go
10 after Turner. But you've gotten your money in five to -
11 - I think it's five to seven days, so you don't have to
12 wait three months.

13 So what we're doing is educating the small
14 businesses that this is an avenue for you, because we
15 understand you're a small business, right, and you need
16 to pay your people. That way it can avoid a lot of stop
17 payments that we see a lot of times, or if a
18 contractor's not paying their subs, that avoids that.

19 COMMISSIONER MCALLISTER: If you could provide a
20 little more information about that, like who -- you
21 know, where those resources are coming from, how that
22 program is run? I don't know, like --

23 MS. TELLECHEA: It's a federal program.

24 COMMISSIONER MCALLISTER: Oh, okay.

25 MS. TELLECHEA: Yeah.

1 COMMISSIONER MCALLISTER: Okay. Yeah.

2 MS. TELLECHEA: It's a federal program. And,
3 actually, it's underutilized. I think last year they
4 obviously allot a certain whatever for staffing or
5 whatever. You do pay a small fee to have that, but it's
6 nowhere near what you would pay if you're living off
7 your credit card or anything like that, and it's
8 supposed to alleviate that. It varies, I believe, from
9 zero to three percent, based on the amount.

10 COMMISSIONER MCALLISTER: So that sounds like
11 kind of almost like an insurance product.

12 CHAIR WEISENMILLER: Is it Small Business
13 Administration or Department of --

14 MS. TELLECHEA: No.

15 CHAIR WEISENMILLER: What -- where in the
16 federal government?

17 MS. TELLECHEA: I can provide you with the link,
18 they have an office in Texas and an office in D.C, but
19 it's called NOW Account.

20 CHAIR WEISENMILLER: Yeah. That would be good
21 if you could submit that in the docket.

22 MS. TELLECHEA: Uh-huh.

23 COMMISSIONER MCALLISTER: Yeah. That would be
24 great.

25 And then I would just also say, hey, if we found

1 out more about this and it looks like it's something we
2 might even be able to put in place in California, you
3 know, a type of insurance product or, you know, clearly,
4 it's a financing tool, maybe we can think about that as
5 a solution within the barriers context --

6 MS. TELLECHEA: Yeah.

7 COMMISSIONER MCALLISTER: -- locally.

8 MS. TELLECHEA: We have talked to some of the
9 primes to include it when they're -- when we're doing
10 the outreach with smaller businesses to encourage them
11 to sign up. And we get people to come out to sign them
12 up, so it's worked really well.

13 COMMISSIONER SCOTT: I had a few thoughts on
14 this. I wanted to address a point that Simeon made, I
15 believe, in his comments about following up with folks
16 who do not have successful applications. And we do do
17 that here at the Energy Commission. We will walk you
18 through in great detail, answer any questions that you
19 want to know, walk through a successful scoring, one
20 that's scored and won the proposal, and do kind of the
21 compare and contrast so that folks really do have an
22 opportunity to learn and grow. So that is something
23 that we are working on here.

24 I had a couple of thoughts, just based on things
25 that all, excuse me, that all six of you had mentioned.

1 One is making sure that people know about the
2 opportunities.

3 And one of the things I was thinking about is
4 through our EPIC Program we have kind
5 of -- we call it the -- I think we call it the
6 matchmaking. I'm not quite sure what it's called, but
7 it's a LinkedIn account where people have the
8 opportunity to, hey, you know, I'm really interested in
9 X topic, and then you can go through and see who all the
10 other folks who are interested in X topic are and start
11 to make connections that way. If you all haven't had a
12 chance to look at that, I'd love if you could do that
13 and see whether there's a way that we could take that
14 and make these connections between some of the smaller
15 businesses and the opportunities that are out there for
16 smaller businesses and large businesses that they might
17 be able to contract with. Because it's a pretty neat
18 concept, I think, that the EPIC team has put together.
19 And that might be a creative way to try to start
20 bridging that gap there.

21 We heard some, I think, about working through
22 CBOs in an earlier panel about working through faith-
23 based organizations. And so if there are appropriate
24 contacts that we could -- you know, we'd have to think
25 about this, so they're not getting, you know, 100 emails

1 from a listserv every day, but to make sure that some of
2 these opportunities get out into a broader way.

3 Because one of the things about the Energy
4 Commission list, and I would imagine other state agency
5 lists, is it's self-selecting. And Simeon mentioned it,
6 you have to know that it's there. And then you have to
7 know that you want to sign up. And a lot of people
8 don't know that. And so we've been trying to work with
9 legislators and others to really help kind of spread the
10 word on different components that folks are interested
11 in, and here's a place to sign up and find more
12 information.

13 And so to the extent that you can help us spread
14 the word in that way, we would be happy to put
15 information together in a way to get it to you, or if
16 you know someone who would be great at this, you know,
17 to try to make those connections, because it is a little
18 bit of a self-selecting listserv that we have, and we
19 recognize that, but it's tricky to fix. It's not as
20 easy to fix as you might think. And you probably know
21 that, as well, when you're trying to do the outreach and
22 make connections with folks.

23 And then the last thing that I wanted to raise
24 was you mentioned, Angelica, that you have some cheat
25 sheets that really help folks. I would love to see a

1 couple of examples of those, because that may be
2 something that we can template with different programs
3 at the Commission here, at the PUC, or at the ARB or --
4 that really just sort of explain, you know, start here,
5 then do this, and then get to that. And that might be a
6 great template for us to take and run with. So if you
7 could share a couple of those, that would be fantastic.

8 So sorry. There wasn't a question in there, but
9 --

10 COMMISSIONER GUZMAN ACEVES: Question?

11 CHAIR WEISENMILLER: Sure.

12 COMMISSIONER GUZMAN ACEVES: I wonder if any you
13 could talk about some of the dynamics of where organized
14 labor fits into, you know, some contracts where they may
15 be real tension amongst the two priorities of social
16 benefit, and any thoughts you have on how to address
17 those?

18 MS. TELLECHEA: I deal with large prime and
19 small primes, right, so construction and engineering
20 firms. So when we are going to bid for a project, we
21 are in California. If I was in Wisconsin it might be a
22 little different, but we are in California. And so I
23 make sure to have a very good relationship with the
24 building and construction trades.

25 So the first thing I'll ask the client, which is

1 usually an agency, county or whatever, I'll use the Echo
2 Water Project here that we're doing in Elk Grove, right,
3 for all seven counties. And the first thing I asked was
4 -- I asked the Commission on Sanitation is: Are you
5 PLA-friendly? It's really important to also be mindful
6 of the client and what their experience is and what
7 their goal is. And so the first question is: Why? You
8 know, and it could be a benefit, and I believe that it
9 is a benefit.

10 That being said, I make sure that it's important
11 that the small business that is not part of the trades
12 understand how the trades work, and how they can also
13 benefit. So I think it's very important, as projects
14 are bid, that the goals are set so that, for example, in
15 the Echo Water -- I'm with Dragados USA, who won the bid
16 -- and so we set a pretty high goal of 30 percent for
17 small business, outside of the PLA. And the PLA,
18 obviously, agreed.

19 So I think from the beginning, when you work
20 together and you're transparent that way, it works very
21 well. When you're not, I think that's where you kind of
22 have to. But from the beginning you have to set that,
23 what is that going to be? And then if you don't have a
24 PLA, what are you going to offer in the community? You
25 said you're community. What are you going to offer?

1 Five percent or eight percent that we have seen in the
2 past does not cut it. But when you're doing 20, 30
3 percent, you are affecting your community.

4 MS. GREEN: On our end, I occasionally hear
5 complaints that the utility is requiring union shops
6 (indiscernible) to some small businesses because perhaps
7 they're not a union job, and it's seen as a cost issue
8 for them.

9 CHAIR WEISENMILLER: Yeah. I was just going to
10 say, certainly, we see comments from the Don Vial
11 Institute in the Barriers Report, and they really
12 emphasize the need to get good jobs, or high-quality,
13 you know, is a very, you know, pro-union push. And
14 that's certainly on our record.

15 But go ahead.

16 MS. LITTLE: A couple points with regards to
17 payments.

18 So in state contracting you'd always, especially
19 in the construction area, you can do a withhold when
20 you're dealing with a prime contractor, that until they
21 -- and have them report how they're paying and how
22 timely they are paying on their subcontractors, so that
23 would be one point.

24 Another one, another area that small businesses
25 have a difficulty with would be with the Department of

1 Industrial Relations. There's a \$400 fee if they're
2 going to do work on public works that they have to pay
3 annually. And depending on the size of the contract,
4 what kicks in is they have to offer an apprenticeship
5 program. There's bonding requirements. There's
6 certified payroll. And a lot of times small businesses
7 aren't equipped to handle those kind of administrative
8 costs.

9 Let's see if there's something else.

10 Forecasting report. So I'm not sure how far
11 down the line you are looking at when you want to
12 prepare or perform these types of stations. So what's
13 the cost on the contract going to be? Is it going to be
14 small enough for a small business to take on that
15 contract? And if not, are there going to be any meet
16 and greets?

17 So we always tell certification -- our certified
18 firms that the more certifications you have, the better,
19 because that's their calling card. So if they're
20 certified with DGS, DGS is supposed to be the statewide
21 certification, and it is written that way in statute.
22 However, every city, county and local entity will have
23 their own certification. Some may use the state
24 certification and request additional requirements. So
25 we say, number one, make sure they are aware of that.

1 If you have information in a pamphlet, I have a
2 webpage at DGS for business development that I could add
3 a link to that information, and I could promote that
4 when I send out my blasts to various businesses, and
5 when we also do outreach events.

6 MR. ECKERLE: So I want to be mindful of time.
7 And so, Chair, I look to you.

8 CHAIR WEISENMILLER: At this stage, I think
9 we're going to take a short break, until 2:30. We've
10 run a little bit over, but we started a little bit late.
11 So unless someone has one point --

12 MR. CAMACHO: One super quick question.

13 CHAIR WEISENMILLER: Sure. Quick questions are
14 good.

15 MR. CAMACHO: So, so far, obviously, we want to
16 increase the number of small businesses that get
17 contracts. But also for some of the contracts that are
18 quite large that may be inaccessible to those, you know,
19 small businesses because of the amount of work that it
20 just requires to prepare the application, the analysis,
21 there's a huge opportunity for subcontracting.

22 So do you know of any program or have you,
23 yourselves, done any work with some of those large, you
24 know, companies that get the contracts, to actually also
25 educate them on, you know, how to diversify their

1 subcontracting?

2 MS. GREEN: On the utility side, absolutely. We
3 have -- in fact it's in our GO that they have to do
4 subcontracting. So many of the firms have
5 subcontracting clauses, some mandatory, some voluntary.
6 But subcontracting clauses are requiring their primes to
7 utilize diverse vendors. And often times they put in
8 the same target that they themselves -- so if they have
9 an internal target of 30 percent, they'll put that into
10 the subcontracting clause.

11 So on the utility side, it's very, very active.

12 MS. LITTLE: With regards to the State of
13 California, when we're talking about small businesses
14 and DVBs, it's mandated in law that there's a three
15 percent goal for DVB contracts. It's an executive order
16 for small business, and that goal is 25 percent.

17 When I look at construction for the last nine
18 years, the state has not achieved 25 percent in that
19 industry. It's about 23 percent. So my focus was
20 looking at why we're not achieving those goals?

21 And so if they can partner with other businesses
22 and get certified at the state level as a partner or a
23 joint venture, then they can also compete on a larger
24 contract. But a lot of times you have businesses that
25 are, you know, kind of, you know, have an adversity of

1 trying it. They don't know you that well. It's like a
2 marriage; right? I want to contract with you. You've
3 got something I don't have, and maybe it will be a good
4 match for us to bid on a larger contract.

5 MR. GANT: I do spend a lot of time consulting
6 small businesses and explaining to them, go for the
7 subcontract. The first thing they want to do is go for
8 a larger contract, and they're not ready. And I do
9 spend a lot of time, you know, explaining to them, go
10 for the subcontract and learn, just as you mentioned.

11 And, you know, for many, many years, especially
12 since 2009, the state has said, oh, okay, you have to
13 have a certain percent, if you're a contractor, to go
14 look for small minority- or women-owned businesses.
15 But, you know, it's been like a situation where, yeah,
16 you're supposed to do that, and those contractors really
17 aren't doing that, and so then they
18 still -- there's no repercussion for not actually
19 looking for small or minority- or women-owned
20 businesses. And this has been happening for a very long
21 time, swept under the rug, and it continues.

22 So, you know, it would be great if, in fact, the
23 state, you know, kind of pushed that issue. But we are
24 having some issues with that really not happening.

25 COMMISSIONER MCALLISTER: Can I add? I just

1 want to -- I know we're getting towards time here, but
2 this is a really important issue, so thanks for bringing
3 that up. And, I mean, having some of us, at least, on
4 the dais have been, actually have run businesses and
5 nonprofits where we've bid on these big projects and
6 we've gone out and looked for subs, and we've actually,
7 you know, gone through this whole process, and I
8 certainly have. And I found it quite a difficult and
9 daunting process, certainly if you're pushing the
10 envelope on the time constraint and you've got to get
11 your project, you know, proposal and get it in, you
12 know, and you've sort of left it to the last minute to
13 kind of navigate some of this stuff, you know?

14 But even when you get on it early on in the
15 proposal development, finding a subcontractor that
16 you're confident can make you competitive and help you
17 win the proposal, and, you know, and comply with, you
18 know, the diversity requirements of the bid is
19 incredibly difficult. And, you know, I think ideally we
20 would have, you know, some ongoing matchmaking where we
21 would really have the skill sets vetted and we would
22 have, you know, okay, look, I have a printing or an
23 education or outreach or some kind of need in this bid
24 where I can -- you know, and here's my group that I can
25 be confident they're going to deliver. And, you know,

1 it's like going in with blinders on, you know? And
2 you're just -- you don't know what to make of the
3 information. It's like sort of dating on the internet:
4 you're not even sure if there's a real person over
5 there; right?

6 So I guess -- so I would love some comments on
7 that, because that system seems like it could really use
8 some hands-on TLC.

9 MS. GREEN: It's funny you mentioned
10 matchmaking. We, the CPUC, we conduct and hold two large
11 expos every year. And a major component of those events
12 is matchmaking. We have not only as many state agencies
13 as we can drag, DGS is always there, Caltrans is always
14 there, a number of other state, as well as local county
15 entities all there for the matchmaking, as well as all
16 of our utilities, and we have matchmaking. And we also
17 have an exhibit area. And then we have workshops. And
18 so we have two main events.

19 Also, I know many of our utilities have meet-
20 the-prime events. They have their own matchmaking
21 events. The cable industry puts on one. The water
22 industry has their own. So there's definitely venues
23 out there.

24 And then I know DGS, well, DGS also participates
25 in a few others. They have Calcon that they put on, but

1 -- so there's some good ones out there.

2 MS. LITTLE: Every February, I host a Winter
3 Business Showcase for small businesses that are in
4 California, for them to come and actually meet state
5 buyers, and they do matchmaking there. They get state's
6 presentations. They get workshops on how to do a
7 proposal for different agencies. So it's a lot of
8 education that we do need to do.

9 And back to your point about being a large prime
10 trying to find a small business. And what I try to tell
11 small businesses, and I'm sure some of the panelists do,
12 as well, is that even if you get an email and you can't
13 do that job, respond. You're going to make a connection
14 and you're going to build a relationship. So that's
15 part of it, the relationship building. There's only so
16 much we can do in this room to help them. They've got
17 to actually do some of the work themselves, and that's a
18 problem. Some of them are so small, they're strapped,
19 that they
20 can't -- they don't have the time or the capacity to do
21 some of the things we want them to do, read email, go to
22 matchmaking events, participate in LinkedIn. Businesses
23 that are doing that are already pretty much successful.

24 So if we're looking at trying to help others
25 pull themselves by their bootstraps, it's got to be at

1 ground zero, like you said, starting with how to do the
2 email, setting up time and helping them with time
3 management, right, and getting things done.

4 But like I say, a lot of the prime contractors
5 have difficulty. So if we were -- if we have speaking
6 engagements with the Associated General Contractors of
7 California, ABC, those kind of individuals, because they
8 have large and small, that would be another way of
9 getting the word out with what we're doing.

10 MS. TELLECHEA: What I was going to say is for
11 the small businesses to go and spend the time, it's
12 really difficult. And when they go to matchmaking, they
13 think that they're getting paired up for a job. They
14 take it as a job interview. I wish it had a different
15 name. We understand what matchmaking is. But when we
16 took these 20 firms plus 20 more and we did matchmaking
17 for them, they really all thought they were going to
18 come out with two or three offers. And then we
19 explained to them, there's a process to it. So that's
20 why we -- that's how the cheat sheets came to be,
21 because they were not getting it.

22 The other thing is a perfect example is the
23 arena. The person that did the compliance, I actually
24 invited her, Victoria from DCM, it was a great
25 opportunity to make sure that we did address the issues

1 of the underserved communities. And what happened with
2 the ones that did not qualify, you know, I love the fact
3 that you're ambitious and you want to have that contract
4 and you're not ready, we were able to work with the
5 unions, and actually through Victoria. And the unions
6 that -- they brought them in under the apprenticeship
7 program. And we started off with 18 and ended up with
8 80.

9 So that was a pilot in itself that we tried
10 because we wanted to make sure that we address those,
11 and we didn't miss out on good labor because they might
12 not have had that experience.

13 MS. RAITT: So this has been a really good
14 conversation, but we do need to move on to our next
15 panel.

16 MR. ECKERLE: Thank you all.

17 MS. RAITT: So I'd like to invite our panelists
18 to go head up to the tables because --

19 (Background conversation.)

20 MS. RAITT: So I think we're going to go ahead
21 and just move on to the next panel. We don't really
22 have time for a break.

23 (Background conversation.)

24 MS. RAITT: Hello. Can we go ahead and get our
25 next panel at the tables. Really appreciate your help.

1 I know it's a long afternoon.

2 (Background conversation.)

3 MS. RAITT: All right. So our -- thanks
4 everybody. We're going to go ahead and get going again.

5 For our next panel is the Adoption of Advanced
6 Technologies in Disadvantaged Communities. And Eric
7 Stokes from the Energy Commission is our moderator.

8 MR. STOKES: Okay. So good afternoon,
9 Commissioners. My name is Eric Stokes with the Energy
10 Research and Development Division, and I'll be the
11 moderator for this afternoon's panel session titled
12 Adoption of Advanced Energy Technicians in Disadvantaged
13 Communities.

14 Joining me today, we have four presenters who
15 will be sharing some of their preliminary findings and
16 insights from their EPIC-funded projects that are really
17 trying to bring clean energy technologies and their
18 benefits to disadvantaged communities. Joining me in
19 the room today, we have Ed Lopez from Groundwork San
20 Diego-Chollas Creek, Ismael Herrera from BlueTechValley
21 Innovation Cluster, also known as the Central Valley
22 Regional Energy Innovation Cluster, and John Harding
23 from Charge Bliss. We also have online, Catalina -- I
24 probably - Lamadrid from Inova, and she's calling in
25 from Chicago.

1 Before I turn it over to their presentations,
2 I'll provide just a quick bit of background on the R&D
3 Division's efforts to date.

4 If I could -- yeah. Could you go to
5 the -- maybe skip ahead two slides? There you go

6 So our efforts in the R&D Division actually date
7 back a few years when Chair Weisenmiller, in about 2013,
8 submitted a formal letter of commitment to the CPUC
9 President at the time, Commissioner Picker. In the
10 letter the Chair identified some actions we would take
11 in our administration of the EPIC Program to increase
12 diversity and equity within the EPIC Program.

13 Since then there's been some additional policy
14 guidance and direction, the most notable of which was
15 the SB 350 Barrier Study. And one of the
16 recommendations specific to the EPIC Program that we
17 target 25 percent of the Technology Demonstration
18 Deployment Funds to projects located in a disadvantaged
19 community.

20 Next slide.

21 In pursuing these objectives, we developed a
22 three-prong strategy. A big focus of our earlier
23 strategy has been really ramping up our outreach efforts
24 so that a broader and more diverse group of -- set of
25 stakeholders are aware of the funding opportunities

1 available through the EPIC Program and our other R&D
2 programs.

3 On the solicitation side, we have also
4 implemented a couple of approaches to motivate
5 technology developers to seek out project sites located
6 in a disadvantaged community, either by providing
7 preference points or by providing set-asides and
8 solicitations.

9 The third part of this strategy is identifying
10 key paying points in low-income market segments and
11 scoping out possible technology solutions to address
12 those needs.

13 Sorry. Next slide.

14 As far as our outreach efforts go, we've taken a
15 number of steps to really scale up our outreach efforts.
16 And I won't list everything we've done, but I wanted to
17 highlight a couple of those efforts.

18 One of those is to reach out to a broader set of
19 organizations to really create a network that can help
20 us get the word out when we have workshops, or at least
21 new funding opportunities. We've also developed
22 materials, when we attend forums and events, to be able
23 to hand out that people can take with them to identify
24 where they can go to get funding opportunities. And one
25 of the changes with these funding opportunity cards is

1 we now offer them in additional languages, besides
2 English.

3 We've also had workshops throughout the state to
4 explain the application process so it's not so
5 intimidating for first-time applicants applying to some
6 of these funding opportunities.

7 Also during our -- also during the development
8 of our last EPIC Investment Plan, we held two scoping
9 workshops to get input on how we can ensure funded
10 projects through EPIC are both technically strong, as
11 well as the values they're providing are aligned with
12 really the needs and the vision of the community.

13 Next slide.

14 For our second strategy, to date we've issued 11
15 solicitations where we've included preference points if
16 the project site is located in a disadvantaged
17 community. We've also had two solicitations where we've
18 done a set-aside or reserved funding for projects
19 located in a disadvantaged community. And the primary
20 different between these two choices were preference
21 points projects in a disadvantaged community tend to
22 have to compete with other projects not in a
23 disadvantaged community, but when we do the set-aside
24 the projects are competing in disadvantaged communities
25 are competing against other projects in a disadvantaged

1 community. So it gives a little more insurance that
2 some off the funding goes to disadvantaged communities
3 with the second option.

4 In addition, we have a solicitation, it's our
5 new small grant program called CalSEED, where we set a
6 target to try to encourage entrepreneurs and
7 representative groups from -- to apply for the small
8 grant program.

9 Okay. Next slide.

10 The third strategy, like I mentioned, is really
11 being able to scope out solicitations around key market
12 segments for low-income customers. An example of this
13 is after-market treatments and coatings that can be
14 applied onto existing buildings. There's already a
15 number of products out there. But some of the recent
16 advancements in material science have the potential to
17 really increase the performance of these types of
18 technologies. This isn't a strategy we've employed a
19 lot, but it's something we're looking to do more going
20 forward into the third Investment Plan.

21 As far as our progress to date, we've encumbered
22 roughly \$173 million of the Technology Demonstration and
23 Deployment Funds. This is the full allocation from the
24 2012-14 Investment Plan, and about half of our '15-17
25 Investment Plan. Of that amount a little over \$53

1 million has gone towards projects located in
2 disadvantaged communities. So our running percentage is
3 right around 31 percent right now, giving a couple
4 percentage points off.

5 In addition, we've had two solicitations in the
6 market facilitation program area where we've included
7 set-asides for projects located in disadvantaged
8 communities. One of these solicitations was called the
9 EPIC Challenge where multi-disciplinary project teams
10 applied to kind of with kind of their concept and design
11 for what an advanced energy community will be. And of
12 those projects, seven of those were located in a
13 disadvantaged community. And two of our speakers are
14 representing those projects today. I'll run t

15 We tend to classify our projects benefitting
16 disadvantaged communities into four categories. Each of
17 the four speakers today kind of -- their projects
18 represent one of these four categories.

19 The first category are projects where the
20 technology advancement is helping to improve critical
21 services needed by the disadvantaged community. A lot
22 of times these tend to be municipal services, such as
23 fire stations, as well as healthcare facilities, such as
24 a hospital.

25 Next slide.

1 The second category are projects that are really
2 improving the living and housing environment for
3 residents, helping by both lowering their energy costs,
4 at the same time making sure that we're also improving
5 their health and comfort. Most of these projects tend
6 to be retrofits of multifamily housing using advanced
7 technology packages. Okay.

8 The third category of projects are benefitting
9 local businesses and the economy in disadvantaged
10 community. A lot of these projects in the past have
11 tended to be demonstrations of new technology with the
12 target customer to prove out the value proposition. One
13 area where we've really focused under the EPIC Program
14 is technologies for the food and ag sector, primarily in
15 the Central Valley, and looking at technologies that can
16 really help reduce their operational costs, especially
17 in light of the drought the last couple years. Okay.

18 And the fourth category, our projects are
19 developing new analytical tools and methods that can
20 better inform policy and program decisions, so that
21 we're realizing the beneficial impact of these different
22 programs to disadvantaged communities.

23 And then last thing, I'll put in a plug. We
24 currently have our online database called Energy
25 Innovation Showcase. It features all of our EPIC

1 projects. And we're also ramping up our natural gas
2 projects on the database. One of the search criterias
3 is disadvantaged communities. So users can go and find
4 all our projects located in disadvantaged communities
5 and learn more about the project descriptions.

6 And with that, I'll turn it over to our first
7 speaker, Catalina Lamadrid. So her project was a result
8 of a solicitation we had a couple years ago called
9 Analysis of Social, Cultural and Behavioral Aspects of
10 Achieving Energy Efficiency Potential.

11 MS. RAITT: Go ahead, Catalina.

12 MS. LAMADRID: Sorry. Can you hear me okay?

13 MS. RAITT: Yes. Thank you.

14 MS. LAMADRID: Perfect. Good. Thank you. So
15 good afternoon everyone.

16 Thank you, Eric, and the workshop organizers for
17 the invitation. And I do apologize, but I cannot be
18 there in person. But hopefully I will be able to, you
19 know, participate in the discussion and do a good job of
20 sharing the highlights of our project.

21 As you'll see from the title on the screen, our
22 area of study was primarily Hispanic communities. And
23 we were looking at residential entities and
24 conservation. I'll talk a little bit about what the
25 study entailed, but it wasn't a graphic approach, so

1 much more qualitative in nature instead of, you know,
2 big-data type of projects.

3 And I do want to point out, so this is probably
4 now two years that we've been working on this project,
5 we're very near to being done. I'm hoping to publish a
6 final report in the next couple of months. So what
7 you'll see today are preliminary findings and
8 recommendations. And I do also want to point out that
9 this was a joint effort between my company, as well as
10 Sustainable Design and Behavior and (indiscernible)
11 Research.

12 Could we go to the next slide?

13 I wanted to start by providing a little bit of
14 project background as to how this project came to be,
15 really. And it was a combination, I would say, of some
16 studies that have been made previously that have found
17 while we know that certain characteristics, such as
18 lifestyle of income or, you know, weather, the housing
19 envelope and equipment, all of these things impact how a
20 family uses energy in their household. But there have
21 been some studies that have also found that there is
22 another variable that is not incorporated which is
23 culture and how this culture and ethnicity influence the
24 way that energy is used.

25 So while being specific to California, 28

1 percent of the population is of Hispanic origin. It is
2 a very large group. And from the experience of our own
3 research team members, as well as anecdotes from the
4 industry and colleagues, we know that in California and
5 everywhere else in the country, program administrators
6 are really struggling to engage this community. And
7 there's also been historically very low participation,
8 probably there's a disconnect there and an opportunity.

9 So we designed the project then in an effort to
10 advance our understanding of how is it that Hispanics
11 act in terms of energy? What do they feel, what do they
12 believe about energy? What are the practices that are
13 common among the community that can help us understand
14 them better, and then target our programs and our
15 initiatives better to them?

16 As we go to the next slide, the way that the
17 study was conducted, this specific study, is a
18 combination of different research records. It was
19 designed in a way that each research method would kind
20 of dig deeper than the previous one and they would build
21 upon each other so that towards the end of the project,
22 we were trying to get more at the why and trying to
23 understand the stories, the emotions, the interactions
24 that study participants could either share with us or
25 that we could perceive and extract, you know, from all

1 of these methods.

2 So I'll make a couple of kind of disclaimers.
3 This was not a comparative study, so we did not compare,
4 you know, Hispanic or (indiscernible) or Hispanic
5 community against a group of non-Hispanics or any other
6 ethnicity. And like I said, it was very much an
7 endographic type of research project, very much
8 qualitative in nature.

9 One other thing I will say is we did focus on
10 three different regions within California for this
11 study. So a lot of the work was done in the San Diego
12 County area. We had another portion of the study done
13 in the Central Valley, and then closer to the Bay Area.

14 On the next slide, I want to share with you some
15 of the high-level findings, preliminary findings, as I
16 said, that have come out of this study.

17 So one of the hypotheses that we had at the
18 beginning of the project and that we wanted to test out
19 was that Hispanics, as a group, have some common energy
20 practices and behaviors. And that did seem to be the
21 case, you know, by applying our research method. It was
22 one of the conclusions that we derived. There are a
23 number of common practices in Hispanic households. And
24 there are also some very strong ideas about energy use.
25 I will not go through all of them. I can address them

1 later in questions, or when the study is published. But
2 there are some very discrete things that seem common
3 across the board between all our study participants, or
4 most of our study participants, and also brought up by
5 experts that we interviewed, and other organizations.

6 Another thing that we found is there is a very
7 significant level of thought and attentiveness to
8 conservation/waste avoidance. This is a community that
9 is very much in tune, for a variety of reasons, with
10 using less and conserving resources. And as I said, for
11 a variety of reasons that do include saving money, but
12 also a desire to protect the environment, and also
13 benefit the community.

14 One of the things that we hear about in
15 Hispanics and that we do believe is one of the things
16 that influence their energy use is that they're a very
17 tightknit group. You know, they have extended families
18 and big families that are living in households. And
19 they do value the sense of community and neighborhood a
20 lot. So those kinds of things influence the reason why
21 they do certain things or don't do certain things.

22 In terms of conservation, a couple of things I
23 think we're very interested in even though the very
24 aware of conservation, most of it is focused on behavior
25 and not on technology. Just most of our site

1 participants did not think about technology or replacing
2 equipment. Whenever we would talk about it they would
3 bring up different behaviors that they do around their
4 home, and particularly behaviors about not using. So
5 instead of, you know, setting your air conditioning
6 temperature at a relatively high degree, they would just
7 not use air conditioning at all. And that was
8 interesting for the researchers, I guess.

9 We also found a very strong emphasis for a
10 preference on natural, quote unquote "natural", indoors
11 environment. We (indiscernible) to using certain
12 equipment, like air conditioning, or even heating, if
13 they could avoid it. So most of our participants seem
14 very prone to passive methods of cooling, even if that
15 meant like going outside of the house and, you know,
16 having the kids, you know, play in the rain or whatever,
17 in the water outside in the garden.

18 We also found that this applied to activities in
19 the kitchen and the household. So, for instance, there
20 was a resistance to using dishwashers. And they would,
21 instead, wash and dry dishes by hand. Sometimes the
22 same would apply to clothing.

23 And the last thing, the last high-level finding
24 that I'll short of share is even though our participants
25 feel that they understand energy and they have very

1 strong opinions, there did seem to be a lot of confusion
2 and misinformation, particularly about end uses and the
3 impact of their activities on the utility bill. So
4 they, you know, they talked about what they would do to
5 conserve, but there was no connection between, you know,
6 this activity applied to a high-impact measure
7 (phonetic), so there will be a reduction. And often
8 times they wouldn't even see their action (phonetic) at
9 all. So we felt that that's an area of opportunity in
10 terms of education.

11 And we also uncovered what we're calling energy
12 mix. So in our report we'll publish a list of ideas
13 that Hispanics seem to have about energy, some accurate,
14 some not. But again, if we're interested in helping
15 shape behavior and understanding how to better engage
16 them, we could, you know, do a good job trying to dispel
17 those myths, trying to (indiscernible) the
18 misconceptions that exist.

19 So on the next slide, you know, this is a very
20 quick presentation, observation, so I'll go through just
21 a couple of them.

22 The most important are critical recommendations.
23 We're putting forth recommendations for energy
24 conservation or administrative management, permanent
25 administrators, as well as some policy recommendations.

1 I'll pick a couple, just to highlight.

2 But in terms of program design and delivery, I
3 believe this is a finding for the disadvantaged
4 communities, as well, most Hispanics are renters. More
5 opportunities need to exist for, you know, renters,
6 they're not homeowners, want the family buildings. And
7 then there's also a lot of Hispanics that qualify as
8 low-income participants. And, of course, there are
9 programs for them, but there's also a lot that fall
10 above the threshold but still don't have the resources
11 to participate in mainstream programs, so that they're
12 sort of left hanging there in that gap.

13 And then, as I said, we do believe that program
14 designs that approaches entire communities and
15 neighborhoods can be very successful with these
16 communities. So, for instance, there are some models
17 that establish neighborhood challenges, or things like
18 Community Bay Solar. Leveraging that tightness and
19 connection could create a lot of opportunity, right,
20 both for the community, and then for the program
21 administrators and implementers.

22 In terms of marketing and outreach, we -- you
23 know, I guess the main message would be to collaborate
24 with community-based organizations. Again, I know this
25 is not -- it shouldn't be something new, I should say.

1 In fact, the way that we've recruited most of our study
2 participants was through CBOs. They are trusted.
3 They're on the grounds. They know the people.

4 But then the other recommendation would be often
5 times we limit our marketing and engagement efforts to
6 translating something to Spanish, and that is just not
7 enough. The messaging needs to be customized, and there
8 are clear recommendations in our report as to how to do
9 that. And, also, the strategy needs to be culturally
10 relevant, as well.

11 And then, as I said, lots of opportunities to
12 address energy mix, do it through in-person workshops,
13 instead of distribution of just flyers and materials,
14 recognizing that those are generally more costly
15 methods, but there are a lot of, as I said, established
16 organizations in the community that we can work with to
17 help deliver these training workshops or education
18 sessions.

19 And my next and final slide, just again very
20 quickly, though the focus of what we're doing is mostly
21 recommendations on the program administration side,
22 there are some policy and research recommendations. I
23 think primarily, you know, and just going through all
24 the efforts of (indiscernible) and everything that's
25 being done, that we're doing, but we first need to

1 recognize that there's an opportunity and a lot that we
2 don't know. We believe that there's still a need for
3 additional pilot projects and initiatives within these
4 communities.

5 And then, you know, I come from the perspective
6 of the utility, because that's where a lot of my
7 experience is. And I understand that you need to speak
8 to the utility in terms that are also convenient to
9 them. And in order to do that, we need to identify what
10 the potential is of engaging Hispanic and obtaining more
11 energy efficiency there.

12 And the last thing I'll say, at the top of that
13 list there is the community needs to be engaged from the
14 beginning of everything, so they need to be part of the
15 policy development process, through sharing ideas,
16 through the development of community programs.
17 Innovation workshops are great for leadership from the
18 community invited to participate.

19 So, obviously, I don't have time to get into all
20 of the details here, but I just wanted to put those
21 forth. And that is it for me.

22 My final slide has my contact information. But,
23 obviously, I'll hang around an answer any questions.

24 MR. ECKERLE: Great. Thanks, Catalina.

25 So our next speaker, Ismael Herrera from

1 BlueTechValley Innovation Cluster. And BlueTechValley
2 manages a network of incubator services throughout the
3 Central Valley and the north state to really help energy
4 entrepreneurs in those areas.

5 MR. HERRERA: Thank you, Eric.

6 As he mentioned, my name is Ismael Herrera. I'm
7 here representing the BlueTechValley Region Innovation
8 Cluster. We are housed out of California State
9 University, Fresno, in the San Joaquin Valley. I do
10 want to note that I will not be here tomorrow. That is
11 a typo. It should read August 1st, so I apologize for
12 that.

13 Next slide please.

14 We are part of a consortium of four awardees who
15 received a \$5 million grant from the EPIC Program last
16 year. There are three others that are part of our
17 consortium. I do want to note that there have been name
18 changes to two of those. The Valley Cleantech Incubator
19 is now known as the Energize California Incubator. And
20 the Cyclotron Rd. is now actually called the Activation
21 Energy Incubator. So those are a
22 bit -- those names are a bit outdated. But we are in
23 constant -- we're in communication with those three
24 other cohort members. And we also have partnerships
25 with Navigant and CalSEED, specifically CalSEED, to try

1 to get some of those startup dollars into our region to
2 supplement the finding that comes from the CEC for some
3 of our startups and innovators.

4 A little bit more about -- next slide please.

5 A little bit more about our specific project.
6 We are using a hub and spoke model. As I mentioned
7 already, we're housed out of Fresno State, but we're
8 covering a region of 39 counties in Central California,
9 where the other three incubator projects are not
10 represented. We have a regional approach. And we're
11 leveraging a relationship that our university already
12 had, a network through our CSU Water Resources Policy
13 Initiative. That's how we were able to seamlessly get
14 the buy-in from these other CSU campuses to be able to
15 participate in our CEC project.

16 And then we do have a Small Business Development
17 Center up in the Sierras that is partnering with us, as
18 well. And there's a number of partners that are listed
19 there, including UC Berkeley, Davis, and several other
20 private and nonprofit organizations, and our office is
21 included. I represent the Office of Community and
22 Economic Development at CSU Fresno.

23 Next slide please. Oh, it looks like we missed
24 a slide. Can you try the next one? There is a slide
25 missing, but I will go ahead and tell you what the

1 objectives are for the BlueTech Region Innovation
2 Cluster.

3 So anytime we talk about energy in the San
4 Joaquin Valley, and across the state for that matter,
5 there's an inevitable nexus between, as was mentioned by
6 Eric in his opening comments, but there's a connection
7 between water, energy and agriculture in our neck of the
8 woods. And so the innovations and the startups that
9 we're looking for to commercialize our companies and
10 ventures that are focused on those three areas.

11 In the case of this project, it can be focused
12 on more than one but definitely has to have a focus on
13 energy. We are trying to find -- attract not only local
14 but regional and statewide, and we even have some global
15 interest for the facilities and assets we have on campus
16 to try to become part of this ecosystem that this
17 funding is helping support in our region.

18 We're looking to expand not only the
19 infrastructure of services and testing facilities, but
20 also the infrastructure of capacity, of the knowledge
21 experts that are within our region to help folks with
22 things like SPIR (phonetic) and SETR (phonetic)
23 applications that can leverage state funding from the
24 CEC. We're constantly looking to expand our ability to
25 provide services to our businesses. That's just one

1 example.

2 And then, of course, we have a very high focus
3 on disadvantaged communities. And that's one of the
4 reasons why our office is involved in this project. We
5 do a lot of work in the rural disadvantaged communities
6 of the San Joaquin Valley.

7 And so, you know, contrary to common knowledge
8 that there isn't much innovation or technology in these
9 small rural communities, we have found examples of where
10 that is not the case. There are diamonds in the rough,
11 if you will, that need to be found and polished. And
12 they can become very viable ventures that are
13 commercialable for application in the ag industry and
14 the local food processing industry, and there are some
15 examples of those.

16 And we, of course, are looking to benefit
17 California ratepayers. And for us, that can be anybody
18 from a residence, to a municipality, to a farmer, to an
19 irrigation district, to an industrial company, such as a
20 food and beverage processor which is our largest
21 concentration of manufacturers in the Central Valley.

22 We're really focused on identifying solutions
23 that will also make it feasible and cost effective to be
24 able to scale new innovations and technologies to rural
25 disadvantaged communities. And there's also urban

1 disadvantaged communities, I should note. But because
2 of the geography we cover, most of those tend to fall
3 within the rural setting. And so we're looking for ways
4 to try to take whatever is developed in the university
5 labs, in the facilities that our ecosystem houses, and
6 making sure that there's a way to get those out to some
7 of the more remote, maybe less cost-effective localities
8 within the region.

9 We're, also, we're definitely interested, I
10 think Eric hit on this on his comments, as well, but
11 we're definitely interested in helping reduce the cost
12 of doing business for our ratepayers, the people that I
13 mentioned earlier. And I think energy efficiencies and
14 renewable energy technologies is one way for us to
15 accomplish that. And they're actively looking for new
16 ways to be able to embed those technologies into their
17 operations. And while we see that a lot in the farming
18 community, we're seeing it more and more in the food and
19 processing industry, as well.

20 And then there's also an added goal of helping,
21 using these technologies to reduce the carbon footprint
22 for their business operations, whether it be on the farm
23 or in an industrial setting.

24 This is the TIE process, the Technology
25 Innovation Evaluation process that we operate. This is

1 a triage process that we use when we have an
2 entrepreneur startup approaches for services under this
3 project. It's detailed there, and I won't go into too
4 much information today. But essentially what it does is
5 it creates a filter for us to be able to verify who the
6 promising ventures are, the ones that are little bit
7 more commercialable, that have more ducks in the row and
8 have done things like business plans. And we walk them
9 through the process. Some make it further than others.

10 For those that need help, a little bit of
11 handholding along the way, we do offer those services.
12 There's commercialization support. There's an incubator
13 that we have on campus, specifically for these types of
14 businesses. There's testing facilities, demonstration
15 facilities for them to calibrate their products and
16 services. And then there's an ecosystem and a network
17 for them to tap into for mentorship for possible venture
18 capital and other types of funding. And so a lot of
19 that is housed at Fresno State, but we also have several
20 of those facilities and pieces of that ecosystem
21 throughout the 39-county region.

22 Up to date the 92 ventures have gone through
23 this process, and this is in about a 12-month period.
24 Since we've been awarded funding, 92 ventures have gone
25 through the triage process. Thirty of those ventures

1 have made it past the first screening process. Sixteen
2 of those 92 ventures, which is about 17 percent, are
3 located in disadvantaged communities. There has been --
4 of those 30, we've spent about \$1.9 million of capital
5 infusion that has occurred, specifically for four of
6 those. One of them received a \$1.5 million CEC grant,
7 so thank you. We have another one that received
8 \$150,000 grant from CalSEED. And then we have two other
9 smaller ventures that received a combined \$250,000 of
10 private capital, venture capital. So we're at \$1.9
11 million now with those 30 ventures.

12 The next slide please.

13 One thing I wanted to note, just to tell you how
14 important your dollars are and the taxpayer dollars are,
15 is that we've been able to leverage these dollars to
16 capture half-a-million dollars' worth of federal
17 investment. And so your investment helped us secure the
18 match funding necessary to receive an EDA i6 Challenge
19 Grant, very competitive grants. Our university has been
20 trying for -- this is the fifth year we've been trying
21 to get these funds, and we finally got them. And I
22 think the fact that we had the CEC funding was a big
23 reason why. And so just know that we are using your
24 dollars and we're turning them into another half-a-
25 million dollars to provide an additional layer of

1 services for the ventures that go through our triage
2 system.

3 And this Valley Ventures Program that's being
4 funded through the feds, and the website is down below,
5 it's meant to accelerate the superstars that come out of
6 the triage program. And so it's not a service that
7 every single venture that goes through the CEC grant-
8 funded program will experience. It's reserved and meant
9 for the ones that are really high level. And this is a
10 funding that's in place beginning this fall. And it
11 will allow us to really focus our efforts on the high-
12 achieving ventures.

13 And so the next slide has our outreach
14 materials. We have a deadline right now of August 15th
15 for any ventures that meet the requirements for this
16 additional funding. We are encouraging them to register
17 and apply for the services, because there is limited
18 space for the cohort. And we're hoping that, by being
19 here today, you will know of some potential candidates
20 that you can send our way for both our programs.

21 And with that, I want to just thank you for the
22 time and the opportunity to present. And I'm happy to
23 answer any questions at the end of this panel. Thank
24 you.

25 MR. ECKERLE: Great.

1 So our next speaker is Ed Lopez, and he'll be
2 presenting the Groundwork San Diego-Chollas Creek
3 Advanced Energy Community.

4 MR. LOPEZ: Thank you very much, Eric.

5 And thank you, Commissioners, CEC and CPUC, for
6 the invitation and opportunity to join you this
7 afternoon. I'll present, and I'll try to be brief, some
8 of our progress on the EPIC Grant that we're working on
9 and give you some of our thinking and efforts, and also
10 some of the observation and lessons we have learned.

11 So again, as you look at what we now call
12 Chollas EcoVillage, our goal and hope will be to make it
13 an advanced energy community. That's the neighborhood
14 of Encanto. And just looking at that, you might be able
15 to see some -- the community highlighted with the blocks
16 right there, hemmed in by major freeways sort of to the
17 right of the picture. And in the middle of the screen,
18 that green meandering line represents the Chollas Creek
19 waterway as it works its way through our community and
20 towards the upper end of the photo, down to San Diego
21 Bay.

22 A little bit about us, as we go to the next
23 slide -- oops, and there we are -- Groundwork San Diego,
24 we've been around for over a decade, invested in
25 environmental justice work, in collaboration and in

1 support and in partnership with all of our community
2 stakeholders. Originally, our work grew out of
3 watershed management of the Chollas Creek. And we've
4 added in activities and programs over the years. The
5 latest one, the Chollas Creek-to-Bay Bikeway, a large
6 project, countywide, we're working to ensure those
7 benefits and improvements go along and benefit our
8 community residents.

9 We have a partnership with UCSD. And
10 principally in our community, we have an Earth Lab, an
11 outdoor, educational classroom. Annually, we serve and
12 touch more than 2,000 students with educational
13 environmental activities. And that represents over
14 17,000 student hours on an annual basis.

15 Lately we've added in some DWR water
16 conservation upgrade work. A And that's also helped to
17 inform our outreach efforts and how we can engage and
18 involve our community residents.

19 And we're just starting the very early and
20 preliminary work to develop and design the plans for a
21 Chollas Creek Regional Park. That will be of tremendous
22 benefit and a huge win for our community.

23 Next slide please.

24 As we look at our DAC, and ultimately the EPIC
25 Grant, it should not surprise, perhaps, you, but we have

1 incredible and great diversity. It's a huge value. Of
2 course, we have specific challenges, a CalEnviroScreen
3 score greater than 80 percent. But if you look at that
4 diversity with Hispanics, that's 61 percent, but we have
5 significant African-American and Asian-Pacific Islander
6 populations, as well.

7 Of the residential element, we have
8 predominantly renters in our community, even among the
9 single-family units in the neighborhoods. The AMI,
10 \$36,000 approximately. And we have free reduced lunch
11 programs at all of our schools, and the majority of the
12 students found at the local schools are on free and
13 reduced lunch.

14 Our effort, under the EPIC Grant, and then I'll
15 share with you subsequently in the next few slides, it's
16 a master plan, that older, urban neighborhood of
17 Encanto, into an advanced energy community which we call
18 Chollas EcoVillage. Not only do we want to create a
19 model of how you engage and involve your DAC residents
20 and how they participate, but we also have a focus on
21 actually bringing forth some projects that will generate
22 renewable energy that the residents can access.

23 We have a number of partners, but two specific
24 and strong ones include our local public school, San
25 Diego Unified. You may be aware that they're considered

1 a leader in the K-12 field when it comes to smart
2 energy, energy efficiency. They have really done a
3 fabulous job on the Prop 39 resources and plans right
4 there.

5 And also, as well, we're supporting the City of
6 San Diego. Awhile back they did adopt a Climate Action
7 Plan. And just as a brief aside, you may be aware that
8 they, within the last few weeks, a month or so, had
9 issued their CCA Plan, so they're certainly moving down
10 the pathway. We see our ZNE Master Plan as being able
11 to support both of those institutions.

12 We did begin with and still roll out a community
13 outreach program. In fact, we branded it as Energizing
14 Our Future. Our partners, including CSU Fullerton
15 administered and are continuing to administer a survey,
16 trilingual, English, Spanish, and Tagalog for our
17 community residents. We knew going in there would be
18 specific challenges. We so those every day. We've
19 tried to really fit with the profile and the uses of
20 folks, of how they wish to communicate and when they
21 want to receive the messaging, how they'll take that
22 content and info.

23 So not only do we use traditional print and
24 broadcast media, but we also utilize Facebook. Add we
25 have a Take the Pledge mini campaign that's both there

1 and over the smart phone where you can text it over a
2 smart phone. All we've done is sort of publicize and
3 promote the text number at the end-user's end. At their
4 time, they can go ahead and text, and then there's a
5 series of short video vignettes that sort of run through
6 a gambit of a number of issues related to climate
7 action, energy efficiency.

And w

8 have Climate Action Ambassadors. And I'm actually
9 hoping, if we either click on the link or on the screen
10 shot, we might be able to just do a brief sample, five
11 or ten seconds or so. Oh, no sound.

12 (Whereupon a video is played and not transcribed.)

13 MR. LOPEZ: Thank you very much. Thank you.

14 She's a young student in one of our middle
15 schools, and she's doing a fabulous job, obviously very
16 bright. But she'll work with her families, and the
17 other students with work their families, as well as
18 community members, and really introduce some of the
19 topics, and also work with them on the local utility
20 account management tools, and get them introduced and
21 sort of work through there.

22 Some of the lessons we've learned, as we look at
23 the next slide, from the outreach effort I think is very
24 consistent with our first presenter. And really, if you
25 think about the big picture, maybe the first and last

1 bullet points, nothing else other than demonstrate, yes,
2 we understand in a DAC, cost saving considerations are
3 huge an significant. But we've come to learn, residents
4 are also motivated and interested in participating, and
5 perhaps transforming their behavior, because they, too,
6 recognize the social, societal benefits, the community
7 benefits, as well. So it goes beyond simply cost
8 savings considerations, but at the same time that's
9 obviously a huge consideration for residents who are
10 challenged financially.

11 We would support, I think you've heard echoed
12 today, the need for trusted community-based
13 organizations to be involved. That certainly is the
14 case now. And unfortunately, we have observed in our
15 Chollas EcoVillage, among Latinos and others, that sort
16 of given the sort of national climate, there's a
17 reticence and reluctance to engage, to talk, to
18 literally even open doors. They're not quite sure who's
19 coming into their neighborhoods. But when you can
20 utilize fellow residence, other institutions, we've
21 turned to faith-based organizations, and partnering with
22 them to help reach our DAC residents -- we've also
23 utilized sort of a neighborhood block captain model
24 where we'll have on a number of blocks a homeowner who's
25 been there for a number of years. They're engaging in,

1 perhaps, water conservation upgrades or energy
2 efficiency upgrades, or maybe they've also installed a
3 solar PV system, they'll open their house sort of as an
4 open house, or maybe even hold a block party. We've
5 tried that out as well.

6 The materials must be cultural competent. And
7 again, in these households, there's multi generations.
8 So you have to think about who's the decision maker
9 within the household, but who will also influence that?
10 So we see all of that. And we think if you sort of put
11 that together you can overcome the barriers that have
12 been identified in the SB 350 Report.

13 Next slide please.

14 As we turn, then, our attention to how we're
15 looking at generation, we're proposing and continuing to
16 draft in our master plan some possibilities for some
17 community renewable projects sited in our DAC. And here
18 we're thinking it makes sense, and we'd realize to
19 utilize public-private partnerships, including, again,
20 San Diego Unified School District and the City of San
21 Diego, and have a diverse array of technology.

22 So we are looking at community solar at our
23 Earth Lab site. We're also thinking we can do fuel cell
24 at the same site, as well. And then maybe have some
25 solar PV at some additional school sites within the

1 community.

2 With the City of San Diego and the closed
3 Chollas Landfill, we have engaged in conversation with
4 them already about a bio-digestive technology ought to
5 generate some energy. We have received a lot of
6 interest. And I think there's opportunities to not only
7 address the renewable energy generation portfolio, but
8 also some unique regulatory standards in the case of the
9 City of San Diego and what they're going to be doing
10 with their food waste -- or addressing their food waste
11 regulations. And then simply with the school district
12 helping us, able to minimize site cost and lower project
13 costs to really demonstrate the viability of our
14 business modeling.

15 As we've looked at these potential projects, UC
16 San Diego has really been a critical technical and
17 environmental justice partner. There at UCSD, the
18 Center for Energy Research is the entity we rely upon.
19 At every one of our Technical Advisory Committee
20 meetings, they make presentations. And some of the list
21 of topics on the right-hand side, you can see, looking
22 at potential locations for these DERs, the community
23 load requirements, the capital costs, the levelized
24 costs of energy. So they've really been helping our way
25 through there.

1 As we think about the possibility for these
2 projects, we are looking to take advantage of an
3 existing program pathway. And we've had a really good
4 relationship with SDG&E, so we are looking at their
5 EcoShare, their SB 43 program, to see if we can bring
6 these projects online and provide that accessibility to
7 the local residents.

8 As you may be aware, SB 43 programs and SDG&E's
9 EcoShare allows for their local customers to purchase
10 renewable energy from community-based projects. The
11 customers, as sort of the model on the right identifies,
12 will receive a credit on their ongoing SDG&E bill, plus
13 they'll pay the subscription costs into the project.
14 Our goal is to make those two bill elements, the ongoing
15 SDG&E bill with the credit, plus the subscription price,
16 affordable and, in fact, lower than, essentially, their
17 current energy costs. It's quite a challenge. But
18 right now the business modeling is looking promising
19 because, again, we're looking at trying to think
20 through.

21 And where are the underutilized assets, perhaps,
22 in a DAC? School sites, school campuses that may go
23 relatively unused for as much as 180 days of the year.
24 So we're looking at, again, siting some of the renewable
25 projects on property that's being transferred to the

1 school district, vacated by Caltrans. And we also have
2 had conversations, and we think a key to, perhaps, the
3 model is looking at key institutional partners to
4 helping sustain the business model by actually
5 subscribing themselves to take energy there.

6 In our master plan, as well, we certainly want
7 to integrate EV adoption. And this largely stems from
8 our ongoing efforts, again, in partnership. We have a
9 wonderful partner with UCSD.

10 And, in fact, if I can, and it will just take a
11 second right here, our UCSD folks just emailed me, and
12 they wanted to let you all know that today Nissan
13 dealers in San Diego and Orange County started to offer
14 all eligible SDG&E customers a \$10,000 special rebate
15 off the MSRP on the purchase of a new 2017 Nissan Leaf
16 electric vehicle. It brings EV affordability a
17 significant step closer to DAC residents. And this is
18 an extension of the successful program between UCSD and
19 Nissan that has been ongoing for nine months.

20 So we're very glad to hear we have these
21 innovative partnerships in the work. And again, with
22 UCSD, we've been trying to address not only the
23 affordability consideration here working with OEMs for
24 the -- in the used/secondary EV market, looking at other
25 incentives, including any bills that are currently

1 making their way through legislature, like AB 1184.

2 We also are trying to put it all together,
3 because we have about 400 UCSD employees that reside in
4 our own DAC, and many more that reside in other DACs
5 throughout San Diego, so we think there's an opportunity
6 to market there.

7 Per the VW settlement, we also are proposing
8 that some of the charging stations be located in our
9 DAC, as well, and at some of the MUDs in our community.

10 So we have experience. And we certainly have
11 learned in terms of the outreach. We have some projects
12 that we'll be proposing as part of the master plan to
13 generate renewable energy and create and make that
14 accessible and affordable for DAC residents. And the
15 master plan will include elements of EV adoption.

16 The last slide then is us. This is our team.
17 We thank you again for the grant, for the opportunity.
18 And we feel very confident we'll deliver an exciting and
19 innovative master plan for you.

20 Thank you.

21 MR. ECKERLE: Okay. Thanks Ed.

22 Our last final presenter for the day is John
23 Harding with Charge Bliss. And he'll be presenting on
24 two projects, the City of Carson Advanced Energy
25 Community, as well as the Kaiser-Richmond Renewable

1 Microgrid.

2 MR. HARDING: Yeah. Thank you. I'm John
3 Harding. I'm the --

4 COURT REPORTER: Get your mike a little closer.
5 Thanks.

6 MR. HARDING: No problem. Yeah.

7 I work for Charge Bliss. We are a small
8 business based out of Southern California. I'll just be
9 brief and go through the two projects that were we were
10 fortunate to be funded through the CEC for.

11 Next slide please. Okay.

12 So the first one we're doing, which I'm happy to
13 report actually just went live today, we just had
14 powered on the solar and the batteries, but it's Kaiser
15 and Richmond. And it's a 50-bed hospital. Just, you
16 guys pretty much know the location. It's the only
17 hospital in Western Contra Costa. It's an adult
18 critical care, emergency room, community health
19 facility. And it's obviously OSHPD governed, which
20 creates its own massive amount of challenges that we
21 have amazingly navigated. Not to pat ourselves on the
22 back, but it was a fun one.

23 Next slide please.

24 Some of the project goals are, obviously, to
25 identify and surmount the obstacles for healthcare

1 facilities, to promote microgrids for them. And there
2 were quite a few, and some very valuable lessons learned
3 that we'll obviously be reporting up to the Energy
4 Commission. Demonstrate the viability really of
5 hospital microgrids and the benefits to the utility
6 ratepayers.

7 Some of the -- one thing to note that is really
8 different about our project, I would say, is that, I
9 believe, this is the first hospital in which OSHPD
10 helped us engineer the plans, and that we will be tying
11 into emergency power with the battery and solar, which
12 is usually just set up for Gensets, but this will be one
13 of the first. We will be able to demonstrate that we
14 could, for a time period, replace what a Genset will do.
15 Now it's not for the entire building, but it's just
16 under one of the life safety panel, which is still under
17 emergency power, so that's really exciting news.

18 Next slide please.

19 Some of the objectives, as well, standard value-
20 stacking items, really, here; demand reduction,
21 arbitrage, energy production inefficiencies, and again,
22 the ability to -- the one piece here is the ability to
23 island on emergency power.

24 Next slide please.

25 We actually had to set it up on -- the solar up

1 on top of a parking structure. Unfortunately, they're
2 very land-constrained up there. But here's a picture of
3 it.

4 Next slide please.

5 It should be the battery and inverter set up
6 here.

7 Next slide.

8 Our next project is ZNET Community in Carson.
9 Carson is a unique city in that they have 19 properties,
10 5 main buildings and 14 parks. And the parks are highly
11 utilized within the community for community centers and
12 community activities.

13 Next slide please.

14 Some of the things we're going -- we're planning
15 on doing is basically designing. Obviously, we'll be
16 doing design, shovel-ready design plans, incorporate EV
17 charging, LED lighting, heating and cooling
18 deficiencies, solar generation, batteries, these are
19 some of the components that we're looking at for our
20 advanced energy community.

21 Next slide.

22 In this project, we are looking at adding
23 anywhere from -- it's about 75, well, between Level 2
24 and Level 2, EV chargers sprinkled throughout all of the
25 parks and the actually City Hall Community Center that

1 they have, really trying to promote EV charging for the
2 residents in the area. The MUDs are not really large in
3 that they're not really huge apartment complexes. There
4 are a lot of two- and three-resident buildings. So the
5 idea is to open up the parks to overnight charging and
6 place the chargers in those parks, because each park is
7 surrounded by, actually, very nice neighborhoods,
8 really. But we're working with the city council and
9 speaking with them, even tonight, you know, to come up
10 with a plan to allow people to charge overnight.

11 This project is going to have anywhere from
12 three to four megawatt of solar, five-and-a-half
13 megawatt-hour battery. We're working with STEM
14 students, with CSUDH and ITEP (phonetic) and LAUSD,
15 yeah, and promoting. Obviously, we'll be incorporating
16 LED, building management systems, improved chillers.

17 Next slide please.

18 The city has 384 overall meters. There's about,
19 you know, 8.1 million kilowatt hours a year; we'll be
20 addressing 108 of those. Again, there's 19 properties,
21 31 meters, with an additional 77 that are under a TOU
22 rate plan. So the idea is to offset all of the
23 community that we're dealing with. But, unfortunately,
24 the remaining meters aren't part of something that we
25 can actually offset through a rate structure plan. But

1 in the end we'll still be offsetting about 68 percent of
2 the city's meters.

3 So next slide please.

4 And then, yeah, Carson, located in South Bay
5 area. These are just some statistics that -- and some
6 graphics for you guys to look at. Obviously, most
7 people are familiar with it.

8 Next slide please.

9 Again, Carson here. It's population, 91,000.
10 Certainly, ethnically diverse. There's your statistics
11 on housing, owning and renting. It's the third largest
12 city in the South Bay. It's a hub for a lot of dirty
13 air, for sure, with the industry that is there and the
14 highways that run right through it, and certainly
15 something that we are definitely trying to improve.

16 Next slide please.

17 Here's just kind of a general summary on what
18 site gets what. This is our approach on the AEC in
19 general.

20 Next slide.

21 And that's pretty much it, to be brief.

22 MR. STOKES: So, Commissioners, we're right at
23 3:30. Maybe we'll go to, do you have any comments or
24 questions for the panelists?

25 CHAIR WEISENMILLER: Yeah. I was going to give

1 a question on Mr. Herrera's presentation. And the thing
2 I thought was great about it was when I was in China was
3 Z Park. You know, and certainly we've got the
4 connection now between our incubators and theirs. They
5 also have a very disciplined approach. You know, there
6 was a question from some folks about do you want to --
7 should you just fly startups to China? And it was like,
8 no, do not. You know, it was like here's our very
9 focused program that goes through and trains people and
10 gets them set up. And if someone has passed that in one
11 of our incubators, then they would do more the video
12 connection, they would do some due diligence and decide,
13 do you have a chance in hell of getting any work out of
14 China, as opposed to here's your ticket to Beijing, show
15 up totally jet lagged and out of pocket, you know,
16 thousands of dollars, and then come back empty-handed.

17 But it was definitely one of those, you know,
18 here's a very disciplined approach to really go through
19 and make sure people have a business plan where they've
20 trained, you know, and then get to the point of saying,
21 okay, you know, does this product have a real viable
22 market in China? And if it does, then certainly they're
23 prepared to roll on it with you.

24 MR. HERRERA: Yeah. I know.

25 CHAIR WEISENMILLER: But again, it's, you know,

1 definitely not one of those, start sending people from
2 Fresno tomorrow under the theory that, you know, maybe
3 something will click.

4 MR. HERRERA: Right. No. That's a great
5 suggestion and we'll definitely look into expanding on
6 that. And as I mentioned in my presentation, aside from
7 the CEC filter that we've created --

8 CHAIR WEISENMILLER: Right.

9 MR. HERRERA: -- there's an additional filter,
10 an additional layer of services from the federal money
11 that will -- I think those are the people that --

12 CHAIR WEISENMILLER: Yeah.

13 MR. HERRERA: -- are really going to be
14 candidates for something like this China opportunity.
15 And so I will definitely take your suggestion and --

16 CHAIR WEISENMILLER: Yeah.

17 MR. HERRERA: -- work with our team --

18 CHAIR WEISENMILLER: Yeah. I mean --

19 MR. HERRERA: -- and see what we can do.

20 CHAIR WEISENMILLER: -- I think there's a lot of
21 opportunity there. They certainly want to invest.

22 Obviously the other, you know, suggestion

23 (indiscernible) was that people be more significant

24 companies. You know, again, the IP issues can be tough

25 there. And if it's, you know, again, if you're sort of

1 a one-man shop that has just a concept, you know, it's
2 not likely you're going to get very far. But certainly,
3 there are a lot of very substantial companies.

4 MR. HERRERA: Yeah. And I mentioned the capital
5 infusion that has come in already within the 12 months
6 that we've had your funding, those four companies, I
7 think, would be some of our early candidates to consider
8 for an
9 opportunity --

10 CHAIR WEISENMILLER: Uh-huh.

11 MR. HERRERA: -- like this --

12 CHAIR WEISENMILLER: That would be good. Yeah.

13 MR. HERRERA: -- their help on campus at the
14 incubator.

15 CHAIR WEISENMILLER: That would be good.

16 MR. HERRERA: Thank you for your suggestion.

17 COMMISSIONER MCALLISTER: Yeah, just quickly, a
18 couple of hopefully quick questions.

19 First, I just want to say congrats to Ed, and
20 thank you for being here. This is a great panel, all of
21 you. But having just gone down to visit you guys, I
22 would just highlight that part of what makes a project
23 like that real just ripe for success is the leadership
24 that you and your counterparts show that bring that
25 gravitas. And, you know, you're, as leaders in that

1 community, you're saying, okay, we think this is
2 important. And that becomes much more easy in the
3 community to sort of really around. And I think that
4 sort of role, positivism and leadership, is -- we need
5 more of that up and down the chain, but in particular in
6 the local communities, you know, down within the cities
7 and within the counties.

8 And so I want to just say thank you for that
9 because I think it's really important. So, you know, I
10 just wanted to give you credit where credits due on
11 that. So thanks.

12 And then I have two questions, one for Catalina
13 if she's still on. I'm not sure if she's still
14 listening in.

15 MS. LAMADRID: I am.

16 COMMISSIONER MCALLISTER: Great. So you, in
17 your recommendations, you brought up the need for
18 Hispanic contractor network, and I totally agree.

19 MS. LAMADRID: Yeah.

20 COMMISSIONER MCALLISTER: And I think that's
21 great. I guess I'm wondering if you -- I mean, for many
22 reasons, obviously, that's a good thing.

23 I guess I'm wondering if you, in your surveys
24 and in your work, did you ask questions specifically to
25 the families about how likely -- or what they're looking

1 for in a contractor, or how likely, you know, they're
2 going to pick one criteria? You know, which criteria
3 are really the ones that they utilize to choose a
4 contractor, to look for a contractor, you know, and sort
5 of that cultural element that you were referring to --

6 MS. LAMADRID: Yeah.

7 COMMISSIONER MCALLISTER: -- and what that looks
8 like?

9 MS. LAMADRID: Yeah. We did ask them general
10 questions. I mean, the study was broad, so we dug, you
11 know, as deep as we could. There were questions about
12 how do you go about finding somebody to do work in your
13 home. There were questions about, you know, do it
14 yourself type of work versus (indiscernible) networks.
15 And really what came out of it is, you know, personal
16 connections. A lot of the people said that they will
17 try to do things first themselves first, or a member of
18 the family. Then they said that they would turn to
19 friends and would ask.

20 COMMISSIONER MCALLISTER: Uh-huh.

21 MS. LAMADRID: \Like the majority of the
22 contractors they work -- that they work with were
23 Hispanics themselves.

24 Now I didn't talk about the recommendation. But
25 I would say in my work in other jurisdictions, that is

1 part of the issue that we usually don't think about.
2 Like I feel like we focus a lot on the engagement, and
3 as I mentioned, the community-based organizations. But
4 often times, if these type of programs have certain
5 requirements for, you know, using a certain like
6 contractor to do the work, and if those networks don't
7 exist, then these communities cannot participate.

8 COMMISSIONER MCALLISTER: Uh-huh.

9 MS. LAMADRID: And, you know, obviously, the
10 other thing that I think also the EcoVillage project
11 highlighted is, you know, word of mouth spreads like
12 wildfire in this community. So what we've seen is that
13 there are certain contractors that are so successful at
14 just engaging, you know, all the homes in one block and
15 working with them within a community. But again, if
16 that network is not there, then you're leaving everybody
17 out.

18 COMMISSIONER MCALLISTER: So thanks. And I want
19 to just point out the sort of tension between having
20 this very kind of local, you know, along the continuum,
21 down towards the do-it-yourself-er, but also needing
22 quality work to reach our policy goals in there. So
23 there's sort a bit of an inherent tension there.

24 MS. LAMADRID: Absolutely.

25 COMMISSIONER MCALLISTER: So, you know, how do

1 we ensure we get quality, but also really get down to
2 the local level? And I'm not proposing, you know,
3 solutions to that, but I think that's kind of what we're
4 here for, is to figure that out and move forward on the
5 recommendations and deepen. So I'm really looking
6 forward to seeing your final product.

7 MS. LAMADRID: Yeah. And, you know, a quick
8 thought on that, I know we're out of time but, you know,
9 definitely there's a need for it. And there a
10 strategies, you know, offering certification workshops
11 within the communities for the contractors --

12 COMMISSIONER MCALLISTER: Yeah.

13 MS. LAMADRID: -- making sure that you're doing
14 outreach with them, doing it in Spanish. Sometimes you
15 need to -- some of the utilities have really strict
16 insurance requirements.

17 And I understand there's a balance between
18 quality. But, yes, there will be some recommendations
19 we'll provide. And I definitely think it's something
20 worth looking at.

21 COMMISSIONER MCALLISTER: Great. Thanks very
22 much.

23 And then just quickly for John, I have a
24 question.

25 You mentioned DR as one of the kind of layers in

1 your value proposition, automated demand response, and
2 you're trying to do some of that. I guess I'm kind of
3 wondering, in brief, how it's going? And I also want to
4 point out next week's Demand Response Workshop. We're
5 going to have some service providers that are along the
6 lines of your business model at that one, as well. And
7 again, it's a nut we're trying to crack to scale up the
8 opportunities in demand response, and the real results
9 we're getting from it. So I'm kind of interested in
10 your experience there.

11 MR. HARDING: Yeah. As of now the hospital, we
12 just went live today. So, unfortunately, I don't really
13 have any data yet but will soon, and be able to provide
14 that really soon.

15 CHAIR WEISENMILLER: I was just going to point
16 out to you that Diana Dooley, who certainly some of us
17 know from Brown 1, is very interested in the energy
18 efficiency issues. And certainly, as you run into
19 issues with our fellow agency, if you bring them to
20 Andrew or my attention, we can try to get them resolved
21 more at a higher policy level.

22 MR. HARDING: Okay.

23 MR. CAMACHO: I have a quick question for
24 Catalina, if I may.

25 Are you still with us, Catalina?

1 MS. LAMADRID: Yes.

2 MR. CAMACHO: Okay. I was actually very
3 interested. Thank you for your study. And perhaps I'm
4 actually personally interested in reading it. If you
5 could submit it for the record, that would be great.

6 I was interested in your --

7 MS. LAMADRID: Uh-huh.

8 MR. CAMACHO: -- sample size, actually. And
9 also --

10 MS. LAMADRID: Uh-huh.

11 MR. CAMACHO: -- I assume by Hispanic, you're
12 going by the census definition; right?

13 MS. LAMADRID: Well, for participation in the
14 study, we asked people to self-identify.

15 MR. CAMACHO: Okay.

16 MS. LAMADRID: We, you know, didn't really have
17 -- want to get a diversification of those things. There
18 were some immigrants that we interviewed, a lot of
19 first-generation. And they're aware, I mean, mostly as
20 the composition of California, mostly as Hispanic --
21 Mexican descent. But we also had Puerto Ricans,
22 Columbians and Guatemalans.

23 And in terms of the sample size, so we had -- I
24 mentioned there were different interview or research
25 methods. We engaged, I believe, 11 or 12 experts that

1 worked with the utilities, that work with CBOs,
2 different government bodies with Hispanics. So that was
3 the first layer of subject matter expert interviews.

4 We then used a journaling approach. So we kind
5 of gave site participants a seven-day journal that they
6 needed to complete that asked them to talk about their
7 day-to-day use of energy, but also some (indiscernible).
8 And we had over 50 completed, and some incomplete ones.
9 And then we did 18 in-home interviews which lasted three
10 hours, a lot of good talkers and a lot of good
11 information there.

12 But that was -- yeah, those were the numbers for
13 onsite participation.

14 MR. CAMACHO: Thank you.

15 COMMISSIONER SCOTT: I wanted to make maybe just
16 a quick observation between the previous panel and this
17 panel.

18 And with the small businesses, I'm thinking,
19 Ismael, about the Valley Ventures Accelerator Program
20 and like, oh, wow, I wish they were here still to hear
21 about that. And I know it's still a competitive process
22 and all of those things, but it's a great opportunity.
23 And I know maybe matchmaking was too strong of a word.
24 But the connections and the networking there, I think,
25 are really important.

1 And, Ed, I kind of had the same thoughts, and I
2 wanted to thank you so much. I also had a chance to
3 visit Groundwork San Diego and see the project. And you
4 all were fantastic. It's a really inspiring plan that
5 you are putting together there. And that's another
6 great opportunity, right, for small businesses and local
7 businesses, right, to really directly engage and
8 participate.

9 So maybe there's no question there, necessarily,
10 but I just wanted to kind of bring a connection between
11 this excellent panel and the one we had before.

12 MR. LOPEZ: Thank you very much. Yes, we've
13 been fortunate to both have Commissioner McAllister and
14 Commissioner Scott join us. And you're absolutely
15 right, lots of opportunities, lots of barriers and
16 challenges still that remain and to overcome. But we
17 think some really good public-private partnerships can
18 find some innovative and unique solutions.

19 COMMISSIONER GUZMAN ACEVES: Quick question for
20 John.

21 What is the size of your island life-safety
22 backup?

23 MR. HARDING: The size of the panel?

24 COMMISSIONER GUZMAN ACEVES: Well, how many
25 megawatt hours or how many --

1 MR. HARDING: Actually, it's a 400 amp panel.

2 COMMISSIONER GUZMAN ACEVES: Okay.

3 MR. HARDING: So --

4 COMMISSIONER GUZMAN ACEVES: So it's -- what
5 does that translate into? Not very much; right? I was
6 looking at the --

7 MR. HARDING: Yeah. It's not a very large
8 panel. No.

9 COMMISSIONER GUZMAN ACEVES: Yeah.

10 MR. HARDING: It is safety lighting, sirens,
11 things of that nature are off of that panel. It was
12 really, in this particular case for this hospital, it
13 was really hard to find a panel that we could panel,
14 essentially, constantly. I mean, if the sun is out, and
15 for how much battery we have we could actually
16 continuously power that panel for more than the three
17 hours that are required. But the way the hospital is
18 set up, the electrical layout, it just wasn't ideal to
19 go to other panels. They were just --

20 COMMISSIONER GUZMAN ACEVES: Uh-huh.

21 MR. HARDING: The routing of how you had to tie
22 into them, the shutting down process, which is a really
23 difficult process for a hospital to shut down at all,
24 and, yeah, those complexities really drove us towards
25 this. Really, we had about one option for a panel. We

1 would like -- yes, we would love to dump into all of our
2 emergency power and demonstrate that we can power
3 instead of -- you know, with batteries instead of
4 Gensets, but it just wasn't the case in this particular
5 hospital.

6 COMMISSIONER GUZMAN ACEVES: And I just was
7 wondering, in terms of the Carson zero-net energy
8 community, obviously down in San Diego -- and we've
9 heard, and I know you've funded some in Fresno. I'm
10 just wondering if there's some value in some cross-
11 learning?

12 And one of the things that came up in your
13 presentation, Ed, you mentioned the SB 43 kind of
14 community solar option. And we have a proceeding, I
15 mentioned earlier, on the Net Energy Metering
16 proceeding, where, just stating the facts here, that the
17 utilities have proposed basically an option around SB
18 43. And the schools have proposed a different option.
19 And your description was a little bit in between both of
20 those proposals.

21 So I would ask for you to maybe spend a little
22 time, if you could, on what's been presented. And I
23 would be really interested in your recommendation on how
24 we should move forward. And that would be, you know,
25 something that I know has come up from some of the

1 community folks in Fresno. I haven't heard much from
2 Carson. But I do think it's something that is kind of
3 picking up.

4 CHAIR WEISENMILLER: Well, I was going to say,
5 what we have done, and maybe planned or not, but we can
6 certainly not have chosen to do that, is where we do
7 these sort of microgrid projects or zero-any projects,
8 at some point to bring together the number of entities
9 doing these to try to go through the lessons learned.

10 If I remember correctly, we did this on ZNE, oh,
11 I'm trying to remember whether it's one year or two
12 years. I mean, at this point, they sort of blow
13 together. But I remember that conversation, you know,
14 as we were doing one of the studies on stuff. So I
15 think that would be a good forum. And again, you know,
16 certainly these tend to be pretty staff intensive,
17 although I think I was at least at some of the ones
18 before.

19 You know, again, I try not to, you know,
20 suddenly discover they can't find a slot on my schedule
21 for six months or something and everything sits. But,
22 you know, they find the right balance there to keep the
23 conversations going.

24 But, you know, certainly, we can give you a
25 heads-up when they're coming along, you and the PUC

1 staff, yeah, for that type of --

2 MR. LOPEZ: It's a great suggestion. CEC staff,
3 at the beginning of sort of this whole grant cycle, did
4 a wonderful job of bringing us together. I think it was
5 tied to when you launched your showcase. And you're
6 absolutely right, there's a lot of benefits to
7 understanding how other projects are starting to address
8 and propose solutions to how you -- what pathways do you
9 take advantage of, what are the programs, challenges,
10 how do you make it affordable, how do you actually bring
11 together everything, including private capital, which is
12 going to be huge?

13 So, yes, we would look forward to that. And we
14 can provide some comments on the various rulemaking and
15 legislative acts to address that.

16 MR. HERRERA: And I could quickly piggyback off
17 those comments and brief inviting you all, but our
18 office is part of another EPIC project that's related to
19 what I presented today. It's the Biodeco Zero-Net
20 Energy Farm in Five Points, California. And I wanted to
21 invite -- take the opportunity to invite you all, and
22 the staff from both Commissions and those in the
23 audience, to join us on November 2nd at the Tulare
24 Energy Center, the Southern California Edison Tulare
25 Energy Center, where we'll have a summit symposium

1 highlighting the zero-net energy features at this farm
2 and some best practices that have come out of that. So
3 you're all welcome to attend.

4 CHAIR WEISENMILLER: I know when I've been down
5 in Fresno, it was pretty clear, your institution is very
6 close to the community there, particular the
7 agricultural community, in that you -- obviously, a lot
8 of us, as we think about water or, say, tend to think
9 of, say, Davis. But it's pretty clear in that area, you
10 know, Fresno really is a key part of the community and
11 the community leadership.

12 MR. HERRERA: And I appreciate that.

13 I also want to add that our efforts in the
14 disadvantaged communities have also been recognized
15 nationally by a body of our peers a couple of years ago.
16 So we have a very strong Rural Development Center that
17 engages stakeholders. So coupled with what we do with
18 industry, we're positioned to offer projects like this.

19 Thank you.

20 MR. STOKES: Well, thank you, Commissioners.

21 And a big thanks to all our panelists.

22 MS. RAITT: So we'll go ahead and get set up for
23 our last panel on Front Load Efficiency Opportunities.

24 All right, so we'll go ahead and get started.

25 Our moderator for this panel on Plug Load Efficiency

1 Opportunities is Robert Ridgley from the California
2 Energy Commission.

3 MR. RIDGLEY: Thank you. My name is Robert
4 Ridgley. I work in the Existing Buildings and
5 Compliance Office in the Efficiency Division at the
6 California Energy Commission. I will be the moderator
7 for today's panel on Plug Load Efficiency Opportunities
8 for Low-Income Households.

9 Could we have the next slide please?

10 We're fortunate to have a strong expert panel
11 for today's discussion. Our panelists are Anne Arquit
12 Niederberger from Enervee, Lisa Schmidt from home Energy
13 Analytics, Joy Pixley from the UC Irvine California Plug
14 Load Research Center, and Marti Frank from Energy For
15 Everyone, who is joining us via WebEx.

16 Next slide please.

17 So the fifth recommendation from the Barriers
18 Study report, excuse me, calls for the legislature to
19 require collaboration among all program delivery
20 agencies to establish common metrics and collect and use
21 data systematically across programs to increase the
22 performance of these programs. In addition,
23 recommendation 5E (phonetic) recommends to ensure that
24 low-income persons have product selection options and
25 information necessary to avoid driving up their plug

1 load energy use.

2 Next slide please.

3 So the Low-Income Barriers Study Report
4 identified a number of issues for consideration when
5 developing strategies for increasing plug load
6 efficiency in low-income households and disadvantaged
7 communities.

8 This slide and the next highlight major issues.
9 And the main takeaways are understanding appliance and
10 plug load use characteristics and how low-income buying
11 habit different from those of the general population can
12 lead to program designs that address the needs of low-
13 income households. Programs should be guided by the
14 real energy needs of low-income households, rather than
15 relying on established programs like ENERGY STAR.

16 Continuing on, plug load result in a large
17 portion of a low-income household's electricity needs.
18 Low-income households and building owners tend to buy
19 lowest-cost products that are not as energy efficient.
20 And obtaining information on energy efficiency and
21 lifecycle energy costs of a device is time consuming,
22 and the information is not easily accessible.

23 Next slide please.

24 So the charge for the panel today is to identify
25 opportunities for expanding plug load efficiency to low-

1 income households. The four questions for today's panel
2 are: What unique barriers exist today for program
3 participation? How can data on low-income household
4 energy use and buyer behavior be improved to better
5 target program participants? How can incentives and
6 information programs be improved to focus on low-income
7 barriers? And finally, how can low-income households
8 and building owners be empowered to make better product
9 decisions to reduce energy use?

10 Each panelist will be given about six minutes to
11 provide a quick explanation of their role in plug load
12 efficiency, and to make his or her most important
13 recommendations related to particular aspects of these
14 questions. Overall, we will attempt to get answers to
15 all parts of the questions.

16 So with that as background, we'll begin with
17 Anne Arquit Niederberger.

18 MS. ARQUIT NIEDERBERGER: Okay. Thank you very
19 much.

20 So Enervee, we're based in L.A., and we're a big
21 data, SASS (phonetic), and behavior research company
22 that operates customer engagement platforms for
23 utilities. And we power these online marketplaces for
24 Los Angeles Department of Water and Power, PG&E, and
25 SDG&E right now, and so serving 60 percent of all the

1 households in California. And in addition, SCE and
2 SoCalGas have also been mandated by the PUC to have
3 these online marketplaces available by the end of 2017.
4 And in addition, we also have a national porter,
5 Enervee.com, that's available to everybody in the
6 country. So basically, everybody in California has
7 access now, or by the end of the year, to these online
8 efficient product marketplaces.

9 And I just want to say that this -- we've made a
10 ton of progress since the 2016 update to the existing
11 Buildings Energy Efficiency Action Plan that the CEC put
12 out in December where these marketplaces were actually
13 featured as a plug load market transformation strategy.
14 And so what I wanted to do in the short time available
15 was just talk about how these marketplaces can be
16 leveraged to address the barriers and to modernize low-
17 income programs. And I specifically want to emphasize
18 how big the opportunity is to take a much more market-
19 oriented approach than what we've done up to now.

20 So when we submitted comments to this, you know,
21 this docket, you know, about a year ago, we emphasized
22 that trends in big data availability, and also trends in
23 the modern shopping journey, how people actually shop
24 for products, that they've created a lot of new
25 opportunities to improve on low-income programs. And so

1 these marketplaces, they respond directly to exactly the
2 recommendation that you cited, to make it possible for
3 low-income customers to actually research and select and
4 buy efficiency products.

5 The vast majority of people nowadays, whether
6 they're -- regardless of age, regardless of their
7 income, whatever, they increasingly research and
8 purchase products online. And even the major domestic
9 appliances which, you know, traditionally people
10 actually bought in the store, the online sales of those
11 products increased just last year by 38 percent,
12 compared to 2015. And I'm sure you've been seeing
13 headlines where, you know, for example, Sears is going
14 to start selling Kenmore products via Amazon. So
15 there's a real trend towards online, and certainly for
16 research.

17 And low-income households are no exception
18 anymore. The 2016 LENA (phonetic) Study showed that 90
19 percent of households that they surveyed have access to
20 wi-fi in their homes. So it's not true anymore that
21 there's really this big digital divide in California.
22 And also, these people have a mix of computer, laptop
23 and smart phone access via wi-fi.

24 So I'm not going to be able to talk about the
25 actual features of the marketplace today. Obviously, we

1 don't have time. But if you're interested, there's also
2 going to be an event tomorrow here in the same room at
3 11 o'clock where we're going to do a demo and talk about
4 it in more detail. And all of the marketplaces are
5 publicly available that are already up and running, so
6 you can always check them out.

7 So what I just wanted to quickly highlight were
8 the main contributions that these online marketplaces
9 make to, you know, to fulfilling this recommendation
10 that you -- that the CEC put out. I think one of the
11 most important ones is that for the first time we're
12 able to remove a major barrier, which is market in
13 transparency. So because we have daily updated
14 information on every single product that's offered for
15 sale, including the best retail price every day and all
16 the energy characteristics, we can make efficiency
17 visible so that people can take it into account when
18 they shop. The second major -- and I'll come back and
19 give, really, some cool data that we have about this.

20 The second major contribution is that we can
21 empower low-income households to manage their energy on
22 an ongoing basis, and so not just, you know, come in and
23 treat the household through ESA (phonetic) every several
24 years with a few products, and then also maybe reduce
25 their energy bills, which is actually a disincentive to

1 invest in energy efficiency. So what we're able to do
2 with these marketplaces is engage people on an ongoing,
3 very meaningful basis. And there's huge potential then
4 to scale efficiency savings in this segment and to
5 mobilize low-income investment in energy efficiency.

6 And the third major contribution is that the
7 data that we have and the knowledge that we have about
8 how people respond to messaging and, yeah, I mean,
9 following up on a lot of things that previous speakers
10 said, we have a lot more information than we did a year
11 ago about how to improve and come up with really
12 innovative, low-income programs that will go far beyond
13 where we are today.

14 Just, let's see, I just want to say one thing
15 about the marketplace transparency. So what we have
16 that's new is a 0-to-100 energy efficiency index for
17 every single product model that's updated every day. So
18 it complements, obviously, the ENERGY STAR label, which
19 for many product categories in California is not of much
20 use. What we see from our data is that the range of
21 efficiencies among the ENERGY STAR can be, you know, a
22 factor of five, even, in some categories, from the worst
23 to the most efficient.

So just ha

24 they make product choices are double-digit more
25 efficient than when the score is not shown to them,

1 without any incentives. So we're really able to give
2 people information to make smart choices.

3 And that data is also backed up by actual
4 purchase information that we get from retail affiliate
5 programs, so we also work directly with the retailers.
6 And those data even show that people, they're not only
7 finding more efficient products and purchasing them,
8 they're also finding more efficient products that
9 actually cost less. So I think this is big news for
10 low-income energy efficiency.

11 And I -- you know, another thing just to point
12 out is that there are 15 times more people who receive
13 care subsidies than who are treated in a given year
14 through the ESA Program. So there's all these people
15 out there who, you know, in any given year are not being
16 served right now through these programs.

17 And also, the other point is that the products
18 that are actually covered by ESA are very limited, and
19 that low-income households are making many investments
20 every year in televisions, game consoles, all kinds of
21 consumer products.

22 So I know that time is short. I have a lot more
23 stuff I would love to say, but I feel I have to give you
24 guys a chance, as well.

25 CHAIR WEISENMILLER: Well, again, we're coming

1 up with the announcement of when written comments are
2 due. And I certainly encourage everyone to put stuff in
3 the docket, you know, if you've got reports that we
4 should be looking at. Please, you know, put them --
5 file them. And that's a way for not only us but, you
6 know, but for everyone else in this proceeding to get
7 that information.

8 COMMISSIONER MCALLISTER: Anne's on a poster out
9 in the lobby about the talk tomorrow, so check it out.
10 I definitely want to encourage people to come. I mean,
11 this whole panel, actually, is exactly what the AB 758
12 Action Plan elevated a couple -- a few years ago. And
13 so just the progress that we've made I think is really
14 impressive.

15 So anyway, I'll let Robert continue on with the
16 panel.

17 MS. SCHMIDT: Hi. My name's Lisa Schmidt.
18 Thank you for giving me the opportunity to speak today.
19 Just a little bit of background of who we are, Home
20 Energy Analytics.

21 My husband and I founded the company based on
22 the idea that you could take smart meter data, analyze
23 it, and help people reduce energy use in their home. To
24 date, we've analyzed about 6,000 homes, primarily in
25 PG&E territory. And we've participated in some other

1 studies analyzing energy use, as well. And we kind of
2 thought when we got into this project that plug loads
3 would end up being a far bigger portion of energy use
4 than was recognized by most of the studies going -- you
5 know, starting in about 2010, 2011.

6 And what we found is that that's definitely
7 borne out, that a lot of energy use goes to plug loads.
8 It's increasingly going to plug loads. But the really
9 good news is it's fairly inexpensive and usually pretty
10 straightforward to help people reduce those. So that, I
11 think, is very good news for low-income projects.

12 And I had four points that I wanted to make
13 about low-income projects. One is, talking about buying
14 new products is wonderful, and I know the CEC is working
15 hard on standards for new products, but there's a huge
16 backlog of old appliances and old products out there
17 that are going to be there for a very long time. So we
18 need to find some way in reducing how people use them,
19 not just improving new ones. So our focus is more on
20 how do you take people and teach them how to use the
21 products a little more efficiently so that they don't
22 suck as much useless energy?

23 I think we've done a bit of a disservice as an
24 industry in focusing only on asset improvements. And
25 what we found in our outreach with individuals is that

1 most people say, well, I really can't do much for energy
2 efficiency because I can't afford to remodel my home.
3 Well, you really don't need to do that to get good
4 energy efficiency, and our studies have borne that out,
5 as well. So I think we have to work on reeducating
6 people that there's a lot of things you can do inside
7 your home. They won't change your lifestyle, but
8 they'll make smart sense and you'll be able to reduce
9 your energy use, and they don't require a remodel. And
10 I think that's something all of us have to start working
11 on.

12 We are fortunate now, as an industry, to have
13 access to so much more data than we were, even five
14 years ago, AMI data, better data on appliances. But
15 we're not really, as an industry, utilizing this data
16 well yet. We're starting to. There's some really
17 exciting things about 802, forcing the release of
18 residential energy data, people having access to it.
19 But we really ought to focus on programs that engage and
20 use this data. And I'm specifically talking about AMI
21 data, but there's other data out there that we can build
22 programs on.

23 And I think we need to focus on a new paradigm
24 for doing energy efficiency programs, particularly in
25 low-income, but in all residential. And we used, in

1 other presentations, the doctor analogy. So when you go
2 to the doctor you get blood samples or you do other
3 work-ups, and then they look at that and say, well, you
4 may have these few problems that we need to tweak, and
5 then they help you tweak those problems. Then you wait
6 awhile and you resample the blood and you say, oh, well,
7 it looks like you're doing better, but maybe we tweak
8 again. So it's a continuous improvement. You measure,
9 you suggest some changes, measure again and restart the
10 process, so that you're continually improving it.

11 And that works particularly well with plug loads
12 because things like vampire loads, or base loads, or
13 stuff plugged in that you don't use anymore that's
14 actually drawing quite a bit of energy, even when it's
15 turned off. These are little changes you can make, you
16 can measure, and you can tell your success, and you can
17 keep going around and around.

18 So I think our recommendations for plug load
19 programs, and these apply to low income, is that we need
20 to tell people that plug loads can make a big
21 difference. We need to utilize all the data and
22 information that we have and give it to people so that
23 they can make good decisions, and give it to them in a
24 way that makes sense to them. And then we need to keep
25 improving the process. It's not a one and done. We go

1 back and work with people, or we help them work in their
2 own community and understand what they're doing so that
3 they can continuously improve.

4 Thank you.

5 MS. PIXLEY: I'm glad Lisa came first, because
6 she already made half of my points.

7 I'm Joy Pixley. I'm a sociologist. I work in a
8 multidisciplinary center called the California Plug Load
9 Research Center, which is part of the University of
10 California, Irvine. And our mission is to improve
11 energy efficiency in plug load devices, both in terms of
12 their design and in terms of their use. We hadn't
13 thought of this as being a low-income issue, but now
14 that you mention it, it really is. So I very much
15 appreciate coming here and having a chance to talk to
16 you about it.

17 One of the main things that we -- we do a lot of
18 standards testing, design testing, research, but I want
19 to talk today about user behavior and the kinds of
20 research on user behavior that I think is going to be
21 most important for this kind of topic.

22 On the one hand, I think we need a lot more
23 research on what devices people actually have in their
24 homes. I mean, the plug load devices aren't like HVAC.
25 They're not something that everybody has. People have

1 very different combinations of different devices, and
2 they use them in very different ways. So it's probably
3 not very effective to say everybody has one TV and they
4 use it for five hours a day.

5 So the first thing is, what devices do people
6 have and how are they actually using them, so that we
7 can target programs more effectively for them? But in
8 particular, I think we need to focus more on how are
9 they using or, more likely, misusing the energy-saving
10 features that we are sending out with these devices? So
11 we're being very careful to regulate those. We're being
12 very careful to create these beautifully energy-
13 efficient devices. And then when they take them home or
14 they take them to their offices, what do they do? Do
15 they plug them in wrong? Do they have the sleep setting
16 set until something goes wrong and then they disable
17 them? So it's very likely, we thought, that they're not
18 being effectively used.

19 So with that said, I want to try to get three
20 points across in my five minutes that I have left. One
21 of them is a really good example of what I just talked
22 about.

23 So I was told, we were doing some work on
24 computers, and I was told that we didn't have to worry
25 about computer sleep settings because computers are

1 shipped with the sleep settings enabled. Voila. Now
2 we're done. Now there's some research out there that
3 shows that when you go into office buildings late at
4 night, an awful lot of them are still on, so something
5 happened there. But when you ask people, they say that
6 they have sleep settings enabled. Okay. There's a
7 little problem here.

8 So with, thank you very much, Energy Commission
9 money, we went out and we did a survey and we asked
10 2,000 people about all of their desktop computers and
11 laptop computers. And sure enough, the vast majority of
12 them said, yeah, I'm pretty sure that my sleep settings
13 are on. We did a follow-up study with a small subsample
14 of office desktops of those, and we gave them a chance
15 to change their mind at the last minute, and they
16 didn't. And we went and they looked at their computers,
17 and let me see if I can get the numbers right. So 13
18 percent of them said that their sleep settings were
19 disabled, and they were correct; 20 percent of them said
20 that their sleep settings were enabled, and they were
21 correct; and 67 percent of the people thought that their
22 computer was going to sleep and it wasn't. So this is a
23 huge number of people who think that they're doing the
24 right thing, and they just don't understand what's going
25 on with the computer, and literally had people say, but

1 the monitor goes off.

2 So this was a wake-up call to us. So what's
3 going on? What are they confused about?

4 And so we are also on the same EPIC Program with
5 the solution. And the solution we hope is the solution
6 is to help to inform and give feedback to them.

7 So my second point is that we hope that users
8 will be more effective in their energy-saving behaviors
9 if we give them feedback, more education, more ability
10 to know what they're doing.

11 So with our grant, what we've done is we've
12 developed a new software app that goes on the desktop.
13 And not only do you have a very easy way of actually
14 seeing what you're sleep settings are. Instead of it
15 saying it's balanced or something, you see what it is.
16 But you get these wonderful graphs and charts, and it
17 has little smiley faces if you're doing well, and frowny
18 faces if you're doing bad. And let me tell you, they
19 hate the frowny faces. They really are motivated to not
20 have their things show frowny faces. So the idea is
21 that you will learn more about what your computer is
22 actually doing when you walk away, and that this will
23 help you to guide your own behavior. It's working with
24 me, I'll tell you.

25 So another version that we have of that, and

1 this is very similar to what Lisa just talked about, is
2 we have a device called the Energy Channel. And the
3 idea is it's very similar to other kinds of in-home
4 devices that show you what your energy use is on a real-
5 time basis. But instead of it being a device that might
6 end up in the kitchen drawer pretty quickly, it's
7 literally a channel on your television that you can
8 click over to, and it's huge.

9 And it gives you, again, a lot of graphical
10 information. It taps into other sources of information,
11 the weather channel, SCE's Twitter feed. So it gives
12 you tips and tricks. And this one doesn't have smiley
13 faces, but it has a tree. And the tree gets all very
14 withered and upset if things are going bad. So again,
15 we have ways it gives you very specific information, but
16 again, very graphical, sort of emotional responses.

17 So that's the second thing, data-driven
18 information, empowering people by giving them feedback
19 on their actual energy use.

20 And the third thing riffs off of what we're
21 talking about here, is that low-income households, in
22 particular, are going to have a hard time investing in
23 the latest, greatest energy-efficient device. They're
24 going to hold on to the old devices that they have. And
25 when they do buy new devices, they're going to not get

1 the smart thing, they're going to get -- you know, the
2 smart device, they're going to get the cheapest thing
3 that they have.

4 And so we've been looking into ways of adding on
5 in ways that will make what they're doing more efficient
6 without having to invest, not that that's a bad thing.
7 Please do go invest of those.

8 So for one thing, the Power Management User
9 Interface that I just told you about, that's free
10 software. So we figured it's going through the EPIC
11 Program. The ratepayers paid us to do it. We're going
12 to use free software and give it right back to them, so
13 that's a no-cost thing right there.

14 The Energy Channel itself, if you already have a
15 smart TV, you can just download it for free. If you
16 don't, you can get a Dongle to stick in there that costs
17 about ten bucks. So you can take a regular, old, not
18 very good TV and stick in there, and it's going to give
19 you a lot of information.

20 We're also working on -- we have a prototype for
21 something we call Projector Buddy. We have a lot of
22 things called something Buddy. We have a Coffee Buddy
23 and a Water Buddy. But the idea is that you have this
24 little device that includes those machine learning
25 algorithms. It monitors what the activities are of --

1 how the device is being used. It shuts it down if it's
2 not being used. So basically, it turns your stupid
3 device into a smart device, again, just by adding this
4 new little \$10.00 thing. So somebody who can't afford
5 to buy anew \$300 thing might be able to afford to buy a
6 \$10.00 thing to stick onto their old one.

7 So those are some ideas that we had about what
8 we're doing that might be more applicable to low-income
9 energy efficiency.

10 Thanks.

11 MR. RIDGLEY: Marti, are you with us?

12 MS. FRANK: I am. Can you hear me?

13 MR. RIDGLEY: We can, yes.

14 MS. FRANK: Fabulous. Are you ready for me to
15 begin?

16 MR. RIDGLEY: Yes.

17 MS. FRANK: Okay. Sorry. It's hard to not be
18 in the room. Thank you, guys, for allowing me to
19 participate remotely.

20 I come to this work with an evaluation
21 background. I spent nearly six years evaluating plug
22 load programs in California and the Northwest. And I
23 led two large market characterization studies of plug
24 load products for the California IOUs. And what this
25 really means is that I spent a lot of time in the data,

1 program data, market data, retail sales data. And after
2 my six-year data deep dive, I developed some hypotheses
3 about two topics of relevance to this group, the
4 barriers to efficiency that low-income households face,
5 and what we can do about it. And I'm going to focus my
6 remarks on those two things.

7 So my current work is in appliances. And in
8 these products the key barrier is, from my perspective,
9 pretty simple. In fact, sometimes I kind of wish it
10 were a little bit more complicated. The barrier to
11 efficiency for lower-income households is cost. And I
12 will say, unlike our previous two panelists, I am
13 talking about when people are buying new products. And
14 it's not just any cost, it's first cost, the amount of
15 money a household has to pay in order to obtain an
16 efficient product.

17 It's been said already a couple of times on this
18 panel, you know, the lower your income the less you can
19 afford to spend. And low-income households, the people
20 who were interested in here, are buying the cheapest
21 products in the store. So that's a \$450 refrigerator.
22 It's a \$450 clothes washer. And that \$450 refrigerator
23 or clothes washer is not ENERGY STAR, and it's nowhere
24 near most efficient. You know, the cheapest products
25 are cheap for a reason. They've got only minimal

1 features. They're designed to perform their core
2 function and pretty much nothing else. And stepping up
3 to an ENERGY STAR product will cost the customer another
4 \$50.00 to \$150. And to many people that may not seem
5 like a lot of money. But to the household paying \$450
6 for a washer, that's at least 10 percent, maybe even 30
7 percent more. And as the retail sales data show, people
8 will not pay it.

9 So when we look at major retail sales of clothes
10 washers, we find that among washer priced under \$500,
11 only five percent of sales are ENERGY STAR. But when we
12 look at washers priced over \$500, 90 percent of sales
13 are ENERGY STAR.

14 And I only have time to make a couple of points,
15 so here's the first one. The data show that the
16 majority of today's non ENERGY STAR sales are occurring
17 at the lowest price points. So focusing on shifting
18 these customers into an ENERGY STAR product, I am
19 arguing, needs to be an essential piece of the work that
20 we do to hit our savings and emissions reduction goals.
21 And I like to think about this as lifting the market up
22 from the bottom.

23 Much of the work we do on voluntary programs
24 focuses on the top of the market, spurring innovation,
25 speeding adoption of new technologies, even downstream

1 incentives, when we offer them on super-efficient
2 products, are top-of-market activities, and these are
3 great. We should absolutely continue doing them, okay?
4 But we should also use our program activities to lift up
5 the bottom of the market. Bottom-of-market activities
6 benefit lower-income households and renters. And this,
7 in my mind, is reason enough to engage in them.

8 They can also, however, when carried out of
9 scale, have a market transformation impact on products
10 shipped by China. Now this is my hypothesis, of course.
11 But I'm arguing that a large increase in demand for
12 entry-level ENERGY STAR products will over time result
13 in lower prices for consumers and pave the way for more
14 stringent minimum performance standards. And, of
15 course, there's a lot more to say about that.

16 But in the interest of time I want to move on to
17 my second topic, which is what should we do to lift up
18 the bottom of the market? So I have one idea about how
19 to do this. And certainly there will be others and
20 there are others out there, but my idea takes the form
21 of a program design called the shift model. Platte
22 River Power Authority has the first pilot. And it's
23 been in the field at one store, a major retail store in
24 Colorado, now for just over 12 weeks. So I'm able to
25 tell you a bit about what we've learned about this

1 particular approach to lifting up the bottom of the
2 market.

3 So the shift approach is based on the idea that
4 first cost is the most important barrier to increasing
5 adoption of ENERGY STAR appliances at low price points.
6 And the key program activity is a midstream incentive
7 which the retailer passes onto the customer in the form
8 of a markdown. And this markdown makes the price of an
9 entry-level ENERGY STAR washer and refrigerator the same
10 as the price of a baseline or inefficient model. And we
11 did this midstream incentive markdown for just two
12 models, but we picked them carefully. So these models
13 that we're incenting are nearly identical to the exact
14 selling washer and refrigerator in the store, both of
15 which sell for about \$450 and are not efficient.

16 So after 12 weeks we found that 94 percent of
17 customers chose to buy the ENERGY STAR washer, rather
18 than the baseline or inefficient model. The incented
19 model is now the bestselling washer in the store. And
20 the baseline model, which used to be one of the
21 bestselling washers, is now at the bottom of the list.

22 Among washers under \$500, ENERGY STAR sales are
23 up from 5 percent to 49 percent. And because so many
24 sales, product sales, occur at these low price points,
25 you can see the influence of this incentive, even though

1 it's on a single model up at the category level, so
2 among all washers in the store. So prior to the pilot,
3 ENERGY STAR washers were 66 percent of sales, and now
4 they are 77 percent.

5 So here's my second key point, these are not
6 hard savings to get. In fact, the retailer does a lot
7 of the work.

8 So in closing, I'd like to say that I, like all
9 of you, I'm sure, I hear all the time that we've already
10 reached the low-hanging fruit in energy efficiency, and
11 that appliances are done. So I am here to argue to you
12 to the contrary. In fact, I think that we have yet to
13 grab the low-hanging fruit in the appliance market, and
14 that we can do it by focusing our work on lifting up the
15 bottom of the market.

16 Thank you.

17 MR. RIDGLEY: Thank you all. I think that
18 concludes the prepared comments from the panel.

19 We'd like to turn it over to you, Mr. Chair, for
20 questions from the dais.

21 CHAIR WEISENMILLER: Yeah. I'd like to start
22 off with a simple one.

23 One of the things which, I guess, is the new
24 rage in energy efficiency is digitalization, the notion
25 that you connect everything in your house to the

1 internet. And, you know, people talk about,
2 potentially, major savings. Obviously, I've sort of
3 asked the question to them about, well, what about
4 standby power, you know, if you go through this? And
5 they just sort of looked at me astounded, like what are
6 you talking about?

7 So how do we balance that sort of smart, digital
8 -- and, again, this is obviously not something where I
9 expect low-income houses to be dealing with it, but it
10 does seem to be part of this rage on the internet or
11 whatever. Any reactions or commentary on at least that
12 general theme? I mean, like (indiscernible) people, I
13 think, have a paper coming out shortly which is saying
14 25 percent savings of energy efficiency if you
15 digitalize everything, for example, I mean.

16 MS. ARQUIT NIEDERBERGER: Just one comment, and
17 that is that under that AB 793 Energy Management
18 Technology Law, there is an emphasize, actually, on low
19 income. And so these marketplaces now, they will
20 include energy efficiency technologies from air
21 conditioners to washers.

22 They'll also include auto DR-enabled end-use
23 technologies, like electric vehicles and storage water
24 heaters, but they'll also include energy management
25 technologies, like these kinds of apps, and also

1 hardware devices. And part of that decision is that
2 utilities have now a requirement to help their own
3 customers that are having trouble paying their bills
4 take advantage of all these opportunities, and I think
5 we're going in that direction. And I can't answer your
6 question, like what that will do for overall
7 consumption. But clearly, if we work together with
8 manufacturers, then we can, you know, reduce the standby
9 load as we're ramping up the savings and demand part of
10 it, as well, I'm hoping.

11 MS. PIXLEY: Yeah. We've actually been having
12 very much the same discussion at Cal Plug, that IOT,
13 IOT, IOT. And yet, you do have to, at some point,
14 acknowledge that just because it's cool it doesn't mean
15 it's going to save you energy.

16 And so one of the little sub-projects that we
17 did, one that I didn't do, so I'm not going to be able
18 to cite you specific numbers, but looked at not a
19 digitalized thing, but smart bulbs. And so the problem
20 is the same as what you just said, that there's
21 something that's on all the time to monitor whether or
22 not it should be turned off or turned back on. And you
23 have to test it to see, is the amount of extra energy
24 that it takes to make it energy efficient actually more
25 than the energy that it's saving by being energy

1 efficient? And in some of these bulbs, it was a lot
2 more. So you were actually spending more money to have
3 your bulbs go off automatically.

4 So you do have to test these things ahead of
5 time. Just don't assume, again. But we haven't been
6 able to test it in the whole IOT situation because IOT
7 in the whole household requires all of your appliances
8 to all talk to each other, and we haven't been able to
9 achieve that yet, so --

10 MS. SCHMIDT: I'm a curmudgeon in that I don't
11 think they have much value. You know, at some point it
12 just becomes so complicated, what's the point?
13 Certainly thermostats make a lot of sense, maybe hot
14 water heaters because they can be used in demand
15 response if you have an electric hot water heater, but -
16 -

17 CHAIR WEISENMILLER: Marti, anything from you,
18 since you're on the line, on this issue?

19 MS. FRANK: Hi. Yeah. Thanks for queuing me.

20 I guess, you know, my comment would be that, you
21 know, from my work on new products, and specifically low
22 priced new products, I can tell you that a feature like
23 internet connectivity, at least on the appliance side,
24 is certainly not, at this point, being designed into the
25 lowest cost products and likely won't be for some time,

1 until it basically has either one of two things, no
2 additional or very small margin additional cost, or it's
3 so requisite that even people buying the cheapest
4 products will demand it.

5 And so I think that puts up on barrier in the
6 way of the, you know, the internet of things being
7 something that is beneficial to lower-income households.

8 And the second barrier, I think, is something
9 that our other panelists mentioned, which is that, you
10 know, when your resources are diminished, you spend as
11 little as possible, and so you hang on to things for
12 longer. And so if we make the assumption that lower-
13 income households tend to have older appliances or have
14 a longer replacement cycle, this is going to be another
15 barrier to getting connected devices into their homes in
16 such a way that it will help reduce energy.

17 So I guess I'm going to second, I think it was
18 Joy (indiscernible) for benefitting lower-income
19 households specifically in the near future.

20 CHAIR WEISENMILLER: Okay. Thank you. Thanks.
21 Andrew?

22 COMMISSIONER MCALLISTER: Yeah. So thanks,
23 everybody, for all of this. And, you know, lots we
24 could talk about, obviously, but I'm going to sort of
25 stick to just a couple of points.

1 I mean, Marti, to your point about, you know,
2 the bottom end of the market, I mean, at some level I
3 kind of want to think, well, we do that at the Energy
4 Commission, it's called Minimum Efficiency Standards,
5 and we just knock off everything that's below a certain
6 threshold. And, you know, I think in California, we
7 wish we could do more of that and not have the federal
8 preemption problem.

9 So, you know, in my book, one of the big things
10 we might think about is how we can, you know, work on
11 that preemption issue in a very straightforward way. I
12 mean, I know the administration in D.C. is most likely
13 not amenable to a waiver on preemption of -- you know,
14 for refrigerator standards. But I think we need a plan
15 to do that because we need those savings, and there are
16 plenty of savings out there, I mean, you know, still on
17 that bottom end of the market. And I think we're seeing
18 that once we create a minimum standard the costs kinds
19 of, to a large extent, sorts itself out. Once you have
20 a standard, it just becomes standard and they produce
21 what they have to produce. And so it's not a matter of
22 differentiating a market and upselling to -- you know,
23 looking for those different strata of the marketplace.

24 So, you know, hopefully collectively we can
25 think about strategies there, even though I think that's

1 probably, you know, an Energy Commission play, you know,
2 at the end of the day.

3 So I want to endorse Joy's point about doing
4 more, like finding out what's in people's houses. Back
5 in the day when I was grad student, did surveys in homes
6 in the East Bay all over the place. You know, me and a
7 research assistant went around and we go in people's
8 homes, and we got -- we collected a whole ton of data
9 and
10 did -- you know, we got published and all that. And it
11 varies incredibly, I mean, people with almost nothing in
12 there house to people with something in every plug and
13 more, right, power tools, the whole deal.

14 And one of the conclusions was that back then,
15 everybody had a cordless phone with an NiCad battery in
16 it. And across the state, those cordless phones were
17 taking up, you know, a 500 megawatt gas-fired power
18 plant, that's what -- you know, if you do the math.
19 And, you know, we even didn't load shapes, so we knew
20 when they were being charged, more or less, you know,
21 based on surveys which, you know, was probably good
22 enough for that. And so actually could even tell what
23 the demand implications of some of those devices
24 actually were.

25 That's the kind of research we need. I mean,

1 this is the ultimate distributed energy. You know, this
2 isn't just about one meter and behind that meter, this
3 is about every little bitty device behind that meter and
4 adding up to something that's actually humungous and
5 growing. And so I think we need to sort of think about
6 it in that way, and that doesn't necessarily mean
7 connect everything to the internet. But the things that
8 are connected, we ought to figure out how we can
9 manipulate them in a way that, you know, makes sense for
10 users, but also for the grid.

11 So I guess, you know, I'm really -- since you
12 all are thinking about this, and Marti, I mean,
13 including you here, you all are thinking about this
14 every day. I guess I just -- I feel like this is an
15 area where, you know, we've been thinking about in the
16 energy -- in the 758 Action Plan. There are some
17 innovative programs out there. I'm really optimistic
18 about these marketplaces, and just as a foundational
19 tool that we can build on going forward. I mean, the
20 implications of what you all are doing, those -- that
21 foundation and the data that flows from it can really, I
22 think, enable a lot of stuff that we don't even know
23 yet. And so, you know, you've thought about that more
24 than I have.

25 But I just want to keep this conversation going

1 and figure out -- you know, from where we sit at the
2 Energy Commission, we're working hard on data. But a
3 lot of that is getting ourselves the properly
4 desegregated data we need forecasting. You know, Mike
5 is working along in the, you know, IRP context and the
6 doubling context, and just figuring out how we're going
7 to monitor how we're doing, you know, overall and how
8 we're getting to doubling, whether we're getting to a
9 doubling, trying to disaggregate those impacts.

10 But the next -- you know, alongside that and not
11 too far after doing that at the policy level at the
12 agency is getting -- figuring out specifically what data
13 we can turn around and push out into the world, at what
14 level of aggregation, to get it into the hands of the
15 people who need it, whether that's researchers, whether
16 that's market participant, whether that's users,
17 building owners, all that stuff. We're doing some of
18 that with AB 802 and benchmarking.

19 But I would really welcome your kind of
20 understanding of the use cases for that kind of data and
21 what the marketplace could really use and really value
22 in that as we go forward. You know, I think we'll -- as
23 we learn more, we're going to know more and we're going
24 to be able to think in a more quality way about that
25 issue.

1 So it's a general plea for sort of your ongoing
2 participation in this. And also just thinking about it
3 from that perspective, if you had a magic wand to get,
4 you know, X part of the ecosystem, you know, Y kind of
5 data, what does that look like? And how -- you know,
6 there are all sorts of barriers, you know, there's
7 privacy, there's lots of concerns that people bring up,
8 and so working through those issues in the policy
9 context, you know, even a regulatory context. You know,
10 I think we're going to need good solid help to navigate.

11 So anyway, those use cases, I think, are
12 something that are going to be really critical. And the
13 PUC has done quite a bit of that already, and we can
14 build on that. So just a general -- not a question, but
15 just a general ask going forward.

16 MS. PIXLEY: Actually, can I respond to that
17 now?

18 MR. RIDGLEY: Yeah.

19 MS. PIXLEY: Okay. Recently we had a reason to
20 go and look to see what kind of data was out there about
21 what kinds of devices people had in their homes and how
22 often they were using them. We were trying to figure
23 out what the range of behaviors were. Like I mentioned
24 earlier, if you're basing all of your energy efficiency
25 estimates on the idea that everybody is using their one

1 TV for the average amount of time, you're going to be
2 really far off --

3 COMMISSIONER MCALLISTER: Yeah. Yeah.

4 MS. PIXLEY: -- if this person is actually using
5 two TVs at the 90th percentile, and this person is using
6 their one TV at the 10th percentile. So we were trying
7 to figure out, well, let's just look at the data that we
8 assume must be out there. And you can tell where this
9 is going. The data was really not out there, as much as
10 we were hoping it was going to.

11 So we had, for instance, the RASS, Residential
12 Appliance Saturation Survey, which was funded by the
13 Energy Commission. We had the California Lighting
14 Appliance Saturation Survey, the CLASS, and the national
15 one, the Residential Energy Consumption Survey.

16 And of all of those, we were hoping that RASS
17 was going to be the most useful, and it ended up
18 actually being the least useful, I'm sorry to say. And
19 partly that was because most of -- it's not the volume
20 of information, but the way that the information was
21 asked was asked in such a way of how many of all of your
22 TVs do you have, how much time do you spend on all of
23 your TVs? Whereas, some of the other surveys asked,
24 okay, what's your primary TV? How large is that TV?
25 How much were you using that per day? What's the

1 secondary TV? How large is that TV? How much were you
2 using it per day?

3 So we were able to actually, with the other
4 datasets, drill down and figure out per person how much
5 time were people spending on their TVs, whereas the RASS
6 data was lumped in such a way that we couldn't use it on
7 a per-device basis.

8 And also, I know I'm a researcher, so I'm
9 obligated to say we need more research, but we need more
10 research and we need it more frequently. So here we
11 are, trying to send a report to Southern California
12 Edison in 2016-2017, and they're saying, really, the
13 most recent data you have is 2009? People aren't even
14 using those devices anymore. So anything that we could
15 do to get the data, anytime you're looking at
16 longitudinal data, you need to have it be a little bit
17 more frequently than that, so that we can changes over
18 time. When you get to the point where the surveys are
19 so far apart from each other that you can't even use the
20 same words to describe the devices, because that's not
21 what people use anymore, then you don't have
22 comparability over things, so we can't talk about
23 trends.

24 So that's my ask.

25 COMMISSIONER MCALLISTER: Nice ask.

1 MS. SCHMIDT: Okay. I'm going to offer rebuttal
2 to that one.

3 MS. PIXLEY: Okay. Are you going to give me
4 data?

5 MS. SCHMIDT: Yeah.

6 MS. PIXLEY: Great.

7 MS. SCHMIDT: I understand, or maybe I don't
8 understand, but I'll pretend I understand the need for
9 detailed data across a large dataset, you know, trying
10 to determine what people have. But what we found is
11 there's no such thing. If you're dealing with an
12 individual and you're trying to do an energy saving
13 program, there's no such thing as an average home. And
14 so this concept of an average may be useful in some
15 categories, but it's not useful in the category of
16 delivering energy efficiency programs to people. So
17 that's -- I think there's a tension here between trying
18 to drill down and create a vision of the average home or
19 the average apartment or the average four-bedroom. It
20 only has some usefulness, not a lot of usefulness.

21 And then you asked for the data that we would
22 really love to see. I would really love it if the CEC
23 or the CPUC would put out their target of dollar per
24 kilowatt hour, what cost you want that to be for an
25 energy efficiency program, so how much should I deliver

1 a kilowatt hour of savings for? Five cents? Twenty-
2 five cents? What's reasonable? And then --

3 COMMISSIONER MCALLISTER: Uh-huh.

4 MS. SCHMIDT: -- just let us go wild trying to
5 hit it, and then three years later drop it by five
6 percent. I mean, if you really wanted to drive energy
7 efficiency programs, tell us the target to hit.

8 COMMISSIONER MCALLISTER: Yeah. I guess that's
9 actually an interesting conversation. But I think
10 there's kind of an implicit answer to that already,
11 which is it has to be, you know, cost effective under
12 these metrics. And you could actually back out what
13 that means in terms of dollars per kilowatt hours.

14 CHAIR WEISENMILLER: Yeah. But let's make --

15 COMMISSIONER MCALLISTER: But, yeah.

16 CHAIR WEISENMILLER: Let's get realistic or more
17 complicated now, in a sense.

18 You know, one of the things 350 did is really
19 focus all of us on greenhouse gas emissions, you know,
20 as opposed to, you know, the traditional programs. And
21 so when you asked about benchmarks, then you get to the
22 question of, okay, well, what are the greenhouse gas --
23 you know, what's the cost proof for the greenhouse gas
24 emissions? And, you know, God bless, we're talking
25 about some things. I mean, renewable gas that's

1 supposed to be like \$1,300. You know, I mean, that's --
2 can you do better than that, you know, I mean for
3 example, you know? And I think, you know, some of the
4 scenarios that the PUC is looking at is like 350. I
5 know the social cost to carbon numbers, I think Obama
6 had it at like 50. Obviously, cap and trade now is, you
7 know, 12, 15, you know?

8 But again, it's -- can you do better? Yeah.
9 Again, if you can start thinking about greenhouse gas
10 emissions and the sorts of things we're looking at
11 there, some of which are just incredibly expensive?

12 MS. SCHMIDT: I think you could do a much better
13 job, actually, because then you would take into
14 consideration fuel switching.

15 CHAIR WEISENMILLER: Yeah.

16 MS. SCHMIDT: And as we, the CCAs, get bigger
17 and as we have more and more solar, make everything
18 electric. If you're trying to reduce greenhouse gases,
19 it would be a different equation and perhaps the more
20 accurate one.

21 CHAIR WEISENMILLER: Yeah. I mean, that's -- I
22 mean, that's -- yeah. Yeah.

23 Certainly, we are putting in place guidelines
24 for the POUs in terms of their IRPs. The PUC is much
25 more trying to do a here's some scenario cases on how

1 you should do IRPs, so it's a more proactive approach.
2 And, you know, frankly, the first couple times we do it,
3 it's probably going to be somewhat cringe worthy. But,
4 you know, we're sort of moving in the right direction
5 there.

6 But again, that 350 really said, let's move away
7 from the very silos to very much a GHG focus. And
8 that's a totally different way of thinking about all
9 these programs. And so, as I said, I don't think we've
10 gotten there in terms of how to do the thinking, but
11 we're at least trying to start rethinking things.

12 MS. SCHMIDT: Well, i think 802 and some of the
13 HOPs (phonetic) programs are moving us towards measuring
14 the energy efficiency programs in terms of dollars per
15 unit saved. And as you go direction, a few million
16 dollars per greenhouse gas ton saved, you can be very
17 creative about how you deliver it.

18 COMMISSIONER MCALLISTER: So it seems like what
19 you're really saying, and I was going to kind ask
20 something along the lines of this, you're talking about
21 in a performance-based approach; right? So I think that
22 was implicit in what you said.

23 MS. SCHMIDT: Yes.

24 COMMISSIONER MCALLISTER: So I think that is
25 true, like if we can utilize -- we cannot have every job

1 be a custom job, but have every measurement be, you
2 know, a measurement to that specific customer. And then
3 we can start having a long -- you know, the law of large
4 numbers sort of works in our favor, and then we can make
5 better policy without, you know, doing a RASS every six
6 months; right?

7 MS. SCHMIDT: Well, from an implementation point
8 of view, you have one number you're trying to hit, so
9 everyone becomes creative in trying to hit that number.
10 So your measurement, dollar per greenhouse gas saved --

11 COMMISSIONER MCALLISTER: Yeah.

12 MS. SCHMIDT: -- is universal. And all the
13 programs move around underneath it, trying to get to the
14 best solution.

15 COMMISSIONER MCALLISTER: Yeah. I mean, I think
16 there's something there. We need -- we can keep talking
17 about it.

18 And I think Anne wanted to say something or --

19 MS. ARQUIT NIEDERBERGER: Well, two things. I
20 wanted to point out -- well, three things. So you know
21 --

22 COMMISSIONER MCALLISTER: Quickly.

23 MS. ARQUIT NIEDERBERGER: -- as long as you have
24 an RPS, right, that sort of creates, I guess you could
25 say, you know, from the energy efficiency perspective,

1 sort of an unfair starting point if you're saying that
2 you're supposed to deploy all cost effective energy
3 efficiency but then you have an RPS. And so
4 it's -- the RPS is at any price; right? So it kind of
5 creates not a level playing field, so I just wanted to
6 make that comment.

7 The other thing I wanted to say is that we did
8 some calculations for New York, but we didn't have a
9 chance to do it for California but I want to. So every
10 dollar that you would invest in low-income energy
11 efficiency, you also have to realize that you're then
12 reducing the amount of money that you would have to
13 spend under CARE Energy Bill subsidies. And for New
14 York, it was like a one-to-four ratio. So every dollar
15 invested in low-income energy efficiency would save you,
16 over the lifetime of the products, \$4.00 in annual
17 Energy Bill subsidies that you otherwise would have had
18 to pay.

19 So I think we need from -- you know, taking a
20 comprehensive approach, also in the low-income space,
21 start thinking about these things which are totally
22 siloed right now. And that was another recommendation
23 in your SB 350 Low-Income Barrier Study, that CARE
24 customers should be enabled to redirect their subsidy
25 money, not only to community solar, but also to end-use

1 energy efficiency, and I don't think we've looked into
2 that enough yet. And we definitely would love to do
3 some calculations to make that point.

4 And then I just wanted to agree with what Lisa
5 said about customers are not average. And so if you
6 look at average prices in the marketplace for different
7 levels of efficiency, it's really -- that's not the key
8 point. And with these marketplaces now, we're able to
9 not only let people look at the best purchase price that
10 meets their needs, like how many loads of laundry do
11 they do a week? We also let them look at the Energy
12 Bill savings implications for their tariff and their
13 actual usage, but also they can consider the total cost
14 of ownership.

15 And I just wanted to give you just an example.
16 I can put this into our paper. But I just looked at
17 washers, clothes washers between four and five cubic
18 feet. And what I found was that the total cost of
19 ownership was 36 percent, 36 percent lower for the most
20 efficient washer on the market, like there days ago when
21 I did the analysis, compared to the cheapest model on
22 the market. So it's -- and that's a huge difference
23 that, actually, would more than cover the cost of the
24 new appliance.

25 And so there's tons of room there, you know,

1 with financing, or just with transparency, to let people
2 make better choices.

3 COMMISSIONER MCALLISTER: So how do we get
4 people to use these tools?

5 MS. ARQUIT NIEDERBERGER: Well, targeted
6 marketing and outreach. I mean, we didn't have any time
7 to talk about MENO (phonetic) really. That's one really
8 obvious thing. We're so much better now because we know
9 how people behave. We've been doing these behavioral
10 experiments.

11 Also, the woman who talked in an earlier panel,
12 Catalina, we can do much more targeted messaging. We
13 know now when people are in the market, like for a
14 refrigerator. We know what capacity they're actually
15 searching for on the internet, so we can send them, and
16 we do this right now, targeted adds about the most
17 efficient products with incentives and such. So we're
18 way farther along than we were two years ago.

19 And the other thing that we're working on, we
20 applied for a CalSEED Grant. We don't know if we're
21 going to get it yet. But we are very close to being
22 able to integrate online point-of-sale incentives, so
23 that people can purchase products online with any low-
24 income incentives built in at the checkout cart on the
25 retail website. So this will totally address that first

1 cost barrier, together then with knowledge of which
2 products are efficient and can save you money over time,
3 we think it's a winning conversation -- combination,
4 based on the experiments that we've done so far.

5 MS. PIXLEY: Can I jump in and talk about this
6 average thing for a second? Because I would also like
7 to say that there is no such thing as the average
8 household. I think my point has been misunderstood.

9 The whole reason why I wanted more data was so
10 that I could -- I'd get a better sense of what the real
11 range of behavior was. So in one of the datasets that
12 we found, for instance, the median use of televisions
13 was 5 hours a day, but the 10th percentile was 2 hours a
14 day, and the 90th percentile was 13 hours a day. So if
15 you're telling somebody that their energy efficiency is
16 X based on 5 hours a day, how different is that going to
17 be if you're the 90th percentile versus if you're in the
18 10th percentile? So --

19 MS. ARQUIT NIEDERBERGER: Well, that's people
20 don't respond.

21 MS. PIXLEY: Yeah.

22 MS. ARQUIT NIEDERBERGER: I mean, there's a
23 whole behavioral science literature.

24 COMMISSIONER MCALLISTER: Yeah. Exactly.

25 MS. ARQUIT NIEDERBERGER: People don't respond

1 when you tell them average savings amounts or something,
2 because they know it doesn't really apply to their
3 situation. So unless it's personalized and they believe
4 it's relevant for them, they will ignore it.

5 And another thing we found is that whereas the
6 Energy Bill savings information doesn't really resonate
7 much with a lot of people, it's more the energy
8 efficiency score that nudges their behavior. When you
9 do just look at the low-income segment, they're much
10 more sensitive to that Energy Bill savings information
11 because it's more salient for them because --

12 COMMISSIONER MCALLISTER: Yeah.

13 MS. ARQUIT NIEDERBERGER: -- they have the CARE.

14 COMMISSIONER MCALLISTER: Yeah. So I'm going to
15 cut this off now because we're already over time. But I
16 do -- it almost gives me -- so this is a much different
17 conversation than we had just a couple of years ago when
18 we were working on the 758 Action Plan and there just
19 wasn't this level of subtlety and the understanding.
20 And so I totally agree with you, we've come a long way.

21 I want to think about how we can maybe dig in
22 just a little bit more and get some policy conclusions
23 from this so that we can, maybe in the next update of
24 the 758 Action Plan or, you know, some joint work that
25 we're going to do with the PUC, how to say, okay, here's

1 where the state really needs to invest to get to the
2 bottom of this and massify use of these tools, and
3 really get better choices out there in the marketplace
4 to happen because, I mean, it's happening, but we need
5 it to happen faster.

6 So anyway, this has been a great discussion. So
7 if anybody else wants to ask questions, I'll collapse.

8 CHAIR WEISENMILLER: Go ahead.

9 COMMISSIONER GUZMAN ACEVES: I just concur with
10 your comments, as well as the Chairman's comments,
11 because I do think we need to shift not only to a more
12 simplistic accounting, but to greenhouse gas accounting.

13 CHAIR WEISENMILLER: Yeah.

14 COMMISSIONER GUZMAN ACEVES: And that will
15 enable that fuel switching. So I do look forward to
16 that and seeing what kind of creative ways we can get
17 around the federal administration to increase our
18 baseline on -- baseline in terms of what all of our
19 residents are able to get.

20 And I'm personally very motivated by this
21 because I was -- I bought a new refrigerator a couple of
22 years ago, and there was like, I
23 think -- we didn't talk about kind of false marketing
24 and enforcement here, but there was a yellow sticker
25 that turned out not to be the star, ENERGY STAR. So my

1 refrigerator that was like ten years older than my last
2 one was less efficient.

3 And, yeah, so I think there's definitely a lot
4 of room for better education. And I just think we
5 shouldn't offer some of the things as what we can do to
6 get around that.

7 CHAIR WEISENMILLER: Yeah. That's good. No.

8 I was just going to say, too, just following up,
9 obviously one of the things that Andrew and I are
10 struggling with is the policy dimension and the forecast
11 dimension, and certainly the implications of big data.
12 As you said, by nature, at some point you're saying
13 that, well, actually, we do it for building standards,
14 we do it for a lot of things, so this is sort of what
15 they expect the characteristics are, while, in face, you
16 know, as you said, these are not very homogenous
17 situations and everyone varies all over the place, so
18 basically how to take a more real estate perspective on
19 these for both policy and for, you know, forecasting and
20 for standards; right? There's a whole series of things
21 we -- you know, PUC programs. Obviously, your sort of
22 targeting this as, you know, again, typical or whatever,
23 and it's like six, ten people all over the place. How
24 do you really connect to them?

25 So I think, yeah, I would certainly encourage

1 Andrew to keep digging, you know, digging on this.

2 But, yeah, at this point we will transition to
3 public comment.

4 Actually, again, let's thank everyone for their
5 participation today.

6 But again, I think we want to transition to
7 public comment.

8 First, is there anyone in the room who wants to
9 give a public comment now?

10 So let's go to the phone lines, Heather.

11 (Music playing on WebEx.)

12 CHAIR WEISENMILLER: Wow. Hey.

13 MS. RAITT: So we're going to open up the phone
14 lines. So if folks on the lines could try to mute your
15 phones, please, if you're there, and we're going to open
16 up the lines, unless you want to make a comment, then,
17 obviously, don't mute your line.

18 CHAIR WEISENMILLER: And if -- yeah. And what
19 you can do is also you can email --

20 MS. RAITT: Right.

21 CHAIR WEISENMILLER: -- a question or a comment
22 to -- because we can't possible get through the Muzak
23 part.

24 MS. RAITT: All right.

25 CHAIR WEISENMILLER: So I think we're forced to.

1 Heather --

2 MS. RAITT: Forced to move on.

3 CHAIR WEISENMILLER: -- what --

4 MS. RAITT: I do have two questions that came
5 out from WebEx. We're not really equipped to do Q&A,
6 but I'm going to go ahead and read these questions.

7 The first one was,
8 "Since the official definition of DAC is the top 25
9 percent scoring communities, why is the goal that
10 Melicia stated to target 10 to 15 percent of the funds
11 to DACs? That seems like a continuation of underfunding
12 efforts to those communities. Thanks."

13 And that was a comment from Nehemiah Stone.

14 CHAIR WEISENMILLER: Okay. So a more editorial
15 comment, I think --

16 MS. RAITT: Right.

17 CHAIR WEISENMILLER: -- than a question.

18 MS. RAITT: Right. And the --

19 COMMISSIONER GUZMAN ACEVES: I just want to --

20 MS. RAITT: Oh, go ahead.

21 COMMISSIONER GUZMAN ACEVES: -- maybe correct it
22 a little bit, which is that was a pre-350 infrastructure
23 investment. So I think the new billion dollars, you
24 know, applications we're looking at will certainly be
25 higher than that.

1 MS. RAITT: Okay. The second one is a question
2 for Anne Arquit from the last panel. This is from --
3 I'm sorry, I'm going to mispronounce this -- Arinda Roy
4 (phonetic). The question is: "Why is ENERGY STAR not
5 relevant in California?"

6 MS. ARQUIT NIEDERBERGER: Did I actually say it
7 like that? No. Okay.

8 The point is that for some categories the ENERGY
9 STAR qualifications are very stringent, you know, and
10 represent a very small market share. But for a lot of
11 product categories, in particular a lot of categories,
12 like electronics, that low-income households might buy
13 new themselves more frequently, like televisions. The
14 market share of ENERGY STAR-qualified products in the
15 most recent dataset that's available was something like
16 90 percent. And so within that ENERGY STAR-qualified
17 group, you have a range in efficiency levels or
18 consumption levels of, you know, three or fourfold.

19 And so it's not granular enough and it's not
20 updated frequently enough to be a very good guide for
21 people when they're actually shopping for a single
22 product, trying to find the most efficient product that
23 meets their needs.

24 So I want to say, these things are very
25 complementary. So on the marketplaces the ENERGY STAR

1 label is featured, but the score provides more
2 granularity in a daily updated snapshot of relative
3 efficiency.

4 CHAIR WEISENMILLER: Anything else?

5 MS. RAITT: I think that's all the public
6 comments.

7 CHAIR WEISENMILLER: Okay. Then this meeting is
8 adjourned.

9 Well, actually, no. You go -- what other
10 comments?

11 MS. RAITT: I just want to --

12 CHAIR WEISENMILLER: When are written comments
13 due?

14 MS. RAITT: Yeah.

15 CHAIR WEISENMILLER: Let's get that on the
16 record --

17 MS. RAITT: Written comments are due August
18 15th.

19 CHAIR WEISENMILLER: -- again.

20 MS. RAITT: And that notice -- excuse me, the
21 notice has all the information for providing comments,
22 so --

23 CHAIR WEISENMILLER: If --

24 COMMISSIONER GUZMAN ACEVES: I just have one
25 announcement.

1 CHAIR WEISENMILLER: Okay. Sure.

2 COMMISSIONER GUZMAN ACEVES: And I think my
3 Adviser, Dave Gamson, left. But I was just going to
4 wish him a happy birthday, and for sticking out his
5 birthday here at the workshop.

6 CHAIR WEISENMILLER: However, he had better
7 ideas; right?

8 COMMISSIONER MCALLISTER: But was he?

9 CHAIR WEISENMILLER: Fox and goose. Fox and
10 goose; right? Okay. The video connection.

11 MS. RAITT: I think we --

12 CHAIR WEISENMILLER: Okay. So, yeah, I think
13 I'm fine.

14 Do you want to do a wrap up?

15 COMMISSIONER SCOTT: No.

16 COMMISSIONER MCALLISTER: No.

17 COMMISSIONER GUZMAN ACEVES: I'm okay.

18 MR. CAMACHO: No.

19 CHAIR WEISENMILLER: Okay. The meeting is
20 adjourned. Thanks.

21 (The workshop adjourned at 3:45 p.m.)

22

23

24

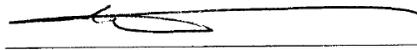
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