

BEFORE THE
CALIFORNIA CLEAN ENERGY JOBS ACT
CITIZENS OVERSIGHT BOARD

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

This meeting of the Citizens Oversight Board will include teleconference participation by one or more Board Members. Per Government Code section 11123(b) (2), the teleconference locations, in addition to the address above, are:

UNIVERSITY OF CALIFORNIA, LOS ANGELES
GEOLOGY CONFERENCE ROOM 4608
595 CHARLES E. YOUNG DRIVE
LOS ANGELES, CA 90095

LOS ANGELES CLEANTECH INCUBATOR
CONFERENCE ROOM 108
525 S. HEWITT STREET
LOS ANGELES, CA 90065

FRIDAY, FEBRUARY 23, 2018

1:00 P.M.

Reported by:
Gigi Lastra

APPEARANCES

BOARD MEMBERS PRESENT (*Via telephone and/or WebEx)

Kate Gordon, Chair

Mark Gold, Vice Chair (appointed Vice Chair in the meeting)

Heather Rosenberg, Board Member

Barbara Lloyd, Board Member

Randall Martinez, Board Member

Chelina Odbert, Board Member

David Dias, Board Member

COMMISSIONERS PRESENT

Andrew McAllister, California Energy Commission,
Commissioner

CEC STAFF PRESENT

Michael Murza, Law & Policy Advisor to Chair Weisenmiller

Jack Bastida

James Bartridge

Haile Bucaneg

ALSO PRESENT

James Holland, California Energy Commission

APPEARANCES (Cont.)

ALSO PRESENT (Cont.)

Carlos Montoya, California Community College Chancellor's
Office

Bill McNamara, California Conservation Corps

Sarah White, California, Workforce Development Board

PUBLIC COMMENT: (*Via telephone and/or WebEx)

I N D E X

THE BOARD WILL CONSIDER AND MAY TAKE ACTION ON THE FOLLOWING ITEMS:

- | | | |
|----|---|----|
| 1. | INTRODUCTION AND ROLL CALL OF BOARD MEMBERS TO DETERMINE QUORUM. (Chair Gordon) | 6 |
| 2. | APPROVAL OF MINUTES FROM JULY 13th, 2017 CITIZENS OVERSIGHT BOARD MEETING. (Chair Gordon) | 9 |
| 3. | DISCUSSION AND POSSIBLE VOTE ON THE CITIZENS OVERSIGHT BOARD VICE CHAIR POSITION. (Chair Gordon) | 12 |
| 4. | OVERVIEW AND DISCUSSION OF SENATE BILL 110 (2017) CHANGES TO THE CLEAN ENERGY JOBS ACT. (Jim Bartridge, Citizens Oversight Board) | 16 |
| 5. | PRESENTATION AND POSSIBLE VOTE ON ANNUAL REPORT FROM THE CALIFORNIA ENERGY COMMISSION. (Jim Holland, California Energy Commission) | 30 |
| 6. | PRESENTATION AND POSSIBLE VOTE ON ANNUAL REPORT FROM THE CALIFORNIA COMMUNITY COLLEGE CHANCELLOR'S OFFICE. (Carlos Montoya, California Community College Chancellor's Office) | 54 |
| 7. | PRESENTATION AND POSSIBLE VOTE ON ANNUAL REPORT FROM THE CALIFORNIA CONSERVATION CORPS- ENERGY CORPS PROGRAM. (Bill McNamara, California Conservation Corps) | 64 |

I N D E X (Cont.)

8.	PRESENTATION AND POSSIBLE VOTE ON ANNUAL REPORT FROM THE CALIFORNIA WORKFORCE DEVELOPMENT BOARD. (Sarah White, California Workforce Development Board)	84
9.	PRESENTATION AND POSSIBLE VOTE ON JOBS REPORT FROM THE CALIFORNIA WORKFORCE DEVELOPMENT BOARD. (Sarah White, California Workforce Development Board)	106
10.	PUBLIC COMMENT	--
	Adjourn	129
	Reporter's Certification	130
	Transcriber's Certification	131

1
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4
5
6
7
8
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P R O C E E D I N G S

FEBRUARY 23, 2018

1:08 P.M.

CHAIR GORDON: We will call the roll in just a second. I just want to remind Board Members to turn on your microphone when you're speaking, so that everything you say can be recorded.

And Jim, can we do the roll, please?

(Off mic colloquy.)

MR. BARTRIDGE: Okay. So let's go ahead and do the roll.

Kate Gordon?

CHAIR GORDON: Here

MR. BARTRIDGE: Heather Joy Rosenberg?

BOARD MEMBER ROSENBERG: Here. Can you hear me?

MR. BARTRIDGE: We can hear you. Thank you.

Barbara Lloyd?

BOARD MEMBER LLOYD: Here.

MR. BARTRIDGE: Chelina Odbert?

BOARD MEMBER ODBERT: Here.

MR. BARTRIDGE: Randall Martinez?

BOARD MEMBER MARTINEZ: Yes. I'm here.

MR. BARTRIDGE: David Dias?

BOARD MEMBER DIAS: Here.

MR. BARTRIDGE: And Mark Gold?

BOARD MEMBER GOLD: Here.

1 CHAIR GORDON: Great. Thank you.

2 And I just want to say welcome to our newest
3 Board members. As folks know, we've had a little bit of
4 turnover with people's terms ending and new appointments to
5 the Board, so really excited to have Barbara Lloyd and
6 Heather Rosenberg on the phone. And I don't know if
7 Barbara and Heather, do you want to take a minute to just
8 say a quick word about who you are? Heather, you want to
9 start?

10 BOARD MEMBER ROSENBERG: Sure. My name is
11 Heather Rosenberg. And I work -- I actually have an
12 independent consulting firm that works very extensively
13 with the U.S. Green Building Council, both nationally and
14 in Los Angeles. I've developed a resilience program,
15 working with organizations to build resilience processes.
16 And have a 20-year background in sustainability.

17 CHAIR GORDON: Wonderful. We're thrilled to have
18 you and that expertise on the Board.

19 Barbara?

20 BOARD MEMBER LLOYD: Yes, Barbara Lloyd. I also
21 have an independent consulting practice and I'm a former
22 Chief Deputy State Director in California. I've got a lot
23 of echo. I've had about a 25 plus year career in public
24 finance. And I'm also focused on various clean energy
25 programs as Chair of the California Clean Energy Fund

1 Innovations Board.

2 CHAIR GORDON: Fantastic. And Barbara is -- we
3 always have someone on the Board with a finance background,
4 really because of the audit that we do every year. And
5 Barbara, we're thrilled to have you. That is just such a
6 hugely important role to fill on this Board.

7 I just wanted to also recognize that we have
8 Commissioner McAllister with us today. And Commissioner, I
9 don't know if you wanted to say anything before we get
10 started.

11 COMMISSIONER MCALLISTER: Yeah, no. We're just
12 happy to host this and really just want to thank all the
13 members for contributing your time and expertise to this
14 process, especially as the program begins to change as a
15 result of new legislation and all that. So we really
16 appreciate it.

17 And of course we sit here during the meetings,
18 but we are non-voting members, so I'm basically here for
19 Chair Weisenmiller, as is his advisor, Michael Murza. Do
20 you want to say something, Michael?

21 MR. MURZA: Thank you. I am Michael Murza, the
22 Chair's Law and Policy Advisor. And Chair Weisenmiller is
23 sorry that he is unable to be here today, but he wanted me
24 to emphasize how important this program is for achieving
25 energy savings, which frees up additional money for

1 education.

2 He's also been very impressed with all of the
3 amazing progress over the last year. And he wanted to
4 thank the Board for their public service to ensure the CEC
5 provides proper stewardship of the program.

6 Finally, he wanted to extend his thanks to the
7 CEC staff for their great efforts and to everyone who's
8 worked so hard to ensure this program continues to be a
9 success for California.

10 CHAIR GORDON: Thank you, Chair Weisenmiller's
11 proxy. No, that's great. Thank you so much. It has been
12 a great year.

13 I just realized that I'm sort of doing Item 3.
14 But I'll come back to it after Item 2, which is approval of
15 minutes from the last meeting, which was quite a long time
16 ago. So do we have a motion? There are the meetings in
17 front of you, if you have a computer in front you, you can
18 see it. Look at them if you haven't before and I would
19 like a motion.

20 BOARD MEMBER MARTINEZ: I move to accept the
21 minutes from July, wow, 13, 2017.

22 BOARD MEMBER DIAS: Second.

23 CHAIR GORDON: Could we do a roll call, just
24 because of people on the phone?

25 MR. BARTRIDGE: Chair Gordon?

1 CHAIR GORDON: Yes.

2 MR. BARTRIDGE: Heather Rosenberg?

3 BOARD MEMBER ROSENBERG: Should I abstain since I
4 wasn't at the meeting?

5 CHAIR GORDON: Yeah. I think that's right.

6 MR. BARTRIDGE: Chelina?

7 BOARD MEMBER ODBERT: Yes.

8 MR. BARTRIDGE: Randall?

9 MR. BARTRIDGE: Yes.

10 MR. BARTRIDGE: David?

11 BOARD MEMBER DIAS: Yes.

12 MR. BARTRIDGE: And Mark Gold?

13 BOARD MEMBER GOLD: Yes.

14 MR. BARTRIDGE: And Barbara Lloyd, I assume you
15 want to abstain as well?

16 BOARD MEMBER LLOYD: Yes, thank you. I would
17 abstain.

18 CHAIR GORDON: Great, thank you. Minutes
19 approved, appreciate that.

20 We did already just talk about Board composition,
21 which is Item 3, so I jumped the gun on that a bit, but
22 just again really excited about new members. It's actually
23 a good moment to have that Heather and Barbara -- and we
24 have one open slot still I should say. There's still one
25 vacant spot on this Board, and I know that -- I can't

1 remember who's that is. Is it the AG's office? They're
2 working on filling that slot.

3 This is a good moment actually to have new
4 membership and because we have sort of a bunch of changes
5 happening in the program. As you know from the last
6 meeting some new legislation and some new program, kind of
7 -- all kinds of different things are happening: the end of
8 the current program, some interim steps and some things on
9 the new program, so we're actually going to get an update
10 on that right now from Jim. And for those who haven't met
11 Jim Bartridge yet, Jim is right there. You all know Jack
12 who's in here too.

13 And Jim and Jack are working together. And Jim
14 is ultimately sort of taking on the bulk of the work of
15 staffing this Board, while Jack moves to other
16 opportunities within the Energy Commission. And so thank
17 you, Jack, for all your service at the Board. We really
18 appreciate it.

19 And Jim, welcome. We are thrilled to have you.
20 Jim has a lot of experience in staffing at the Energy
21 Commission and some substantive experience on these issues,
22 and has been already very helpful in helping navigate some
23 of the very confusing changes that are happening and making
24 them simple for us. So I will turn it over to him, to do
25 that.

1 MR. BARTRIDGE: Thank you very much.

2 And real quick, since we're in the room let me
3 just go over the housekeeping, just in case. The bathrooms
4 out to your left or back to the right, you have the snack
5 bar on the second floor. And lastly, in the event of an
6 emergency follow staff across the street to Roosevelt Park.
7 And we'll come back to the building once the emergency
8 ends. And with that, let me -- oh, and there is an Item
9 Number 3 and possible vote of the Vice Chair position.

10 CHAIR GORDON: I do not have that in front of me
11 in my binder, so that is good to know. Do we need to --
12 could you just talk to me about protocol. I don't know
13 whether it's a public minutes that would not have had that
14 item?

15 BOARD MEMBER ROSENBERG: The public agenda did
16 have it.

17 MR. BARTRIDGE: It did.

18 CHAIR GORDON: Great. Okay, then, we can talk
19 about it.

20 MR. BARTRIDGE: And I put it up on the screen in
21 front of you, in yellow, so the Board shall elect a Chair
22 and Vice Chair the first meeting of the Board each year.

23 CHAIR GORDON: Great. Thank you. I'm sorry
24 about that. Yes, now I see it. All right, well going back
25 on -- I am just doing everything out of order today, sorry

1 about that.

2 Going back yes, so one of the things that
3 happened in terms of Board composition is that Walkie Ray,
4 who is the current Vice Chair, who was the Vice Chair of
5 the Board, his term ended and he decided for business
6 reasons that he had too much going on to renew. So we are
7 without a Vice Chair at this moment.

8 So this is a moment where I would love to have a
9 Vice Chair. And I would love people to step up and say
10 they want to be the Vice Chair. Otherwise, I may have to
11 start nominating people. So if anybody on the Board is
12 willing to take on that position and would like to self-
13 nominate this is the time to do it. It's a very exciting
14 job. You get to work with me and write reports.

15 No, it's actually great. You get a lot of kind
16 of visibility on the inner-workings of the program and it's
17 a very useful position for me. So I would love to hear if
18 anyone wants to nominate themselves.

19 BOARD MEMBER MARTINEZ: Did Walkie step down?

20 CHAIR GORDON: His term ended. He decided not to
21 renew it, so he decided not to get re --

22 BOARD MEMBER MARTINEZ: Is he still a member of
23 the COB?

24 CHAIR GORDON: No.

25 BOARD MEMBER MARTINEZ: Okay, so he stepped down

1 completely?

2 CHAIR GORDON: Yeah, he's off the Board
3 completely I should have said earlier, I'm sorry.

4 BOARD MEMBER MARTINEZ: Okay.

5 BOARD MEMBER LLOYD: I'd like to nominate Mark
6 Gold.

7 CHAIR GORDON: Mark, how do you feel about that?

8 BOARD MEMBER GOLD: If I get to work more with
9 you, I'm all for it.

10 CHAIR GORDON: Oh, I did not pay Mark to say
11 that.

12 Does anybody else want to be nominated or want to
13 self-nominate? I'm staring down people in the room. Well,
14 that's great. If we can vote on that? I don't know how we
15 do this. Do we accept the nomination and then vote on the
16 nomination?

17 MR. BARTRIDGE: Correct.

18 CHAIR GORDON: Great, so it's two separate
19 motions?

20 MR. BARTRIDGE: Two separate motions.

21 CHAIR GORDON: Okay. So folks, can we have a
22 motion on Mark Gold's nomination for Vice Chair of the
23 Board?

24 BOARD MEMBER MARTINEZ: So moved.

25 BOARD MEMBER ODBERT: Second.

1 BOARD MEMBER LLOYD: Second.

2 CHAIR GORDON: Great, moved. Mark has been
3 nominated. Thank you, Mark. I would like to just go
4 immediately to a vote on this, because I would love to
5 resolve it if we can, so can we have a motion on a vote?

6 BOARD MEMBER LLOYD: So moved from Barbara.

7 BOARD MEMBER ODBERT: Second.

8 CHAIR GORDON: All right. Let's do a roll call.

9 MR. BARTRIDGE: Let's do a roll call.

10 Chair Gordon?

11 CHAIR GORDON: Yes.

12 MR. BARTRIDGE: Heather Rosenberg?

13 BOARD MEMBER ROSENBERG: Yes.

14 MR. BARTRIDGE: Barbara Lloyd moved.

15 BOARD MEMBER LLOYD: Yes.

16 MR. BARTRIDGE: Chelina?

17 BOARD MEMBER ODBERT: Yes.

18 MR. BARTRIDGE: Randall Martinez?

19 BOARD MEMBER MARTINEZ: Yes.

20 MR. BARTRIDGE: David Dias?

21 BOARD MEMBER DIAS: Yes.

22 MR. BARTRIDGE: Mark, how do you feel?

23 VICE CHAIR GOLD: I'll abstain. I'll let the
24 rest of you guys vote.

25 CHAIR GORDON: Great, thank you. And I'm very

1 happy to have representation from both Northern and
2 Southern California. Actually I think that's a good thing,
3 so thank you, Mark. And you should see the audible sighs
4 of relief from the people here in room that I didn't start
5 poking them to self-nominate. Thank you very much and
6 thanks for stepping up.

7 All right. Now I have the correct agenda in
8 front of me, so now I am back to being clear on what we're
9 doing. Now, we're going to hear from Jim on the current
10 status of the program and the changes that are happening,
11 because of the recent legislative action. So Jim, I turn
12 it over to you.

13 MR. BARTRIDGE: Thank you.

14 So good afternoon, I'm Jim Bartridge. I've been
15 working with you for about a month now and really got up to
16 speed from Jack. So just thanks to Jack for all that you
17 do, I really appreciate your help in all of this.

18 Also again we have two new Board Members, Heather
19 Joy Rosenberg, appointed in January; and Barbara Lloyd,
20 appointed in February by the State Treasurer's Office.

21 I'll just walk through the Clean Energy Jobs Act
22 legislation. I won't spend a lot of time on this. But
23 just as a quick overview, here's the legislation that
24 provides the support for so many important energy
25 efficiency and clean energy projects at public schools and

1 community colleges in California over the last five years,
2 while supporting job training, workforce development and
3 creating jobs.

4 I won't go into detail again, other than to note
5 that last year's SB 110 extended the Prop 39 Program, so
6 additional schools could benefit from long-term energy
7 savings, more jobs would be created and greater greenhouse
8 gas emission reductions could be realized in the years
9 ahead.

10 SB 110 creates program changes for 2018 and
11 beyond, creates new programs for the remaining Prop 39
12 funds, and removes the sunset date for the Board, so it can
13 continue to provide program oversight and accountability.

14 Here's a look at the objectives of the Clean
15 Energy Act, The Clean Energy Jobs Act. The program was
16 intended to create energy efficiency jobs and provide
17 workforce training, save energy, reduce energy costs and
18 greenhouse gas emissions by investing in energy efficiency
19 improvements and onsite clean energy generation in
20 California's schools and community colleges, in order to
21 improve classroom learning environments for both students
22 and educators.

23 Here's a look at the overall program funding.
24 I'll note that we're at about halfway through 2017-2018.
25 But this was the allocations for the program.

1 And your mandate as the Citizens Oversight Board,
2 most of you know this, but review the Job Creation Fund
3 expenditures, do an independent audit of the fund, assess
4 projects selected for their effectiveness. And publish a
5 complete accounting of expenditures and put that up on the
6 Web. And then submit an evaluation to the Legislature
7 identifying changes needed to the program.

8 And on the report to the Legislature, the annual
9 legislative report is due 90 days after the first of the
10 year, which is the end of March. So we'll be working that
11 very soon. We've already started to draft some things. We
12 also to report on Board activity during the previous year,
13 findings and recommendations based on annual reports from
14 our other cooperating agencies: the Energy Commission,
15 community colleges, the Workforce Investment Board and the
16 California Conservation Corps. And findings on quantifying
17 total employment from the Workforce Investment Board.

18 So the audit, we have an interagency agreement,
19 with the State Controller's Office to produce an
20 independent audit and program audit of the Job Creation
21 Fund to determine if projects are consistent with the
22 program guidelines.

23 And now let me walk through some of the SB 110
24 Program changes. As you know, the Clean Air Jobs Act was a
25 five-year program. Projects funded through 2017-2018

1 continue until construction is complete and we have 12
2 months of utility data and the Board will continue to
3 oversee these projects. SB 110, as I mentioned, removed
4 the sunset data and now continues indefinitely and 110 does
5 not otherwise change the duties of Board.

6 110 created three new programs for the Board to
7 oversee and beginning in 2018-19, if the SB 110
8 appropriates any remaining funds from the Prop 39 K-12
9 Grant Program to these new programs. And then, in 2018-
10 2019, it also establishes the Clean Energy Job Creation
11 Program, which is ongoing, but subject to annual
12 appropriations from the Legislature.

13 And I'll just talk a little bit about the program
14 funding briefly. My understanding is that we've seen at
15 least in the Prop 39 Program an increase in applications.
16 We expect final numbers about a week after final energy
17 expenditure plans or revisions are submitted. And that due
18 date is February 26th. So about a week after that, the
19 Energy Commission works with the Department of Education to
20 figure out what that number is. As of February 12th we had
21 about \$236 million remaining, but we expect that number
22 would decrease significantly.

23 Okay. Of those new programs the first one, the
24 School Bus Replacement Program, would be funded up to 75
25 million for school districts and county offices of

1 education again funded by remaining Prop 39 K-12 funds.
2 Administered by the Energy Commission in consultation with
3 the Air Resources Board and funding for replacements
4 prioritized by the oldest school buses for those operating
5 in disadvantaged communities. And areas where the majority
6 of students are eligible for free or reduced priced meals.

7 And I'll just say that the old school buses must
8 be scrapped. It's not a retrofit. They just need to be
9 scrapped and the Energy Commission can also work with local
10 air districts to administer some of that funding.

11 New program two is the ECCA-Ed Competitive Loan
12 Program. It's up to \$100 million funded out of the
13 remaining Prop 39 K-12 Program dollars, support for low and
14 no interest revolving loans. And again, administered by
15 the Energy Commission, this time is a competitive program
16 as well.

17 The funding prioritized percentage of students
18 for free or reduced price meals, energy savings, geographic
19 diversity and diversity and size of student population.

20 And then program three, a Prop 39 Competitive K-
21 12 Grant Program for local education agencies, funded again
22 out of the original remaining program dollars, administered
23 by the Energy Commission.

24 And on the development of these three programs --
25 so first of all the program funding is a mix between the

1 size of the school districts and the other points that I
2 noted in the last slide, which was percentage of students
3 eligible for free or reduced priced meals, energy savings,
4 geographic diversity, so formula-based programs.

5 The Energy Commission staff has already had three
6 workshops on this, on the conceptual design of these
7 programs. I think the comments due back is February 28th,
8 so they had workshops on the 14th, the 20th and the 21st,
9 to talk with stakeholders about how these programs might
10 roll out, asking for input and ideas. Again, feedback by
11 February 28th.

12 And then SB 110 new programs, I call them new
13 programs, but really they depend on whether future funding
14 from the Legislature materializes. And if it does, the
15 Energy Commission program would become competitive while
16 projects at community colleges would still be at the
17 discretion of the Chancellor.

18 And that's all I have. What I did put in the
19 background for you was the existing program and
20 responsibilities of other agencies here. And of course
21 loaded throughout are pictures of actual projects that have
22 gone on at schools that have been a success so far.

23 And so here's the state agency rolls of current
24 programs. And I'll just put that out there for you. You
25 can review it at your leisure. And that's what I have for

1 you today.

2 CHAIR GORDON: Thank you, Jim. That was a great
3 refresher on some things and a reminder about new things.
4 And I have a couple of questions, but I'm going to let
5 others jump in first, because I'm sure there are some.

6 Chelina?

7 BOARD MEMBER ODBERT: Can you just clarify, is
8 the School Bus Program competitive or is there a formula
9 allocation?

10 MR. BARTRIDGE: It's both. It prioritizes by
11 certain areas and then it's also competitive as well. It's
12 a mix.

13 CHAIR GORDON: So do people -- do those LEAs get
14 extra points or something on the application if they meet
15 these criteria or do we know?

16 MR. BARTRIDGE: There was an entire presentation
17 I can give you that staff went through that was pretty
18 recent that talked about the geographic diversity, how they
19 split up the geographic diversity and then the school
20 districts. So I can provide that to you.

21 CHAIR GORDON: And also just because this took me
22 a really long time to understand, so I'm going to just
23 clarify it again for everyone else. So the school buses
24 and EECA are guaranteed -- well, they're guaranteed up to a
25 certain amount of money. So 75 million for the buses and

1 100 million for EECA of the remaining money from the first
2 phase of this whole thing, right? We don't actually know
3 how much remaining money there will be. So one of the
4 questions I have that I don't think we know yet is what
5 happens if there's less than \$175 million remaining? Is
6 that prorated between those two? Is one prioritized over
7 the other? No, we don't probably know, right?

8 MR. BARTRIDGE: I don't think I have the answer for that.

9 MR. BUCANEG: I do.

10 MR. BARTRIDGE: Go ahead.

11 CHAIR GORDON: Yes. Please step in staff who are
12 in the room, if you know.

13 MR. BUCANEG: No problem. This is Haile Bucaneg,
14 I'm with the California Energy Commission. So the way that
15 the legislation was written out is that the first 75
16 million goes to the grant program and then after the next
17 100 million -- or I'm sorry, the first 75 million goes to
18 the Bus Program and then the next 100 million goes to the
19 grant program, so they'll be funded in that order.

20 CHAIR GORDON: Okay. Randall, David?

21 COMMISSIONER MCALLISTER: So you really meant
22 that the next 100 goes to the loan program and then the
23 third, if there's any money left over then all of that goes
24 to the new grant program?

25 CHAIR GORDON: Right. Thank you for clarifying,

1 Commissioner.

2 Randall, David, questions at this moment?

3 BOARD MEMBER MARTINEZ: No.

4 CHAIR GORDON: On the phone?

5 BOARD MEMBER LLOYD: That was my question.

6 VICE CHAIR GOLD: No further questions.

7 BOARD MEMBER ROSENBERG: No.

8 CHAIR GORDON: Okay, so just to the extent, just
9 to put a point on our role here as the Board. Jim made the
10 point as I think we've said several times that our
11 oversight role doesn't change. So our requirements are
12 still the audit and the report to the Legislature.

13 MR. BARTRIDGE: Correct.

14 CHAIR GORDON: Two things about that. One, on
15 the audit, we've been having a number of conversations just
16 to ensure that the money for the audit is still in the
17 budget, because so much of the budget is becoming annual
18 appropriations. And my understanding is we do still have.

19 MR. BARTRIDGE: My understanding is we do still
20 the 300.

21 CHAIR GORDON: The 300,000 for the audit.

22 MR. BARTRIDGE: To support that. Correct.

23 CHAIR GORDON: And the second question, or the
24 second point that I just wanted to make, is that because
25 this becomes an annual appropriation the report to the

1 Legislature is actually that much more relevant. Because
2 the Legislature will actually be decided to appropriate it
3 now on an annual basis instead of having a specific amount
4 that automatically goes into this program.

5 MR. BARTRIDGE: Right.

6 BOARD MEMBER MARTINEZ: Jan, I have question --
7 excuse me, Kate.

8 CHAIR GORDON: That's okay. It's a great name.
9 (Laughter.)

10 BOARD MEMBER MARTINEZ: I have a question.
11 Excuse me, Kate.

12 CHAIR GORDON: That's okay. Kate is a great
13 name.

14 BOARD MEMBER MARTINEZ: On the subject of the
15 audit I recall that we spent a little bit of time scoping
16 out the scope of work for the audit under the previous
17 system. With these three new programs in place, will we
18 require an additional scoping session for the audit?

19 CHAIR GORDON: That is a great question. We have
20 a current, and please Jack or Jim, join in on this if I get
21 this wrong. We have a current three-year contract with the
22 Controller's Office on our audit, which ends kind of
23 coincident with the ending of the first phase. So they're
24 doing the audit we always said they were going to do,
25 right?

1 But it's a great question on both what the scope
2 will be on the next audit, I think, and whether we want to
3 put it out for bid. So Jack, do you want to add anything?

4 MR. BASTIDA: Yeah. Our scope of work goes three
5 years, so we're in year two right now. We have one more
6 year left, but we can always change our scope of work this
7 year or next year, with the auditor, so

8 CHAIR GORDON: But am I right? I'm right that
9 the three year, in their third year, they will be auditing
10 what's happening now.

11 MR. BASTIDA: Yes. Yes.

12 CHAIR GORDON: Which is prior to the bus
13 (indiscernible) --

14 MR. BASTIDA: Right. I don't think they'll be
15 able to roll out the Bus Program until next year.

16 CHAIR GORDON: Right. Until the next -- until
17 after their three year. Yeah, so we should -- well, we
18 should just make a note that after we get through this
19 craziness of the legislative report phase we should have
20 the meeting after that focus on this question, because it's
21 a really good question. Because this will change, I mean
22 there are many, many questions that come up with that. So
23 how do we -- does the SIR, does everything apply to the Bus
24 Program, for instance? How do we evaluate that? I think
25 that's the place where I, at least am the least educated,

1 so great question.

2 MR. BASTIDA: Thank you.

3 COMMISSIONER MCALLISTER: Just as a point of
4 information, we are having a series of workshops to talk
5 about program design on the two new phases, the two new
6 programs. Well, actually all three, because they're all
7 new, but I think we have two of those happened already?

8 MR. BARTRIDGE: There's three, all three of them?

9 COMMISSIONER MCALLISTER: No. All three of them
10 have happened already, so we have had the series already.
11 They were the week before last, or last week. So depending
12 on how this sort of program designs shake out then some of
13 those, I think, will have clearer understanding of what the
14 needs of the Board are.

15 BOARD MEMBER ODBERT: Is it still too early to
16 know exactly when applications would be open on these three
17 new programs? I know, because they're still in design, but
18 is there like a --

19 MR. BARTRIDGE: We, Jack and I attended the first
20 workshop, staff workshop and they were looking towards the
21 end of the year. So time to design the program, time to
22 get it out there, they're taking feedback and comments on
23 design. There were a number of questions from school
24 districts about the buses themselves.

25 And so I think they're looking towards the fall

1 to get those programs out and going, to actually put out
2 the funding opportunity. Yeah.

3 BOARD MEMBER ODBERT: Okay, thanks.

4 MR. BASTIDA: We were planning on having the Bus
5 Program come speak to the Board at the March meeting,
6 perhaps.

7 MR. BARTRIDGE: Okay.

8 MR. BASTIDA: So we're kind of geared towards
9 answering some of those questions then.

10 CHAIR GORDON: Great. This is really helpful.
11 So I think we're all laser focused today and at our next
12 meeting on this year's report to the Legislature, but these
13 are all things that we will have to turn our minds to
14 pretty quickly after that report is in the bag.

15 So just as a reminder as we go on to the next
16 item, every year we do a report to the Legislature. It's
17 one of our primary responsibilities. That's the place
18 where this Board provides recommendations. We provide an
19 overview. Essentially it's a summary report that goes on
20 top of all of the agency reports that we attach as
21 appendices, which we'll be talking about today. And then
22 we provide a set of -- I sort of would say a summary of all
23 those and a set of recommendations. And those
24 recommendations -- that section is an important section for
25 the Board to engage on.

1 The first, we always every spring have two
2 meetings in a row. And the first is today's and it's the
3 meeting where we hear from each of the agencies about what
4 they have found in the last year, what they have included
5 in their report. And it give us the opportunity to ask
6 them for any changes or to approve their report as part of
7 our -- essentially as an appendix to our final report. We
8 can approve with amendments, which is often what we end up
9 doing.

10 So that's today's meeting.

11 And then the meeting we're going to have on March
12 something?

13 MR. BARTRIDGE: 22nd.

14 CHAIR GORDON: The 22nd, I think, yeah.

15 MR. BARTRIDGE: It's the 22nd. We've been so
16 focused on this one that --

17 CHAIR GORDON: I think that's right.

18 MR. BARTRIDGE: -- we did get the other one
19 scheduled, but I don't know the date off of the top of my
20 head.

21 CHAIR GORDON: It should be in your calendars. I
22 think it's the 22nd. That meeting will be the meeting
23 where we review our own report and ideally approve it. A
24 reminder to the Board that our report is due on the 30th of
25 March; it's due 90 days after the beginning of the year,

1 which is March 30th. And so it is a bit of a scramble. So
2 these two meetings are very, very important. We have to
3 have a quorum, we have to have engagement, people have to
4 prepare for them. They are sort of our more important
5 meetings of the year.

6 So with all that said, going to Item 5 what we're
7 going to do now is start hearing from the agencies on their
8 reports.

9 And we will start with the Energy Commission on
10 the K-12 Program.

11 MR. HOLLAND: So good afternoon Board Members and
12 guests. My name is Jim Holland. I'm with the Local
13 Assistance and Financing Office of The Efficiency Division
14 here at the Energy Commission.

15 For your consideration and possible approval on
16 behalf of the Energy Commission and the Prop 39 staff, I'll
17 present an overview of the Energy Commission's third annual
18 report to the Citizens Oversight Board. For your
19 information today, I will give a brief overview of the
20 Energy Commission's report to the COB. My presentation
21 will begin with a report overview then transition to
22 highlights of our three programs: the Prop 39 K-12 Program,
23 the Energy Conservation Assistance Act, Education
24 Subaccount Loan Program and our Bright Schools program.
25 Then wrap up the presentation with some time for questions.

1 First, I'd like to begin with the report
2 overview. The Energy Commission administers three
3 components of the California Clean Energy Jobs Act
4 including the grant program called the Prop 39 K-12
5 Program; a revolving loan program, the Energy Conservation
6 Assistance Act Education Subaccount Program also known as
7 ECCA-Ed; and a technical assistance program called the
8 Bright Schools Program.

9 All three programs receive funds from the Clean
10 Energy Jobs Creation Fund, created by Prop 39.

11 Our report to the Citizens Oversight Board
12 provides progress on all three programs. This is the
13 Energy Commission's third progress report to the Citizens
14 Oversight Board. The most recent report summarizes results
15 from the start of the Prop 39 K-12 Program in December of
16 2013 through June 30th, 2017.

17 Before discussing the program's status it's
18 helpful to review the appropriations for this reporting
19 period. This slide summarizes the 2013-'14, '14-'15, '15-
20 '16 and '16-'17 fiscal years' Clean Energy Job Creation
21 Fund Appropriations for the Energy Commission's programs.

22 The K-12 Program has a total appropriation or
23 nearly \$1.4 billion. The ECCA-Ed Program has a total
24 appropriations of 56 million for the 2013-'14 and '14-'15
25 fiscal years. The ECCA-ED Program did not receive

1 additional funding in fiscal years 2015-'16, or 2016-'17.

2 The first program I'll discuss is the Prop 39 K-
3 12 Program, which provides grant funding for the
4 installation of eligible energy efficiency and clean energy
5 generation measures at K-12 schools. The Energy Commission
6 is primarily responsible for administering the Prop 39 K-12
7 Program by receiving, reviewing and approving energy
8 expenditure plan applications.

9 I would like to give a brief description of how
10 the Prop 39 funding application process works. First, a
11 local education agency or LEA completes an energy
12 expenditure plan by using the Energy Commission's Energy
13 Expenditure Plan Online System. Once all of the necessary
14 information is entered and the supporting documents are
15 uploaded, the LEA submits the plan to the Energy
16 Commission.

17 Once the Energy Commission receives the LEA's
18 energy expenditure plan, a staff member in the Local
19 Assistance and Finance Office reviews the plan for accuracy
20 and completeness. Once this review is complete, the staff
21 person approves the plan. After approving the plan, the
22 Energy Commission notifies the California Department of
23 Education that the plan has been approved. This
24 notification of approved plans occurs on a weekly basis.
25 Once the California Department of Education gets the

1 approval notification from the Energy Commission, it
2 distributes funding on a quarterly basis.

3 During the first four years of the Prop 39 K-12
4 Program, nearly \$1.4 billion was appropriated for the
5 program. Of this amount, 1.1 billion went to public
6 schools, 254 million went to charter schools, and 15
7 million went to county offices of education. Just under
8 500,000 was allocated to three state special schools.

9 For the reporting period covered by this report,
10 there were 2,176 LEAs eligible to participate in the Prop
11 39 K-12 Program. Of this number, 1,177 were charter
12 schools, 938 were public school districts, 58 were county
13 offices of education and 3 were state special schools.

14 As of June 30th, 2017 1,058 million had been
15 approved for the Energy Expenditure Plan through efficiency
16 and renewable energy projects. And 154 million had been
17 allocated by the Department Of Education for project
18 planning purposes.

19 This slide summarizes the amount of funds
20 approved and the reported amount spent, as of June 30th,
21 2017. At the end of the most recent reporting period,
22 1,212 million in Prop 39 funds had been approved through
23 energy expenditure plans and distributed as planning funds
24 and 669 million had been reported spent by local education
25 agencies. These values are about double of what was

1 reported in the previous reporting period that ended June
2 30th, 2016.

3 Allocations to local education agencies are
4 primarily based on the prior year's average daily
5 attendance with four tier levels designed to cover the
6 various attendance numbers. Tier 1 LEAs have 100 or less
7 students. Tier 2 LEAs have 101 to 1,000 students. Tier 3
8 LEAs have 1,001 to 1,999 students. And Tier 4 LEAs have
9 2,000 or more students.

10 This slide summarizes the participation by the
11 LEAs according to their tier levels. Tier 3 LEAs have the
12 smallest participation number, at 123. And Tier 2 LEAs
13 have the largest participation number at 694. The total
14 participation of LEAs across all tier levels was 1,374, as
15 of June 30th, 2017. The 1,374 participating LEAs received
16 approval for 1,452 energy expenditure plans representing
17 5,238 sites as of June 30th, 2017.

18 There are a variety of energy efficiency and
19 renewable energy measures that are eligible for Prop 39
20 funding. These measures include but are not limited to
21 lighting systems; heating and cooling systems; control
22 systems for lighting and HVAC, which is heating,
23 ventilation and air conditioning; pumps and motors;
24 building insulation and energy generation, which is
25 typically photovoltaic systems.

1 Here, I'd like to discuss the types of energy
2 measures that have been funded. Each approved EEP, or
3 energy expenditure plan, can represent multiple energy
4 efficiency and clean energy measures at multiple school
5 sites within an LEA. This table shows the breakdown of
6 measure quantity and the project costs associated with each
7 category of approved energy measures: 51 percent of the
8 approved energy measures are for lighting, 21 percent fall
9 into the category of control measures for both lighting and
10 HVAC, 15 percent are HVAC measures and 10 percent are for
11 other energy efficiency measures.

12 Self-generation, primarily photovoltaic accounts
13 for 2 percent of our approved measures.

14 In regards to the project costs associated with
15 the energy measure categories the lighting category had the
16 highest percentage of total project costs, comprising over
17 38 percent of the total Prop 39 funding amount. HVAC
18 measures came in second most costly at 36 percent.

19 The next section of the Prop 39 K-12 presentation
20 summarizes the program's accomplishments. This is just a
21 small representation of the thousands of energy measures
22 being installed throughout California as a result of this
23 program.

24 This slide shows the cumulative results of the
25 final project completion reports for the three reporting

1 periods. Looking at the right-hand most column: 174
2 completed EEPs where final project completion reports have
3 been submitted, represent \$116 million in total project
4 costs and \$97 million in Prop 39 grant funds.

5 The reported annual energy savings for these
6 completed projects is nearly 43,000 megawatt hours in
7 electricity and over 146,000 therms of natural gas. The
8 reported energy cost savings is \$7.8 million.

9 Most of the 174 LEAs with completed energy
10 projects experienced a decrease in energy use intensity,
11 also known as EUI. The EUI is a metric that measures the
12 annual rate of energy use per square foot of building
13 space, per year. It can be compared to a miles per gallon
14 used to measure vehicle fuel economy. Overall, this group
15 of 174 EEPs saved an average of 14.4 thousand Btus per
16 square foot. This was calculated by comparing the 12
17 months of energy usage data reported on an EEP application
18 to 12 months of post energy measure installation, energy
19 usage data, reported on the final project completion
20 reports.

21 As previously indicated 1,374 LEAs had
22 participated in the Prop 39 Program as of the end date of
23 the most recent reporting period, which was June 30th,
24 2017. Since that data, the total number of LEAs
25 participating in the Prop 39 Program has jumped to 1,608 as

1 of January 28th, of 2018. That is an additional 234 LEAs
2 prior or that added on after the June 30th cut of date for
3 this report.

4 ECCA-Ed includes a revolving loan program funded
5 by the Job Creation Fund that provides zero percent loans
6 to K-12 LEAs and community college districts for energy
7 efficiency and clean energy generation projects, with loan
8 repayments being based on energy cost savings. ECCA-Ed
9 receives \$28 million in fiscal years 2013 and 2014 and
10 2014-2015 fiscal years for a total of \$56 million. No
11 funding was allocated in fiscal year 2015-'16 or 2016-'17.

12 Also included on this slide is funding for our
13 Bright Schools Program. Public Resources Code authorizes
14 the Energy Commission to set aside 10 percent of the Job
15 Creation Fund for school technical assistance to identify
16 Prop 39 energy projects. Therefore, the Bright Schools
17 Program received just over \$5.5 million of the \$56 million
18 allocation.

19 As of June 30th, 2017, 32 ECCA-Ed loans were
20 approved by the Energy Commission. This represents a total
21 of 49.1 million in approved loan funds and \$46.1 in spent
22 loan funds. EECA-Ed loan recipients request loan funds on
23 a reimbursement basis, based on invoices submitted to the
24 Energy Commission. Of the 32 loans, 25 recipients have
25 completed projects and 10 of these have submitted the final

1 project completion report. The remaining 7 loans are still
2 in the construction phase.

3 Like the Prop 39 Grant Program, ECCA-Ed loans
4 fund energy efficiency and renewable energy projects. Each
5 loan can represent multiple energy measures. Of the 32
6 loans, 7 funded energy efficiency measures, 13 funded
7 renewable energy measures and 12 loans funded a combination
8 of both energy efficiency and renewable energy measures.

9 The third program administered by the Energy
10 Commission is the Bright Schools Program. Again, this
11 program operates through the Prop 39 ECCA-Ed funding. The
12 Bright Schools Program assists LEAs in identifying energy
13 saving projects in existing school facilities. The program
14 provides a range of technical assistant services, including
15 energy audits, third-party proposal review and professional
16 engineering support services.

17 The Energy Commission, through a competitive
18 contract solicitation selected a prime contractor for the
19 team of professional engineers and analysts to provide
20 technical assistance and support for the Bright Schools
21 Program. As of June 30th, 2017, nearly \$3 million had been
22 spent for technical assistance out of a total of 5.6
23 million that had been allocated to the program. This
24 leaves the Bright Schools Program balance of just over \$2.5
25 million to be used for future technical assistance.

1 The Bright Schools Program provided technical
2 assistance to 165 LEAs and community college districts
3 during the reporting period, identifying energy measure
4 opportunities at 311 school sites. These energy measure
5 recommendations represent an estimated annual electrical
6 savings of 27,000 megawatt hours and natural gas savings of
7 over 304,000 therms, with total estimated energy cost
8 savings of more than \$4.4 million.

9 This concludes my presentation and I thank you
10 for your time. And if you have any questions I will
11 attempt to answer them. Thank you.

12 CHAIR GORDON: Great. I'm sure we do.

13 So I will look in the room first to see if
14 anybody wants to jump in. This is the largest chunk of
15 money, as we all know, from the program. And I will just
16 say it's very impressive how much more uptake of the
17 schools have been participating, which is amazing. A lot
18 more participation it seems like from the smaller schools,
19 which is really great. Didn't we had that concern last
20 year, I remember? So is that your sense as well?

21 MR. HOLLAND: Yeah. The Tiers 2 and 3, I think
22 their numbers were -- Tier 2 had the highest participation
23 and that tier is 101 to 1,000 students.

24 CHAIR GORDON: Right. That's a huge change from
25 last year for those of you who remember.

1 MR. HOLLAND: Almost the smallest.

2 CHAIR GORDON: Last year we'd put in our report,
3 for those new to the Board, that we were a little concerned
4 about the smaller schools last year, because of the lack of
5 participation. But it looks like they've rallied, which is
6 great. And those savings numbers are really impressive.
7 So thank you, as always, for your great work.

8 Randall, you look like you have a question?

9 BOARD MEMBER MARTINEZ: I do, just following your
10 same train of thought on how you've broken up the schools
11 by tier, which is very helpful.

12 MR. HOLLAND: Sure.

13 BOARD MEMBER MARTINEZ: I'm curious about the
14 geographic disbursement of the tiers. Were they mostly
15 located in a certain area or were they pretty disbursed
16 throughout the state?

17 MR. HOLLAND: I don't believe that, I mean just
18 by the way the state is populated I would imagine a lot of
19 the smaller LEAs are in the northeast part of the state.
20 But we do in the main report, have a geographical map of
21 participation. It's not in my presentation, but I can
22 certainly --

23 CHAIR GORDON: It's on page six of the --

24 MR. HOLLAND: -- get you that. Yeah, page six of
25 the main report, under the geographical distribution of

1 participation.

2 BOARD MEMBER MARTINEZ: Yes. I have it now.

3 Thank you.

4 MR. HOLLAND: And there were two counties, I
5 believe, that had 100 percent. Actually three: Plumas,
6 Sierra and Calaveras counties had 100 percent
7 participation.

8 CHAIR GORDON: Cleary, we need to send someone to
9 Alpine County to talk to the 1,100 people that live there.
10 That's not right.

11 MR. HOLLAND: We may actually have gotten input
12 since the report date. Did we get Alpine County?

13 UNIDENTIFIED SPEAKER: I've been having contact
14 with them and they're (indiscernible).

15 COMMISSIONER MCALLISTER: One thing that we --
16 yeah it's actually gratifying, the last six months, to kind
17 of see how things have moved forward, because early on we
18 sort of imagined a trajectory of applications. You know?
19 And we were thinking, "Well, gosh. How many?" We were
20 thinking we were assuming or presuming that since schools
21 have so much going on and they wear lots of hats,
22 especially the medium and small ones, that they might wait
23 as they're permitted to do, until the last year and apply
24 for the whole multiple years of funding at once, right at
25 the end. That's the most efficient thing to do.

1 And so the numbers kind of reflected that for a
2 long time. And then we were sort of on the edge of our
3 seats, "Okay. Is that really going to happen?" And it
4 appears that that is what has happened. And so those
5 middle-sized schools kind of strategically said, "Okay.
6 Well, when we have all the money ready to be asked for,
7 we'll ask for it."

8 And so I think that's partly the reason of what's
9 been going on. So I've seen very strong in the last few
10 months, right up until the end of the program, very strong
11 submittals. Large numbers of submittals, including by
12 schools that have never submitted before.

13 BOARD MEMBER MARTINEZ: One more question. As I
14 reflect on our new programs, especially those programs and
15 funds that are going to be competitive in nature, I think
16 it's important for us to keep in mind the geographic
17 disbursement that we have enjoyed so far. And make sure
18 that we ensure that's the case when it becomes more
19 competitive.

20 CHAIR GORDON: That's a great point. And I think
21 there are -- am I right that there are regulations within
22 the new legislation that look at that?

23 COMMISSIONER MCALLISTER: Yeah, the statute
24 requires that of all of them.

25 CHAIR GORDON: Okay. So the statute requires a

1 certain amount of geographic dispersal, I think. It's
2 competitive, but within tiers I think still, right. Am I
3 right?

4 COMMISSIONER MCALLISTER: Yes. The areas and
5 then size --

6 CHAIR GORDON: Can you use your microphone just
7 because --

8 COMMISSIONER MCALLISTER: It's competitive. I
9 mean, staff can answer all these too, I think, but
10 competitive within both geographic area and within school
11 size tiers.

12 But it does introduce some complexity in that it
13 turns into a lot of buckets across the state, depending how
14 big the school is and where it is. And so it's got to be
15 competitive within each bucket, and so because of it the
16 program design actually becomes pretty interesting when you
17 have to take all that into account.

18 BOARD MEMBER LLOYD: Hi. This is Barbara Lloyd.

19 CHAIR GORDON: Go ahead, Barbara.

20 MR. HOLLAND: Yes, ma'am?

21 BOARD MEMBER LLOYD: Thank you. I noticed that
22 SIRs, a savings investment ratio, seems pretty important.
23 But I only see aggregate-based (indiscernible) --

24 CHAIR GORDON: Barbara, you're breaking up. I'm
25 so sorry. I wonder if that's an issue on your end or ours?

1 UNIDENTIFIED SPEAKER: She should get off
2 speaker.

3 CHAIR GORDON: If you're on speaker, can you get
4 off it? Just ask the question.

5 VICE CHAIR GOLD: It's a speaker phone though.

6 CHAIR GORDON: All right. Well, try again. We
7 heard you were asking about the savings investment ratio.
8 Go ahead.

9 BOARD MEMBER LLOYD: Yes. Is there a way to see
10 the SIR for each category of expenditures, rather than just
11 aggregate? So know which type of expenditures provide the
12 most bang for the buck?

13 MR. HOLLAND: Well, I'm sure there's ways that we
14 can parse out those numbers. I don't have various
15 breakouts like that at this point, but if we have any
16 requests to break out SIR by different categories we can
17 certainly do that. But right now I only have them
18 aggregate for the entire reporting period.

19 CHAIR GORDON: So by category, Barbara, you mean
20 by like lighting and HVAC and those categories?

21 BOARD MEMBER LLOYD: That's what I would suggest
22 at the front end. If there's some reason why that's too
23 granular, at least at the broader categories. I don't
24 think it's -- you should be able to get it for categories.

25 MR. HOLLAND: Yes, ma'am. I think we can. We

1 just need to know what the request would be and we can run
2 the numbers I'm sure, by various efficiency measure types
3 or by tier levels, pretty much anything.

4 CHAIR GORDON: So Barbara, we have an opportunity
5 to suggest some amendments. So if it's possible for you to
6 look in the main report and identify where, what kind of
7 section you're talking about, and we can figure out what
8 makes the most sense.

9 BOARD MEMBER LLOYD: My first suggestion would be
10 to look at the summary of information on the presentation
11 on slide 15 and simply add an SIR measure in each of those
12 categories. And then let that flow through to the proper
13 place in the report, which I think might be page 17 of the
14 main report.

15 VICE CHAIR GOLD: But you do bring up an
16 interesting point, Kate, on (indiscernible) by tier
17 (indiscernible) --

18 CHAIR GORDON: Oh. We always have problems with
19 this L.A. phone connection. I'm so sorry. Mark, hold on
20 one second. Do we have any idea why they're breaking up so
21 much? Is it a noise on our end problem?

22 COMMISSIONER MCALLISTER: Yeah, if you -- whoever
23 is speaking gets close to the mic and enunciates and speaks
24 a little bit more loudly, I think maybe that could solve
25 the problem depending on which (indiscernible)

1 CHAIR GORDON: Yeah, Mark. Can you start again
2 really close to the mic?

3 VICE CHAIR GOLD: Yeah, I was just adding to what
4 you previously said (indiscernible). I thought it was an
5 interesting idea that even if there's differences by tier
6 of the LEAs, and whether or not -- how they're doing in
7 performance matters (indiscernible).

8 MR. HOLLAND: Certainly, I think we can run
9 numbers for pretty much any category that that is
10 requested. We'll just need to get it. And certainly, if
11 anyone wants to email me I can certainly work on getting
12 those numbers for the Board.

13 CHAIR GORDON: Thanks. I think ideally, because
14 of the vote we have to take today, we have to be able to
15 vote on approving with amendments. So to the extent we can
16 be very clear today on what those amendments are, what we
17 need from you, that would be good.

18 So it sounds like it is possible to look at the
19 SIR by those categories, which I understand the impetus for
20 the question. We always want to know why people do the
21 things they do. So --

22 MR. HOLLAND: Sure. I believe it's possible to
23 run SIRs for tier levels, for measure categories and so on.

24 UNIDENTIFIED SPEAKER: What we can do is we can
25 run the SIR for different categories and then bucket them

1 out by tiers.

2 Just kind of one things to address kind of the
3 question that was on the line is why certain measures seem
4 to have a higher number of measures being implemented. And
5 it just is that lighting, we typically see that lighting
6 measures have a higher SIR, so a lot of LEAs are using the
7 higher SIR lighting to help balance out lower SIR projects,
8 so.

9 BOARD MEMBER LLOYD: I think the specific request
10 that I would have is that the table found on page 15 of
11 your presentation, be added to the report in the section
12 that starts on Page 16, which is identify --

13 CHAIR GORDON: Of page 16, which is where I think
14 it is now. So it's currently on page 16 of the main report
15 is the same table.

16 BOARD MEMBER LLOYD: Oh, I'm sorry. I was going
17 down below. Just add the column to that Table 9 that
18 indicates the SIRs for each of these categories. If it's
19 feasible to add a supplemental table that includes
20 information by tier amongst these categories, I certainly
21 don't object.

22 MR. HOLLAND: I believe we can do that.

23 CHAIR GORDON: So definitely a column of SIR to
24 this table would make sense to you, Seth? (phonetic)

25 UNIDENTIFIED SPEAKER: Yeah.

1 CHAIR GORDON: And then if feasible, I think just
2 if feasible by tier. The point you just made, I think,
3 also if it's not in here it would be good to put in here,
4 if you are adding the SIR by category, to make the point
5 that you see projects evening out their SIR by taking on
6 lighting measures, for instance. And then being able to do
7 other projects that are lower SIR and balancing that out.
8 I think that's actually a really important point, so it
9 would be great to have that in here.

10 COMMISSIONER MCALLISTER: Which is, in fact the
11 best practice in program design, right? So you want to
12 have the longest reasonable payback that you can have,
13 because that enables you to do more.

14 I wanted to just point out these are the reported
15 -- or I wanted to ask staff actually, these are the
16 reported savings in the final report. Correct?

17 MR. HOLLAND: Yes, sir.

18 COMMISSIONER MCALLISTER: Okay. So these have
19 not had evaluation?

20 MR. HOLLAND: Correct.

21 COMMISSIONER MCALLISTER: They're not going
22 through formal evaluation to affirm or to put out these
23 (indiscernible)?

24 MR. HOLLAND: Correct. There have been no
25 follow-up like site visits or data logging or anything like

1 that. This is based on their pre-installation energy use
2 and then the post-installation energy use. And these
3 energy savings are the result of that.

4 COMMISSIONER MCALLISTER: So they have actually
5 used their pre and post data to come up with these savings?

6 UNIDENTIFIED SPEAKER: For the final project
7 completion reports, we asked them to report energy savings.
8 And we give them number of ways to do that. And one of
9 them is to do measurement and verification. Most LEAs
10 don't do that due to costs of doing that.

11 We also allow them to calculate it based on
12 equipment, pre and post-equipment. And we also allow them
13 to use pre and post-data to do straight comparison.

14 COMMISSIONER MCALLISTER: Okay. So it's up to
15 them?

16 UNIDENTIFIED SPEAKER: Yes.

17 COMMISSIONER MCALLISTER: All right. Thanks.

18 BOARD MEMBER LLOYD: This is Barbara with a
19 clarification question. Does the fact that people may be
20 doing multiple measures make it difficult to assign an SIR
21 by categories for projects that have multiple measures?

22 UNIDENTIFIED SPEAKER: We do require the required
23 LEAs to report savings and cost savings information as well
24 as project costs by individual measure. So we should be
25 able to tease that out and get the SIR by measures. It's

1 just we're going to have to go through that application to
2 do that and just kind of combine everything together as
3 lighting instead of the way that their combined now, which
4 is SIR per LEA application.

5 So it's just going to take a little bit of time
6 to massage the information that we do have.

7 CHAIR GORDON: Chelina, I know you had a
8 question?

9 BOARD MEMBER ODBERT: Sure. This question is a
10 bit in the weeds, but I think it's relevant. In the report
11 it's Table 10, you also showed it on one of the slides.
12 It's a cumulative summary of final project completion
13 reports?

14 MR. HOLLAND: Right. Let's see which one is it?

15 CHAIR GORDON: It's on page 19.

16 BOARD MEMBER ODBERT: On page 19 in the report.

17 MR. HOLLAND: Right. Is it this?

18 BOARD MEMBER ODBERT: Yes. That's the one.

19 MR. HOLLAND: Okay.

20 BOARD MEMBER ODBERT: So given that one of the
21 overarching goals of the program is to free up money
22 through energy savings to be used for other expenses that
23 the schools have, I just want to ask if I'm understanding
24 what that savings might be per school. So is it
25 appropriate to take this 7.8 million total cost saving

1 number and divide it by this 174 projects to -- is that
2 number a representative number of let's say money that
3 could be freed up to be used for other expenses?

4 MR. HOLLAND: That would be a very -- a simple
5 way of doing it, but of those 174 projects it could vary
6 widely.

7 BOARD MEMBER ODBERT: Sure.

8 MR. HOLLAND: Some of the sites may have saved a
9 lot less than 1/174th of that.

10 BOARD MEMBER ODBERT: Sure.

11 MR. HOLLAND: And some may have saved more, but
12 certainly the simplest way to do it would be to divide the
13 7.8 million by 174.

14 BOARD MEMBER ODBERT: And this represents an
15 annual number. So one would -- again, I know that this is
16 just a very simplified way of doing it, but you would
17 whatever that number is, something like 45,000 is an annual
18 savings?

19 MR. HOLLAND: Correct.

20 BOARD MEMBER ODBERT: Thank you.

21 CHAIR GORDON: Other questions, Randall, Dave on
22 the phone?

23 BOARD MEMBER DIAS: No, actually (indiscernible)

24 CHAIR GORDON: Great. The one question I had was
25 on your slide about the tiers, the participation by tier is

1 like one of your first slides. I was interested in
2 whether, and maybe it's in the report, whether you indicate
3 anywhere what the breakdown is of the number. What
4 percentage of those schools in the tier is that, do you
5 know what I mean?

6 MR. HOLLAND: Sure. And I actually do have the
7 totals that I worked up after I generated this slide show.
8 So for example, for Tier 1 there were 137 participants.
9 The total eligible at the time was 255.

10 CHAIR GORDON: Would it be easy -- it sounds like
11 it would -- for you to add to -- actually I don't think
12 this chart is in the report, is it? Am I wrong?

13 MR. HOLLAND: Yes. This chart or something very
14 similar to it is in the report.

15 CHAIR GORDON: Okay. I don't know. I just
16 didn't see it, but I'm sure it is. Wherever it is in the
17 report, would it be easy to add just a parenthetical or
18 something showing the percent of the eligible schools that
19 applied?

20 MR. BARTRIDGE: Certainly. I can have a number
21 participating versus the total number.

22 CHAIR GORDON: That would be great.

23 MR. BARTRIDGE: Sure.

24 CHAIR GORDON: Thank you. All right, that was my
25 only question.

1 Great, so it sounds like if we were to have the
2 ideal motion on this it would be to approve with the
3 amendment of adding a column on the SIR by category to the
4 chart on page 19. And adding information about the percent
5 of eligible schools by tier to the chart on -- where is it
6 in the report?

7 MR. HOLLAND: If it's not, it will.

8 CHAIR GORDON: Okay, so to add this chart to the
9 report and to add the number on percentages.

10 BOARD MEMBER MARTINEZ: So moved.

11 CHAIR GORDON: Oh, great.

12 BOARD MEMBER ODBERT: Second.

13 CHAIR GORDON: All right. Perfect. All right,
14 let's have a vote on, again approving the report with those
15 two amendments. Can we do a roll call, Jim?

16 MR. BARTRIDGE: Okay. Chair Gordon?

17 CHAIR GORDON: Yes.

18 MR. BARTRIDGE: Heather Rosenberg?

19 BOARD MEMBER ROSENBERG: Yes.

20 MR. BARTRIDGE: Barbara Lloyd?

21 BOARD MEMBER LLOYD: Yes.

22 MR. BARTRIDGE: Chelina?

23 BOARD MEMBER ODBERT: Yes.

24 MR. BARTRIDGE: Randall?

25 BOARD MEMBER MARTINEZ: Yes.

1 MR. BARTRIDGE: And David?

2 BOARD MEMBER DIAS: Yes.

3 MR. BARTRIDGE: And Mark?

4 VICE CHAIR GOLD: Yes.

5 CHAIR GORDON: Great. And to the folks from CEC
6 I just -- we say this every year, but always just thrilled
7 to work with you on this. I know it's a huge amount of
8 work for your agency, as it is for all the agencies. You
9 guys have the bulk of this work. And we've obviously
10 learned a lot from three years of doing this report
11 together, because this is probably the easiest approval
12 we've ever had, so nice job. Thank you so much.

13 So we are going to turn to Carlos from the
14 community college system with a report on the funds that go
15 to that critical part of the infrastructure here. And it's
16 nice to see you, Carlos.

17 MR. MONTOYA: All right. Thank you, Members of
18 the Board. I'm Carlos Montoya from the California Community
19 College Chancellor's Office. I'm going to go briefly over
20 the Proposition 39 Report for Year 4 for us. And so with
21 that I do want to just start off by saying that our system
22 continues to demonstrate a level of success and engagement
23 with all of our districts, as well as all of the IOUs and
24 our partners, including NAM who is our technical consultant
25 on the implementation of this program.

1 And so with that our report this year reflects
2 Year 4 of our program, which is the fiscal year 2016-'17.
3 During this period, we actually received \$49.2 million that
4 has been distributed across both our facility projects as
5 well as our Workforce and Economic Development Division.
6 And so with it you can see the allocation percentages
7 between the two of 12.8 percent for workforce and 87.2
8 percent for our actual construction projects that goes
9 directly to each of the districts allocated on an FTEs
10 basis.

11 So with that, during the '16-'17 fiscal year, the
12 funding resulted in a total of 578 projects, 123 of those
13 have actually been completed and closed out, 455 are still
14 in progress.

15 And of those projects that have actually been
16 completed and closed out they represent 38 of our 72
17 districts, 17.5 million in total project costs representing
18 8.8 million in kilowatt hours of savings, 251,000 in therm
19 savings as well for 1.4 million in annual energy cost
20 savings.

21 In addition, we also calculate out the workforce
22 and economic component of that. So those projects
23 represent 97.7 direct job years in full-time equivalent,
24 2.7 training job years, as well as 203,000 direct job
25 hours.

1 Now, for the workforce component we're actually
2 reporting Year 3 of the data. I believe one of the
3 challenges on the workforce side is we've had some turnover
4 at the local level. And so we're actually going to be
5 submitting an addendum with some updated information to our
6 report, which I'll speak to a little bit later.

7 Now, similar to the previous report from the CEC,
8 you'll notice a similar trend in how our projects break
9 down over the various categories. Again, this is in part
10 by our districts following the loading order and looking
11 for some high savings to investment ratio projects. So
12 what you'll see if 51 percent of our projects for the
13 closed out projects represent lighting type projects, 27
14 percent being HVAC. And then controls, MBCx/RCx and self-
15 generation representing progressively lower and lower
16 amounts.

17 Those projects also take a little longer to
18 implement as well. So as our districts look to try to work
19 with each individual year of Prop 39, they're constantly
20 looking at this as a consecutive one year programs as
21 opposed to one lump sum dollar amount. And so this is kind
22 of how they've been able to implement this so far pretty
23 successfully.

24 Now, for our projects that are still in progress,
25 the 455 projects, 69 districts are represented there.

1 There's \$144 million in total project costs showing that
2 the districts themselves are also pitching in to complete
3 these projects, beyond just the Prop 39 allocation amount.
4 Those projects represent 59 million in kilowatt hour
5 savings, 11,295 kilowatt savings and then a million in
6 therm savings. Annual energy cost savings are \$8.9
7 million. And then we can see the FTEs in terms of direct
8 job years for our apprenticeship program are 751 with the
9 training job years being 20 million or 20.85.

10 Now, the Workforce Development Program had
11 received 12.8 percent of the \$49 million, so that's 6.2
12 million. And their focus is creating and improving
13 curriculum, providing professional development for faculty
14 and support for regional collaboration, as well as
15 developing partnerships and networks for continued student
16 and faculty success in energy savings.

17 And so with the 6.2 million they've been actually
18 able to generate more than 3.4 thousand students completing
19 degrees, certificates, or industry certificates in Year 3
20 breaking it down to 199 AA degrees, 580 certificates that
21 are in that 6 to 18 unit range, over 1,000 certificates
22 above 18 units and 1,600 industry apprenticeship
23 certificates in the energy efficiency realm.

24 And I believe with that I just want to say thank
25 you and I'm happy to answer any questions. The first one

1 I'm probably sure is to add the SIR column to that table.

2 (Laughter.)

3 CHAIR GORDON: Sure of that?

4 BOARD MEMBER LLOYD: You read our minds.

5 CHAIR GORDON: Exactly. Barbara was just waiting
6 to say that. I always have questions, but we'll let others
7 jump in first. Heather or Mark or Barbara?

8 BOARD MEMBER LLOYD: Carlos anticipated my
9 question.

10 CHAIR GORDON: Perfect. Just for Heather and
11 Barbara just because you're new to the Board, if it isn't
12 clear one big difference between the Community College
13 Program and the K-12 Program is that the community colleges
14 run their whole program centrally, through the Chancellor's
15 Office whereas the K-12 Program is run through individual
16 LEAs, so just so that you know that difference. They are
17 run differently.

18 Heather, did you have any questions.

19 BOARD MEMBER LLOYD: No. Just the one question -
20 - sorry I have a really echo-y -- is whether there is
21 budget or training or anything put into place as these
22 measures are getting for ongoing maintenance?

23 MR. MONTOYA: Yeah, we --

24 BOARD MEMBER LLOYD: Did you hear that?

25 MR. MONTOYA: Yeah. We have, as part of our --

1 well, short answer is I'm not 100 percent sure that we've
2 officially established anything. Well, we haven't
3 officially established anything through our Prop 39 Program
4 for maintenance. But our districts are constantly
5 evaluating scheduled maintenance type projects as part of
6 our -- what we get in the budget allocation each year.

7 And I know this year, as we look to -- since
8 there was no Prop 39 funding in what would be Year 6 of the
9 program, one of the things that we've asked is that with
10 our scheduled maintenance dollar allocation that we
11 normally get is that we consider or the Department of
12 Finance consider adding maybe an energy efficiency type
13 category, specifically. So that districts can take that
14 into consideration as they kind of move forward, both for
15 either some projects that maybe just didn't get done to
16 making sure that the projects and the investments that we
17 have made are continuously invested into, so.

18 BOARD MEMBER LLOYD: That's great. I mean the
19 biggest challenge I've seen on a lot of these projects is
20 they come in with really great ideas and engineers put them
21 in. And then no one how to use them, so they get shut off,
22 so as long as that's built in somewhere.

23 MR. MONTOYA: Yeah. And with our Workforce and
24 Economic Development Division one of the things that we've
25 actively been looking at, throughout the program, is trying

1 to -- as they've developed curriculum and enhanced some of
2 their apprenticeship programs, we've also been looking at
3 building operator training, as part of those
4 apprenticeship-type programs that we've looked at.

5 Right now, we're trying to discuss as part of the Year
6 4 and 5 dollar amount that they have, is there a way to
7 kind of expand that and train additional people? Because
8 that is a question that we get a lot and it's an ongoing
9 concern, which is especially if you start implementing a
10 lot of buildings and systems controls. That's a little
11 different to maintain. That requires a different level of
12 training than some of our staff currently, so we're trying
13 to look at that as well.

14 BOARD MEMBER LLOYD: Thank you.

15 CHAIR GORDON: You just said, Carlos, just I
16 wanted to clarify, you said something about Year 6 not
17 having funding? Theoretically, you do have 11 percent of
18 the funding from SB 110 if money is appropriated though,
19 correct?

20 MR. MONTOYA: Yes.

21 CHAIR GORDON: Okay. We just don't know how much
22 that is for.

23 MR. MONTOYA: Yeah. Right now, I don't think
24 there is anything being proposed for Prop 39, other than
25 those taking some of the left over K-12 component and

1 putting in the 75 million specifically in buses and then
2 the \$100 million in the loan program. I think the way that
3 SB 110 was written most of those are actually in the K-12
4 subcomponent, which we are separated out of that. So if
5 there's no new money allocated, which there isn't at this
6 point.

7 CHAIR GORDON: Meaning that the Governor's budget
8 doesn't have anything for this category. Is that what you
9 mean by that?

10 MR. MONTOYA: Correct. Yeah.

11 CHAIR GORDON: Yeah, so just FYI to everybody
12 there is nothing in the Governor's budget for the year
13 after this program ends at this moment.

14 MR. MONTOYA: Yeah. So for us, right now we're
15 currently working with Year 5. We're operating with Year 5
16 dollars trying to get all of that spent as the last year
17 essentially of the program.

18 CHAIR GORDON: Okay. Thank you. That's helpful
19 to know how you're planning. I ask you this every year, so
20 I have to do it again. Do you have any way to share any
21 placement data from the workforce program?

22 MR. MONTOYA: Part of that data is still, because
23 we're taking a very regional approach, it's a little harder
24 to get that done. And this year I think we were trying to
25 make that happen. And then with the turnover, a lot of

1 this money goes out kind of on a competitive basis through
2 some of our regional workforce investment boards and these
3 regional consortium partnerships, which is really great to
4 get a lot of people engaged, not necessarily the best for
5 sharing data. Our office is undergoing a lot of work in
6 this area to try to get systems in place, so we can
7 actually do the placement data. But it's still a little
8 early for some of that.

9 CHAIR GORDON: Well this goes, just as we're all
10 looking toward so next year's report to the Legislature
11 will be the last report to the Legislature of this first
12 set of programs, of the first five years of the program.
13 And to the extent possible this is sort of a blanket
14 comment to you and CEC that we can -- or you and the
15 Workforce Board, I guess, to the extent that we can find
16 out anything about placement that'll be really useful,
17 because it will be able to make the case that this is
18 actually leading to jobs out in the world. So thank you.

19 MR. MONTOYA: Sounds good.

20 CHAIR GORDON: So what I have -- any other
21 questions in the room, Chelina?

22 BOARD MEMBER ODBERT: Yeah. I'm wondering if
23 it's possible and if the rest of the Board thinks it would
24 be useful to include some sort of a map of geographic
25 distribution for the work here?

1 MR. MONTOYA: Oh yeah. We should be able to get
2 that for you. Yes.

3 BOARD MEMBER ODBERT: Okay.

4 CHAIR GORDON: That's a great question.

5 MR. MONTOYA: At a district level, correct?

6 BOARD MEMBER ODBERT: Yes.

7 MR. MONTOYA: Yeah. We should be able to get
8 that for you.

9 CHAIR GORDON: That is a great point. Thank you.

10 And I was going to ask about savings by campus,
11 but it's in here, so thank you for already putting that in
12 here. But that is great, any more regional granularity we
13 can get the better.

14 MR. MONTOYA: Okay.

15 CHAIR GORDON: Other questions in the room or
16 additions?

17 So what I have as two amendments here, again with
18 a goal for a motion to accept this report as input to our
19 report, with amendments. The two that I have are adding
20 the SIR column again, to the list of measures and then
21 including the map with geographic participation.

22 Can I get a motion with those two amendments?

23 BOARD MEMBER MARTINEZ: So moved.

24 BOARD MEMBER DIAS: Second.

25 CHAIR GORDON: Roll?

1 MR. BARTRIDGE: Chair Gordon?

2 CHAIR GORDON: Yes.

3 MR. BARTRIDGE: Heather Rosenberg?

4 BOARD MEMBER ROSENBERG: Yes.

5 MR. BARTRIDGE: Barbara Lloyd?

6 BOARD MEMBER LLOYD: Yes.

7 MR. BARTRIDGE: Chelina?

8 BOARD MEMBER ODBERT: Yes.

9 MR. BARTRIDGE: Randall?

10 BOARD MEMBER MARTINEZ: Yes.

11 MR. BARTRIDGE: David?

12 BOARD MEMBER DIAS: Yes.

13 MR. BARTRIDGE: And Mark Gold?

14 VICE CHAIR GOLD: Yes.

15 CHAIR GORDON: Fantastic. Thank you everybody.

16 This is -- so going through (indiscernible) here.

17 Bill, you've been so patient. Bill McNamara from the
18 California Conservation Corps next up.

19 MR. MCNAMARA: First of all, thank you again for
20 inviting us to speak today, great to see you all again here
21 in the room. And those of you I can't see on the phone,
22 again greetings to you all.

23 So the California Conservation Corps, this report
24 is relatively brief. I won't say it's too brief, because
25 it's about 17 or 18 slides. But I'm only going to hit on

1 some highlights from each one. The California Conservation
2 Corps itself is pretty much aligned with all of the goals
3 of Proposition 39 from the standpoint of creating job
4 opportunities within the energy industry and elsewhere in
5 associated industries. As well as conserving energy,
6 reducing greenhouse gas emissions and making direct
7 contributions in partnerships with a variety of energy
8 efficiency and renewable energy companies throughout the
9 state, all of which are in direct service to K-12 LEAs
10 throughout the state.

11 So the CCC, just some background, some of you
12 will have seen this before. The CCC itself has 26
13 operating centers throughout the State of California, of
14 which 4 of them are designated as energy centers. And
15 those are located in Sacramento, in Norwalk, California and
16 Vista, California and San Jose. This is during the time
17 period of 2016 to -- actually the calendar year of 2016-
18 2017. This report is through the end of December in 2017,
19 so it's more current than would be if it ended in the
20 fiscal year. And that's also consistent with the report
21 that was generated for 2016 as well.

22 Again, we're focused on energy training programs
23 for young adults that are considered to be work-learned
24 programs, all partnership based. And focused on making
25 sure that the kinds of work that we train these young

1 adults in California to perform in the energy industry, are
2 energy industry standard approaches. And so from that
3 standpoint, we selected two main categories of work or
4 actually three: two direct and one indirect.

5 And the two direct ones are to do energy
6 opportunity surveys, which are ASHRAE compliant energy
7 audits at Level 2 and also to do energy efficiency retrofit
8 work, and focusing on lighting initially, and moving into
9 some other categories, including HVAC; and also renewable
10 energy. And the third category is educational programs,
11 which actually has quite a range of engagement, which I'll
12 show you shortly.

13 From a funding standpoint -- pardon me while I
14 put my glasses on here -- funding standpoint, in fiscal
15 year 2017-2018, we received an allocation of 5.8 million.
16 And you can see on this particular chart all the
17 allocations from the beginning of the program to date. But
18 the bottom line in this particular slide is simply that our
19 funding is meant to create the programs themselves and then
20 actually implement them on behalf of the LEAs.

21 So for in many cases, for example, our energy
22 efficiency retrofit work, has an actually a cost offset to
23 what the LEAs may have spent otherwise -- meaning that we
24 paid for all of the energy efficiency retrofit work that we
25 do through our allocation, which therefore frees up

1 additional funding for the LEAs that actually make use of
2 these services to be used for other purposes. So it's an
3 offset to what would have otherwise have been a cost for
4 that installation of those lighting retrofits.

5 We're focused on again, three main areas: energy
6 opportunity surveys, which are ASHRAE compliant Level 2
7 audits; retrofit projects and then education. And we don't
8 actually have a map, but I can certainly get one for you of
9 the actual distribution, heard the last two requests. But
10 we do have a map here of all the distribution of LEAs
11 throughout the state.

12 So one of the things that was done, and this
13 actually occurred in 2016, was in addition to doing the
14 energy audits or which we call energy opportunity surveys,
15 we actually also created some software, which is used in
16 the data collection process. And this is, in order to
17 capture the full range of activity that's required in the
18 ASHRAE compliant Level 2 audit. And also a platform that's
19 actually easily configurable, so that as we work with
20 various partners throughout the energy industry that we can
21 add or subtract different functionality to what is actually
22 measured and observed and recorded, both photographically
23 and also from a data perspective at each location that we
24 work at.

25 And our whole building -- our energy opportunity

1 surveys, are whole building approaches. And you can see
2 here lighting, control systems, internal plug loads,
3 integrated energy management systems, fenestration, O&M
4 best practices. So it's really quite comprehensive, which
5 leads us to another aspect that I'll get to in a moment
6 about the value of the data itself and the size of this
7 data that's been collected.

8 So since the beginning of the program, actually
9 in 2017 we have a total of three of our crews, which are
10 divided into both energy opportunity surveys being three
11 crews, and seven of our crews performing energy efficiency
12 retrofits. And that particular funding actually is
13 actually used to fund a total of 100 corps members. And a
14 number of staff associated with each of the corps members,
15 in order to go out and actually implement these things in
16 this particular work.

17 So you can see that from a program to date
18 perspective, we have actually serviced 439 LEAs. And we
19 have performed from a survey perspective, about 1,429 sites
20 of which we've completed, meaning there's still things in
21 progress, 1,327 energy audits for LEAs. And each audit
22 represents an entire school or multiples of schools. So
23 the energy surveys completed again from a building
24 perspective it's 13,822 buildings and about 79 million
25 square feet of conditioned space.

1 And again, these surveys are very comprehensive.
2 And so the data that's associated with all of those
3 facilities that have been audited represent a very
4 substantial sample of the entire state of California from a
5 school system perspective. It's about 20 percent.

6 In terms of distribution of that particular work
7 from an ADA perspective, 5,000 and above, it's about 20
8 percent for 81; 5,000 and below it's about 80 percent,
9 334. And in terms of over 50 percent free and reduced
10 price meals, it's about 64 percent.

11 I have mentioned about the value of the data
12 itself, so one of the constructs that we were working on --
13 or at least from a project perspective from the beginning -
14 - was to make sure that we captured this broad range of
15 data and made it available first of all to the actual LEAs
16 that requested the service; and secondly also made it
17 available to partners of their choice and also of ours, in
18 terms of the provision of the data digitally.

19 And the collective of all that data represents a
20 very substantial body of information about all the schools
21 at a great level of detail. Much larger, in terms of its
22 scope and capacity than what the LEAs have actually done
23 with that information to date. So that information is
24 actually representative and very useful for the LEAs from
25 the standpoint of a physical inventory of their particular

1 operational facilities and many other aspects that they are
2 finding to be very useful from an operations O&M
3 perspective.

4 In terms of lighting and controls retrofits, we
5 chose again to start with lighting. And so again we've
6 done a total of 93 projects. The actual retrofit project
7 didn't start until about the middle or towards late of
8 2015. And during that time we've done 93 projects and
9 again, a total of 124,000 lighting retrofits and about
10 8,500 of the controls for those lighting retrofits.

11 And again an estimation for the KWH reduction on
12 the conservative side for all of those is about 7.599
13 million kWh. And we used the simple calculation for the
14 estimated reduction of greenhouse gas emissions on the CO2
15 side, which is about 1.8 thousand metric tons.

16 Distribution again over 5,000 ADA, about 39 percent, under
17 5,000 ADA, 61 percent of all the services delivered and
18 from an FRPM perspective, 54 percent.

19 And one of the things that I wanted to point out
20 here as we go along is that the California Conservation
21 Corps actually, as a workforce development program the
22 Corps members, who are young adults, between 18 and 25,
23 sign up for a period of a year. They can stay up to three
24 years, but the net effect is we have an essentially a 100
25 FTE equivalent for Corps members. And that population goes

1 up and down with some great frequency. And we've noted in
2 the last two years, that the frequency of the population
3 getting shorter in terms of the duration, has been getting
4 shorter in terms of duration, but from a very positive
5 perspective, because the Corps members have been hired away
6 into the energy industry. And I've got some data on that
7 to show you at the end.

8 This chart is just showing basically another
9 reiteration of the actual effects. These are cumulative
10 effects of the work that we've performed so far. And
11 again, in the red corner up here the annual kWh savings at
12 7.599 million kWh. Estimated cost savings, one little bit
13 over a million dollars per year and the greenhouse gas
14 reduction about 1.807 metric tons. This is, of course only
15 through the end of 2017. So there's still another, from
16 this date of this report another six months of funded work
17 that we'll be performing until the end of the fiscal year,
18 '17-'18.

19 The actual development of the program itself and
20 again being a work learned and workforce development
21 program, there are many different aspects. Everything from
22 recruitment of Corps members from every part of the State
23 of California to basic training; Corps member training,
24 which is the COMET training; the CORE training; to working
25 with partners for online university educational component

1 parts, which we use.

2 We work with Schneider Electric and their energy
3 university for online. This is work, the training that
4 Corps members go through before they actually enter the
5 classroom and laboratory training. And then the online
6 that leads to the actual in classroom. And we work in the
7 north with the community college system, with Sierra
8 College. And in the south with Cerritos College, which is
9 an addition since last year's report.

10 And then all of those Corps members are then
11 deployed out into the field, professionally supervised.
12 And the education that they receive is an unbroken
13 continuum meaning the actual classroom training leads to
14 lab training, which leads to in-field on-the-job training.
15 And constant measurement of that particular performance and
16 evaluation to help build strong work ethics and also
17 produce what we think is a very marketable set of skills
18 within the energy industry, which has been borne out pretty
19 substantially by the numbers of Corps members that are
20 being hired into the energy industry.

21 From a training perspective, you can see that in
22 each year, you'll notice the graph on the left side with
23 the green bars there. So in the very first year there were
24 172 corps members that we trained up during that period of
25 time to be both for energy opportunity surveys and

1 retrofits. And that number steadily increased until 2015.
2 At that point in time, there were a lot of Corps members. A
3 very large number of those Corps members were extending
4 durations beyond a year. And then they cycled out and new
5 Corps members came in, so that's why there's a dip in 2016.

6 In 2017, there was a pretty substantial increase
7 as the 100 Corps member FTE refilled a couple of times.
8 And more Corps members came in to be trained and move out
9 into the energy industry and others.

10 The same is true on the staff side with a large
11 bump, although the staff tends to be of course a longer
12 duration. But within the CCC there are many categories of
13 functional work and so some of those supervisors may move
14 from center to another or one area of work to another.

15 From an educational standpoint, we've trained a
16 total of 708 individual CCC corps members and 48 CCC staff
17 to perform energy opportunity surveys. And 408 of those
18 corps members have been trained and 24 of the staff have
19 been trained to do LED in particular, but mostly lighting
20 retrofit installations. So there are a very substantial
21 number of folks that we have trained, both on the Corps
22 member side and on the staff side.

23 On the educational side, we do individual
24 presentations for LEAs and also in more public sectors in
25 meetings, get-togethers by a variety of folks in the

1 industry and especially in the K-12 educational world.

2 Then this particular example is one that started
3 in 2016 and has recently concluded. And this is with the
4 L.A. Unified School District and this was a program that
5 actually brought together several parties. First was the
6 L.A. Unified itself, its school system itself, where they
7 would select high school students to be trained to do
8 energy opportunity surveys. That we also worked with the
9 local conservation corps in Los Angeles, which is called
10 the Los Angeles Conservation Corps. And they worked
11 directly. We trained all of the folks from the LACC and
12 also all of the students that joined the program from L.A.
13 Unified.

14 And we then conducted additional classes for
15 them. They then went out into the field and worked on a
16 co-joined basis, so that the high school students would
17 work within -- trained to do audits, would work actually
18 within the school system and it's many schools. And to
19 perform these ASHRAE Level 2 compliant energy opportunity
20 surveys using our technology: our tablet technology, our
21 software technology, our processes, our approaches,
22 etcetera.

23 And then to produce the data set and work with a
24 third party entity that in this particular case was First
25 Fuel, to do actually something greater than a Level 2

1 ASHRAE compliant audit in a sense that it was a massively
2 data-informed version of what the no touch audit or
3 software-driven audit might actually have been otherwise.
4 And that created a pretty substantial result.

5 And in terms of a -- during the year 2017, this
6 particular set of data showing that in the beginning of
7 January 2017 we had a population -- out of the 100 FTE we
8 only had 53 of these positions are actually filled. And
9 this was happened to be one of the troughs of Corps members
10 that have been leaving and new Corps members coming in. So
11 you can see how that cycle, as a workforce development
12 program, oscillates back and forth over time.

13 In terms of program status and measured
14 employment, so the CCC itself doesn't have an official
15 mechanism that we can track Corps members in terms of what
16 they do after they leave the CCC. But we do have an
17 exiting process, an interview process. And according to
18 the self-reported aspects of that, so far there have been
19 61 energy corps members who have completed their tenure
20 successfully with the CCC and been hired directly into
21 energy industry companies.

22 We have 59 of the Energy Corps, Corps members,
23 that self-reported that they accepted employment offers,
24 but they didn't say with what particular companies. So we
25 think that these are probably associated to the energy

1 industry, but we're not saying that they are, because we
2 don't have that data.

3 And then there are 77 that did not self-report
4 their actual or intended employment status.

5 So we don't have a mechanism to track them beyond
6 that at present. But we do know both anecdotally and
7 otherwise -- these photos you see here on the bottom have
8 been many of our partners, Energy Corps partners -- who
9 have been so pleased with the result that they have hired
10 individuals and collective of individuals directly into
11 their companies.

12 And they also have put up effectively
13 scholarships on their own that help to support who they
14 determine to be perhaps a star performer working on a
15 project. And this is an example, these two particular
16 photographs are examples of a contractor that they work co-
17 jointly with who were so pleased with the result that they
18 were able to provide additional educational incentives in
19 the form of scholarships.

20 And so it's been I think a very successful
21 implementation of all the different phases of the Prop 39
22 program in terms of the manifest condition of those things.
23 And that's it for the presentation. I'll be happy to
24 answer any questions or if you have any requests I'd be
25 glad to try to fulfill them.

1 CHAIR GORDON: Great. Thank you. That was
2 really comprehensive. The only question I had on the
3 placement, which is not something to add to your report,
4 it's just curiosity whether you have any alumni network or
5 anything. Do you do anything like that?

6 MR. MCNAMARA: Well, we do have two forms of
7 that. One is the actually CCC Foundation, which does
8 maintain that kind of -- or tries to maintain that sort of
9 information. It is not conclusive, you know, like in the
10 sense of all the Corps members who leave actually would be
11 participants in it. But there is more data and we
12 certainly could do more as well.

13 The CCC itself has developed strong relationships
14 with many, many of the Corps members. And those Corps
15 members tend to keep in touch with us to let us know that
16 their doing, but we don't have a formalized mechanism that
17 would be -- would not only provide that information, but
18 would also give assurance that that information was
19 correct. Of the ones that I'm reporting here, we do have
20 confirmation of those.

21 CHAIR GORDON: Thank you. That's helpful.

22 Questions from you guys? Chelina, anything?

23 BOARD MEMBER ODBERT: I just have a really minor
24 one and it's just a clarification for my own understanding.
25 On the table, it's on page 8 in the report you say total

1 number of lighting retrofits and it's 124,000. Is that
2 number representative of like one unit of lighting?

3 MR. MCNAMARA: So those would be actual
4 retrofitted lighting fixtures.

5 BOARD MEMBER ODBERT: Yeah, so 124 fixtures?

6 MR. MCNAMARA: Yeah, those are units. I'm sorry.

7 Now there is something -- that's a great question
8 though for another reason, which is so part of the push by
9 LEAs toward the end of the program that, you know, we were
10 commenting earlier in other presentations about the fact
11 that there is more uptick now, especially smaller LEAs?

12 Well one of the things that's happened is that in
13 the beginning, in 2016 we did a lot more retrofits that
14 were entire lighting fixture exchanges. And so now and
15 during this time to try to -- not by our choice, but by the
16 LEAs choice -- there's an awful lot of bulb replacement or
17 like LEDs that are agnostic to whether they're using a
18 ballast or not, to try to get as much of those savings at
19 the lowest cost possible on a broader scale.

20 So we've found that there's less focus on the
21 control side. We noticed that in 2017, we did zero on the
22 controls, lighting controls retrofits. That was a choice
23 of the LEAs. In other words, they wanted to focus on
24 actual replacement of bulbs and fixtures and that sort of
25 thing, as opposed to on the control side. So I would

1 consider them to be somewhat less comprehensive approaches,
2 certainly not achieving the same levels of energy
3 efficiency as had been achieved on an individual basis
4 before that.

5 BOARD MEMBER ODBERT: Thank you.

6 MR. MCNAMARA: You're welcome.

7 CHAIR GORDON: On the phone any questions from
8 Barbara or Heather or Mark?

9 BOARD MEMBER LLOYD: Not for me.

10 MR. MCNAMARA: Very good. Well thank you very
11 much.

12 BOARD MEMBER ROSENBERG: Sorry. I actually was
13 on mute by accident.

14 CHAIR GORDON: No worries. Go ahead.

15 BOARD MEMBER ROSENBERG: Is the information
16 available regarding the demographic dispersion of these
17 participants in this program, geographic and/or any other
18 sort of relevant data that might be fact?

19 MR. MCNAMARA: Certainly, we have records of, and
20 that can be produced in whatever form may be desirable, of
21 all the LEAs that have requested our service, the ones
22 we've serviced to date, and where all of the different
23 projects were in terms of surveys performed or retrofits
24 performed.

25 CHAIR GORDON: I think you --

1 BOARD MEMBER ROSENBERG: I was actually speaking
2 about the CCC program interns, the Corps members.

3 MR. MCNAMARA: Oh, you mean, I'm sorry geographic
4 or?

5 BOARD MEMBER ROSENBERG: Yeah, where they are
6 located geographically and any other data.

7 MR. MCNAMARA: Sure, I can actually -- so I would
8 refer to -- and it's also in the report, I don't have the
9 thing right in front of me. But so there's a geographic,
10 there's a map in there that shows where all of the Corps
11 members are based out of. If you are referring to where
12 they work from it's on page 3 of the annual report. Thank
13 you.

14 BOARD MEMBER ROSENBERG: Okay. I'll go back up
15 there. I had passed it somehow.

16 MR. MCNAMARA: That's all right. It shows the
17 State of California and some little lightning bolts there
18 that show --

19 BOARD MEMBER ROSENBERG: Yes.

20 MR. MCNAMARA: -- perhaps not that creative on
21 our part, but nevertheless that show where the energy
22 centers are all located. The only one is that Fresno
23 Center is a co-joined CCC functional, so it's both natural
24 resource work and energy work. So that's where they all
25 operate from.

1 BOARD MEMBER ROSENBERG: But there's no
2 statistical data that corresponds to those locations as of
3 now in your report; is that right?

4 MR. MCNAMARA: No. I haven't provided the
5 granularity of how many Corps members in each one of the
6 centers, but I certainly can do that if you would like to
7 see that.

8 VICE CHAIR GOLD: But you were more interested
9 sort of in gender and diversity and those sorts of issues
10 as well, not just a raw number, right?

11 BOARD MEMBER ROSENBERG: I mean, I do have an
12 interest in that. I'm not trying to skew the focus of the
13 report away from its effectiveness. I'm just sort of
14 curious for which population is it being most effective,
15 whether it be geographic or gender or something like racial
16 background or whatever.

17 MR. MCNAMARA: Certainly we can show the plot,
18 geographic plot, of where all of these project sites have
19 been located. We speak to that in the aggregate, in the
20 sense that in each --

21 BOARD MEMBER ROSENBERG: I'm not (indiscernible)
22 --

23 CHAIR GORDON: She's asking about the Corps
24 members themselves, so.

25 BOARD MEMBER ROSENBERG: I'm talking about the

1 individual Corps members who benefit from going through
2 these programs.

3 MR. MCNAMARA: Okay. So like essentially where
4 did they all actually come from?

5 CHAIR GORDON: More demographics, I think is what
6 she's talking about too.

7 BOARD MEMBER ROSENBERG: Corps demographics, you
8 know, age range, gender, cultural background, geography,
9 anything that you guys already ask for reporting purposes.
10 I'm not asking for something to be newly created. I'm just
11 curious as to whether the information is available. And I
12 say this in part, because there is historically a
13 difficulty reaching (indiscernible) with this kind of
14 technical training.

15 MR. MCNAMARA: Understood, so I will provide that
16 demographic data and provide it to you folks. I can say
17 that in general the CCC has a long history of drawing its
18 Corps members, recruiting its Corps members and hiring them
19 from everyplace in the state. And there is a larger number
20 of them coming from variously defined economically
21 disadvantaged communities. And the work itself performed
22 also reflects the same thing. But I'd be happy to provide
23 that including other demographic factors like gender and
24 those sorts of things. Age range is simple, because it's
25 all -- it's 18 to 25.

1 BOARD MEMBER ROSENBERG: That's right.

2 MR. MCNAMARA: That's who CCC actually works
3 with, but we do have more detail on that as well.

4 CHAIR GORDON: That's great. So what I'm hearing
5 as addition -- and this is for the purposes again of a
6 motion -- are you talked earlier, Bill, about a map of
7 distribution of projects and also demographic data on the
8 Corps members themselves.

9 So does that make sense to everybody as the two?

10 BOARD MEMBER ROSENBERG: I strongly support that.

11 CHAIR GORDON: Great.

12 So with those additions, can we get a motion?
13 Does someone on the phone want to make a motion, just
14 because you haven't had a chance yet?

15 BOARD MEMBER ROSENBERG: Sure, I'll motion.

16 CHAIR GORDON: Do we have a second?

17 BOARD MEMBER MARTINEZ: Second.

18 CHAIR GORDON: Great roll call

19 MR. BARTRIDGE: We'll start from the bottom this
20 time. Mark Gold, please?

21 BOARD MEMBER GOLD: Yes.

22 MR. BARTRIDGE: David?

23 BOARD MEMBER DIAS: Yes.

24 MR. BARTRIDGE: Randall?

25 BOARD MEMBER MARTINEZ: Yes.

1 MR. BARTRIDGE: Chelina?

2 BOARD MEMBER ODBERT: Yes.

3 MR. BARTRIDGE: Barbara?

4 BOARD MEMBER LLOYD: Yes.

5 MR. BARTRIDGE: Heather?

6 BOARD MEMBER ROSENBERG: Yes.

7 MR. BARTRIDGE: And Chair Gordon?

8 CHAIR GORDON: Yes.

9 MR. BARTRIDGE: Thank you.

10 CHAIR GORDON: Great, thank you.

11 Moving on to Sarah White, who I see in the back
12 of the room there, and Sarah gets to present on both Items
13 8 and 9. So you get to be up here for some time.

14 MS. WHITE: But brief.

15 CHAIR GORDON: And Sarah's from the California
16 Workforce Development Board for those who don't know her.

17 BOARD MEMBER MARTINEZ: Did you say she's
18 reporting on 8 and 9?

19 CHAIR GORDON: I think that's right. Yeah, it's
20 the two Workforce Development Board items.

21 BOARD MEMBER MARTINEZ: I've got it.

22 (Colloquy to set up presentation.)

23 MS. WHITE: Okay. Madam Chair, Board Members,
24 thanks for inviting me. Delighted to be back again for
25 another round of reporting on Prop 39 Jobs and Training

1 Outcomes from the California Workforce Development Board.

2 So the first thing I'm going to talk about is the
3 money that we get, \$3 million a year, to run a pre-
4 apprenticeship training program. And what this is, is
5 these have been incredibly successful. We have included
6 our latest update report and in them there are details on
7 each one of the projects, so you can look at those more
8 specifically as we go through. But I'll just give you a
9 brief overview here and update the performance numbers.

10 So these pre-apprenticeship programs I should say
11 are designed specifically for underserved communities: at-
12 risk youth, women, low-income, ex-offenders, lots of folks
13 with barriers to employment. That's the whole point of
14 doing a pre-apprenticeship program is to provide pathways
15 into middle class careers in the building trades for folks
16 who have traditionally been excluded from opportunities.
17 So that's the purpose of this program and to really provide
18 access to those high-quality careers and family-supporting
19 jobs. And we use -- and I'll say more about this -- we use
20 the Multi-Craft Core Curriculum as really the gateway to
21 register apprenticeship in many trades involved in the
22 energy efficiency work, depending on local demand and
23 individual skill and interests.

24 So we have 11 projects in two cohorts. I'll give
25 you some details shortly. We give you details in the

1 report of our 11 training and implementation grants. We
2 also have had over the years a number of development
3 grants, so folks figuring out how and if they should be
4 setting up these programs. And also we do a fair amount of
5 technical assistance of various sorts including building a
6 community of practice for all of the partners and the
7 grantees in this.

8 I think the big story, I think that you want to
9 know when we talk about placement, is that we placed over
10 1,000 individuals, which in terms of pre-apprenticeship if
11 folks know anything about this is really sort of heroic,
12 right? And this is not the amount we recruited and
13 trained, because there are more of those. But to have
14 placed, we actually have placed more than 1,000
15 individuals. And I'll talk a little bit about more of
16 those outcomes, but that's number we're very, very excited
17 about.

18 And then speaking also our report is cumulative
19 through 2017, right? Sort of we didn't break it out year
20 by year, we're tracking over time. So I will talk about
21 those numbers.

22 Another thing to say that we're excited about is
23 that this has been a model for other programs. So we had
24 money from the state last year, \$3 million to invest in
25 pre-apprenticeships for ex-offenders and we plugged that

1 right into these programs. We said you know, ex-offenders
2 are a very tough population to serve, pre-apprenticeship in
3 the trades very hard to do well. We know how to do both,
4 so we actually lifted up four of our Prop 39 projects to
5 get additional funding to specifically target justice-
6 involved populations. And so that's underway now, so we're
7 really excited that this is leveraging other money and
8 expanding.

9 And we also, starting a year from now we have \$25
10 million of FD1 funding to invest in construction trades
11 pre-apprenticeship. And we are using this model to do
12 that, so this is really continuing as really the model for
13 getting folks opportunities in the building trades. So
14 we're really tremendously excited about some of the
15 interest and the work that is moving ahead based on these
16 pilots. Even though they're a tiny little piece of the
17 overall Prop 39 investments, they have been reaping a lot
18 so we're very pleased about that.

19 I did a few slides, just outlining the report.
20 So we expect about 10.8 million through this year in clean
21 energy job creation funds. And as I mentioned earlier
22 these are for training implementation partnerships. Also,
23 the development grants and the technical assistance and
24 capacity building work.

25 The goals have been straightforward, they remain

1 the same, is to deliver clean energy skills to
2 disadvantaged job seekers, to create structured pathways
3 into apprenticeship and to build the energy efficiency
4 workforce. I think that it's important to say, and we say
5 this all the time, but for folks who aren't as familiar
6 with the construction trades, that equity and access to
7 good jobs for all kind of clean energy infrastructure
8 investments is the goal. And it works in the other way
9 too, it helps to diversify the construction trades
10 workforce. And at the same time provide opportunities for
11 folks who have not had them before.

12 And pre-apprenticeship, I just want to reinforce
13 again to say that it is why pre-apprenticeship? Because
14 apprenticeship is a really high bar, right? Not just
15 familiarity with tools, but a really high bar in math,
16 reading, all kinds of skills. And so it's found that folks
17 need extra training to actually qualify and get into
18 apprenticeship.

19 And also another thing that this program does and
20 pre-apprenticeship does is it lets people know how to get
21 into apprenticeships, because this for many years was a
22 well-kept secret, right? You either know someone or -- so
23 this way is an introduction to each of the trades and how
24 they hire and how you might get involved in
25 apprenticeships. So it really is building this

1 comprehensive pipeline to help folks get into what we know
2 is probably the best middle class career pathway for folks
3 who don't have a four-year degree. So that's the reason we
4 do pre-apprenticeship.

5 These are just -- I'm going to show you a couple
6 of lists we had. In our first cohort we have six regional
7 training partnerships that do this work. There's detail as
8 I mention on each in the report. This first cohort, I have
9 some separate numbers for them. They have been doing this
10 since the beginning, from 2014, so they are now in their
11 third year and very (indiscernible).

12 Our second cohort of five grantees, again spread
13 out regionally around the state, have just gotten started.
14 They just finished last fall, their first year of funding.
15 And so we have some great outcomes from them, but again
16 they're just starting. So there are pilots too, also to
17 show us like what works and what doesn't work. And, you
18 know, so we're tracking them separately, these five.
19 Actually, we have just funded a sixth for this year, which
20 is the North Central Counties Consortium, because they had
21 development grants. And they turned out to be a pretty
22 good partnership, so we're funding them as well.

23 So pre-apprenticeship training, we use the local
24 building trades councils and it's based on a nationally-
25 certified Multi-Craft Core Curriculum. If you have

1 questions I can tell you more about that, but this is a
2 core curriculum in which the building trades came together
3 nationally to decide, look there are dozens of trades,
4 right? But all of them have the same baseline of what you
5 might need to do. OSHA standards, right? Tool handling,
6 energy efficiency training, what's different about those
7 skills, labor history. All the kinds of things that all
8 the different trades, you know, from carpenters to sheet
9 metal workers, to electricians. All came together and
10 said, "Okay. We're not finding qualified candidates, but
11 if they all were going to come in, here's all the things we
12 would like them to know to be successful apprentices."

13 So the idea was that instead of having an
14 individual try and decide without knowing anything about
15 construction trades say, "I want to be an iron worker. I'm
16 afraid of heights, right?" I mean, to decide each one you
17 might not know, so it's also very expensive. Apprentices
18 are very expensive on the employer's side and the Joint
19 Apprenticeship Training Council side as well in that, you
20 know, if the apprenticeship washes out, several, up to
21 \$20,000 has already been spent on their training, right?
22 So this is the point of helping people succeed in these
23 pathways and helping people open more apprenticeships.

24 So the pre-apprenticeship training projects was
25 designed to help people success through this Multi-Craft

1 Core Curriculum, which also as I mentioned in part of these
2 pre-apprenticeship programs is to introduce both to the
3 different trades. So you show up on one day and you're
4 learning the math that you need and the reading that you
5 need and the blue print reading that you need. And you're
6 also going to learn and get to meet with somebody from each
7 of the trades in light of this is what carpenters do. This
8 is what sheet metal does. This is what an electrician
9 does, so that you have an idea of what your interests are
10 and you can tie into that. And then here's how you get in
11 and here's the special skills that you need. So it really
12 is giving folks an introduction to the trades.

13 And then in all of these there are obviously
14 related energy efficiency skills.

15 (Off mic colloquy re: audio.)

16 MS. WHITE: These pre-apprenticeship partnerships
17 are fascinating and hard and difficult beats. Because they
18 are not just -- it's not just a training program, right?
19 It is a partnership, so each partnership involves workforce
20 development boards, building trade councils, joint
21 apprenticeship training committees, community based
22 organizations, education and training providers. And our
23 partners, we some are led by unions, some are led by
24 Conservation Corps, some are led by workforce boards, some
25 are led by community colleges. But all of them have all of

1 these partners involved, because what's really hard about
2 doing this work is if you're going to work with underserved
3 populations you need to think not just about training and
4 getting to a credential.

5 But you need to think about how are you going to
6 recruit folks? What supportive services are you going to
7 give folks, so they can make it through rent? Do you need
8 a stipend? Because these are working people, you can't --
9 they can't afford to train and not work at the same time.
10 So are we providing them with tools? Are we providing them
11 with childcare, transportation, addiction counseling?
12 Many, many kinds of services that folks need in order to
13 make it through one of these programs, so that's why we
14 have so many different kinds of partners to even get people
15 successfully through.

16 And the goals though that we measure for these
17 programs are the attainment of an industry value
18 credential, which if you know anything about workforce
19 development is sort of the gold standard. It means that
20 you come out of some training with some kind of piece of
21 paper that says to employers all over the state -- not just
22 one and not just in one place -- "I learned this stuff.
23 I'm valuable. You can invest in me," right? That's what
24 an industry value credential is.

25 It's not just sort of like, "I went to a class

1 and I got this paper." And the employer says, "I have no
2 idea what you know." This says to everyone in the building
3 trades, "This is what I learned. This is what I know. You
4 can invest in me." So attaining an industry value
5 credential is extremely important. And the MC3 certificate
6 that folks get is the credential that's obtained here.

7 We also track placement as I mentioned. And we
8 count a variety of things, so placement in state certified
9 apprenticeship certainly, also placement and continuing
10 education. If somebody goes through this project and
11 decides that they want to continue and do an AA degree in
12 one of the things, that's great. We consider that a win as
13 well. And also, placement in construction and energy
14 efficiency employment, if you don't go immediately into an
15 apprenticeship, because there's not necessarily an easy
16 lineup between a cohort who finishes and an apprenticeship
17 slot opens up.

18 So what happens in the meantime? This is one of
19 the things that our partnerships have been really working
20 to crack. So often people will find jobs on a construction
21 site with a variety of employers and we count that as
22 successful too, if you're going out in the workplace. So
23 those are our metrics. And as I said this is where we have
24 over 1,000 individuals served.

25 To give you a little bit about the performance

1 snapshot here. I gave you the 1,000 as sort of an actual
2 body count, right? But we actually look at percentages in
3 the workforce field, because these are actually
4 tremendously high numbers. Even looking at anything over
5 50 percent is considered high, because you're working with
6 folks who have barriers to employment. Getting them into
7 and through training and placed is an expensive and time-
8 consuming endeavor. But what this shows us is that we talk
9 about how many people were enrolled. They said they were
10 going to enroll a certain amount of people, did they match
11 those targets? And that's a whole body of work. It's one
12 of the things that a partnership has to do, how do you
13 reach people? How do you get them in the door? That is not
14 an easy thing to do and it's sort of something that people
15 spend a lot of time figuring out.

16 Then the next thing is how many of them that came
17 in the door, actually finished training? And there's all
18 kinds of reasons that it's very hard to finishing training,
19 right? Especially because of some of the things I
20 mentioned: childcare, transportation, health care, a
21 variety of things. And then of those who completed
22 training, how many of those actually got placed? We care
23 about that, so we track all of those things and they're all
24 important metrics.

25 And what it does is we use these metrics not to

1 penalize anyone, these are pilot programs, but just figure
2 out where we need to do better. So for those organizations
3 that are not meeting their enrollment goals, well we're
4 going to need to do technical assistance to figure out how
5 you can do more outreach to get folks in your door.

6 For those who are getting people in, but they
7 don't finish training what's going on in your program that
8 people aren't finishing? What do we need to do there? And
9 maybe it's just something that we need to learn about the
10 nature of pre-apprenticeship. That it's not for everyone
11 and one reason you go through pre-apprenticeship is maybe
12 you find out that this work is not for you. And that's
13 okay.'

14 And then placement is the trickiest of all,
15 right? Because actually getting folks into jobs is
16 complicated. And as I mentioned, especially with these
17 programs, and this is one of the biggest lessons learned
18 from all these pilots, is that you might go through a
19 cohort. Think of this as a boot camp, a six-week training,
20 full-time training thing. You graduate. You get your
21 certificate, but each of the trades has a different hiring
22 schedule.

23 The great thing about apprenticeship as opposed
24 to other kinds of training is that you only get to
25 apprentice if you have a job. It's on-the-job training of

1 a sort. It's (indiscernible), right? You have classroom
2 training and you have on-the-job training, but you don't
3 get to be an apprentice unless there is a slot for you. So
4 it's not coordinated in any way that the industry works
5 that the day that these cohorts finish, there's an
6 apprenticeship waiting for any of them. They have to
7 compete. They have to wait before they decide which trade
8 they want to into. The trades may -- an individual may
9 open slots only once or twice a year. When do they give
10 the exam that you could qualify for being in an
11 apprenticeship? When do you do the interviews? So there's
12 a big gap between when you graduate and when you can
13 actually move into an apprenticeship.

14 And it also depends on the labor market demand of
15 the jobs out there. So this is one reason we are really
16 working with our programs to tie pre-apprenticeship
17 training to the demand side of the labor market. Because
18 we think that if you want to deliver equity to folks you
19 can't just train them. You have to figure out how they're
20 going to connect to jobs. And so really considering those
21 things is something that we do a lot of work on.

22 And I think this is our second cohort, slightly
23 lower numbers because they're just starting. And in some
24 cases we find for example, with some of our folks they just
25 finished a cohort, so those folks haven't even been placed

1 yet. So you don't have the high placement numbers. And
2 for some of them, they're just figuring out that, "Wow, I
3 actually have to have a relationship with the building
4 trades, because if I don't know the building trades there's
5 no way for me to connect to that demand and get folks in
6 the door to apprenticeship. So we just go out knocking on
7 employers doors by ourselves we're not going to figure that
8 out."

9 So a lot of these folks, these numbers are a
10 little lower, because you're seeing partnerships figure out
11 how to work together. And so we still think these are
12 encouraging numbers.

13 And I say the big takeaways, as I've mentioned
14 the active involvement with the building trades is
15 absolutely key to placing people in apprenticeships. You
16 can't just train people and then set them loose to go out
17 and figure out how to get into an apprenticeship
18 themselves. It doesn't work that way, so there's a lot of
19 follow-up work helping folks get connected to
20 apprenticeships.

21 The other thing I mentioned just now, that the
22 placement is not guaranteed. I mean, folks who think about
23 training, and it's a good thing and or want to invest in
24 training, see it like college or high school, all right?
25 But there's just a training program. They're just going to

1 go through and get out and get a job. But it doesn't work
2 like that, right? You come out and you get through and you
3 have the skills. But now you have to figure out how to get
4 into an apprenticeship and that takes time and connections.

5 And the last thing is that, as I mentioned, the
6 successful program is more than just a curriculum. So we
7 do use the Multi-Craft Core Curriculum, which we think is
8 great. But supportive services are really important and
9 that's why we have these complicated partnerships that we
10 set up, because you have to be able to -- we are writing
11 memorandums of understanding with housing departments, so
12 that people don't lose their subsidized housing while
13 they're going through it. And it's just so amazing
14 bringing in all the social service agencies and the
15 community based organizations to make that happen. So that
16 is I think one of the big lessons.

17 And okay, so of course I totally didn't look at
18 my notes and there's a bunch of other stuff I was going to
19 tell you. But I don't roll that way, so I'm happy to take
20 questions. (Laughter.)

21 CHAIR GORDON: Thank you, Sarah.

22 MS. WHITE: Yes.

23 CHAIR GORDON: This has been such a -- I just
24 want to say personally that the single most calls that I
25 get from other states about the Prop 13 -- god, no, 39 --

1 program is about this program. And actually just the other
2 day the Department of Economic Development of Oregon called
3 and asked about this, because they are looking at
4 incorporating something like it into something they're
5 working on. So it is a model for other states.

6 In the beginning it was this tiny little piece of
7 the Prop 39 budget and it's just been really, really
8 impressive what you guys have done with it, so kudos to you
9 and the Department. I know it's a -- you're doing it, it's
10 a labor of love. And you're not getting a lot of money to
11 do it that you're not spending on these guys. So it's
12 really impressive, so I just wanted to say that.

13 MS. WHITE: Can I add one thing?

14 CHAIR GORDON: Yeah.

15 MS. WHITE: I hate to interrupt. It was just
16 that I forgot to mention that we do have a best practice
17 report coming out. It should be sometime in the next
18 couple of months. We have a draft and we're really working
19 on it, which is really because of precisely other states
20 and other folks for sort of, "This is best practice in pre-
21 apprenticeship," right? A lot of people are trying to do
22 this around the country. Only a few places are doing it
23 really well and this is one of them. And so this is really
24 everything you need to know from like setting up a
25 partnership to how it works, to how you connect to the

1 demand side.

2 So everything that we've we are codifying and
3 putting into this accessible piece of work that will be
4 available to all of you, of course.

5 CHAIR GORDON: That's awesome. Thank you.

6 Questions for Sarah on this piece of her
7 presentation? I encourage everybody on the Board to look,
8 to read the stories that are in the report, because they
9 are very heart-warming. I don't know. They're great
10 stories and it's great to see faces put to this, so thank
11 you for doing that.

12 Poor Sarah has to stay up there, but first we
13 should vote on this report.

14 BOARD MEMBER MARTINEZ: I do have a question?

15 CHAIR GORDON: Yes, please go ahead.

16 BOARD MEMBER MARTINEZ: Okay. Sarah, as I think
17 about what I would call the ecosystem that's involved to
18 support the candidates as they go through the job training
19 program. And then ultimately hopefully get placed even
20 after completion of an apprenticeship program, actually get
21 placed. There are a lot of stakeholders involved and it
22 just sounds like a lot of legwork and I've got visions of
23 people writing down lots of things on pieces of paper. And
24 I'm just curious if there's any type of -- as I think about
25 best practices and lessons learned and I apply this to the

1 education space and the burgeoning education technology
2 industry, what technological tools are there or can there
3 be to support that ecosystem that in turn supports the
4 candidates? Or is there one?

5 I just imagine kind of like, I don't know a
6 Facebook if you will, that connects the candidate with the
7 ecosystem that supports them and keeps them in engaged
8 while they're in downtown. And then activates them when
9 there's a need or an opportunity. Or is this all just
10 elbow grease and legwork?

11 MS. WHITE: That's a great question. I mean, I
12 don't think there is an easy technological solution, but I
13 think we could work towards something that was more
14 coherent. And one of the challenges is the way the
15 construction industry itself works, right? And you're
16 talking about lots of locals and a lot of it is all based
17 on relationships, right? So it's sort of the relationship
18 between one of 16 local trades and one of perhaps 4 or 5
19 local community colleges. And who works together well
20 there and what that looks like and what the local
21 community-based organization is.

22 I think another way that it's useful too is if
23 there were a way to sort of get those systems we talked
24 about. And I think about this, it comes to mind, the data
25 question, right? Because just even tracking is difficult,

1 because all these partnerships use different data tracking
2 systems and different performance tracking systems, so even
3 trying to get coherent data out of it is a challenge.

4 But I hear what you're saying. I think one thing
5 that we are working for and we want to get closer to that.
6 I don't know what the answer is. I do know that we are
7 working towards -- one thing we're really working towards
8 is -- and we're planning this for our SB 1 investments
9 coming down slightly different, but large transit
10 investments as well as the road repair -- is thinking about
11 how to organize all of this work regionally from the demand
12 side. So that we go in and we know from project labor
13 agreements and others, like there are 20 projects going on
14 in Los Angeles.

15 Instead of funding a bunch of different workforce
16 partnerships to try and check in to all of that demand
17 side, there could be a single box perhaps or person at the
18 center that says, "Here's where all the demand is and we're
19 going to need to pull from how many programs. And here's
20 how many people we need." And that helps us also solve the
21 supply-demand problem, right? That we're not overtraining.

22 And one things that I worry about with the
23 success of this program is that of course we want more
24 money, right? But the thing is the Legislature and others
25 get very excited and start saying, "Let's build hundreds of

1 pre-apprenticeship programs." But then you're just going
2 to have stacks of people with a certificate that don't
3 actually have connections to jobs. So we want to really
4 make sure that we calibrate these programs to the demand
5 side. And that's another way where we're trying to bring
6 together a sort of unified regional approach in doing that.
7 And I think that will require some of this kind of how do
8 we streamline and standardize those conversations, will be
9 essential to that.

10 BOARD MEMBER MARTINEZ: One thing I can assure
11 you is that in spite of all the obstacles these folks have
12 to go through to be able to complete the program, is that
13 they likely have a smart phone.

14 MS. WHITE: Right, right.

15 BOARD MEMBER MARTINEZ: And there's got to be a
16 way to take advantage of that.

17 MS. WHITE: No, I think that's great. And there
18 has been some investment that go on exactly with the phone
19 based. I know there's a lot of remote learning and apps
20 that people are looking at how to do that. We haven't
21 thought about that for this, so we should definitely add it
22 to our list of things to look at. I think that's a great
23 idea.

24 BOARD MEMBER MARTINEZ: Thank you.

25 CHAIR GORDON: I should have asked earlier, Mark

1 or Heather or Barbara, any questions for Sarah? Any input
2 here before we move to the next item?

3 BOARD MEMBER ROSENBERG: I'll just jump in and
4 say that this is a really great presentation. I felt like
5 you're addressing a lot of the issues -- can you hear me?

6 CHAIR GORDON: Yes, we can.

7 BOARD MEMBER ROSENBERG: Addressing a lot of the
8 issues, just issues with job-training programs. That
9 sometimes we have job training in space without the full
10 pipeline of jobs and the supporting services around it. If
11 you really think about what are the barriers to jobs? What
12 are the -- and how do you have access to good jobs and that
13 whole piece. So I'm excited to learn more about it.

14 MS. WHITE: Great, thanks.

15 CHAIR GORDON: Thank you. Anyone else wanted to
16 weigh in at all? If not we need to do a vote on this first
17 item, before going to the next one. So we need a motion on
18 approving the Report from the California Workforce
19 Development Board on the Pre-Apprenticeship Program for
20 inclusion in our report for input to and inclusion in our
21 report.

22 MR. BARTRIDGE: And I didn't hear any changes to
23 the report.

24 CHAIR GORDON: No changes.

25 MR. BARTRIDGE: Okay. Very good.

1 Mark Gold?

2 CHAIR GORDON: Mark, did we lose you? Are you on
3 mute?

4 Did we mute him inadvertently?

5 MR. BARTRIDGE: Let's take it from the top.

6 CHAIR GORDON: All right, go for me. I'm here.

7 MR. BARTRIDGE: Chair Gordon?

8 CHAIR GORDON: Yes.

9 MR. BARTRIDGE: Heather?

10 BOARD MEMBER ROSENBERG: Here. Yes.

11 MR. BARTRIDGE: Barbara Lloyd?

12 BOARD MEMBER LLOYD: Yes.

13 MR. BARTRIDGE: Chelina Odbert?

14 BOARD MEMBER ODBERT: Yes.

15 MR. BARTRIDGE: Randall Martinez?

16 BOARD MEMBER MARTINEZ: Yes.

17 MR. BARTRIDGE: David Dias?

18 BOARD MEMBER DIAS: Yes.

19 MR. BARTRIDGE: And Mark Gold?

20 BOARD MEMBER GOLD:

21 BOARD MEMBER ROSENBERG: Mark had to step out.

22 He'll be back in a minute.

23 MR. BARTRIDGE: Okay.

24 CHAIR GORDON: We can have Mark abstain on this
25 one or we can come back to the vote. I don't know what the

1 right action is.

2 MR. BARTRIDGE: When he comes back we can --

3 BOARD MEMBER ROSENBERG: I don't know if he'll be
4 able to be back.

5 CHAIR GORDON: Okay. Good to know. All right,
6 thank you Barbara.

7 All right, so as new folks may not know the
8 Workforce Development Board handles both what we just heard
9 about, which is the direct money to them to run the Pre-
10 Apprenticeship Program. They also have the unenviable task
11 of trying to calculate the job impacts from this entire
12 program. And so Sarah's going to talk about that now.

13 MS. WHITE: All right. Great, thank you. Well,
14 some of the best news right now is that PowerPoint actually
15 has some new designs, so I'm very excited about that.

16 (Laughter.)

17 CHAIR GORDON: We're going to say this is a very
18 pretty slide you have here.

19 MS. WHITE: The other thing I should say is I
20 feel a little awkward. When you guys speak, I'm looking
21 behind me, because the voice is coming out of a speaker
22 back here. It's very disorienting, so I don't want you to
23 think that I'm being disrespectful by suddenly turning from
24 you when you talk to me. So let me get that housekeeping
25 out of the way, I can tell you the jobs numbers that you

1 want to hear about.

2 So Prop 39 in addition to retrofitting the
3 state's educational institutions, was also an investment
4 directly in clean energy workforce. It was intended to
5 increase the number of jobs in California, supporting
6 energy retrofit improvements. And by providing training in
7 sustainable careers to a variety of underserved
8 Californians, I just spoke about the last part, by working
9 with a range of stakeholders: the LEAs, community colleges,
10 the Conservation Corps and others.

11 So the State Workforce Board was tasked with
12 analyzing the jobs data for the K-12 construction jobs. In
13 2016 I came before you and talked about that whole universe
14 of jobs and what that did and didn't include.

15 And then last year we gave you an overview of the
16 methodology and the first jobs numbers. And to do so we
17 had to hire our colleagues at the University of California,
18 Berkeley and their team of national experts in construction
19 data modeling and analysis. And they also used some
20 Department of Industrial Relations data providing a sample
21 of certified payroll records with unique job quality
22 markers. So not just the job creation numbers, which we
23 model through IMPLAN, but also some ways to check on the
24 ground about the job quality of the jobs actually being
25 created.

1 All of the details on this methodology is in the
2 report. I don't have my labor economist on-call, so I will
3 go to the limits of my knowledge. But we can see if we
4 need some more details, but I think we've been able to
5 summarize it. And the big takeaway is yes, there's jobs,
6 and there's lots of them. So that is what you all want to
7 hear; yeah, so 18,000.

8 Well, so before I talk to this let me just say a
9 few things about this. More than 18,000 jobs have been
10 created from this work. This update that I'm going to talk
11 about right now that we submitted to you is it updated the
12 February 17 Jobs Report, which estimated job creation based
13 on clean energy projects that have been approved by the
14 Energy Commission from the start of the program in 2014
15 through now, the end of calendar year 2017. That's our
16 universe.

17 And the job estimates as before, are based on the
18 disbursement of grant funds rather than our final program
19 expenditures, because there is a year lag in the program
20 completion. So we base this on the approved energy
21 expenditures.

22 So a total of 18,571 jobs were created through
23 the end of calendar year 2017. I'm pleased to report this
24 is still on track with Berkeley's mid-range forecast.
25 Before this bill was ever signed into law there were some

1 job reviews (phonetic) and we are absolutely on track with
2 that, so that's great to know. And I think we're seeing
3 that -- you see it a little heated-up level of job creation
4 last year at 10,000. We're close to double that and I
5 think that's because you've seen also the level of
6 investment going up pretty rapidly.

7 So the Jobs Report is good. Here's what we know
8 about it. We know that about 8,000 direct jobs were
9 created. This means we're creating about 5.9 jobs per
10 million dollars of investment. That's a good job factor.

11 We know that the spending on Prop 39 projects
12 also has a multiplier effect as the investment stimulates
13 additional economic activity. And in most infrastructure
14 investments this is where you get a lot of the job
15 creation, so we see from this an additional 3,500 indirect
16 jobs in California. These are jobs in the industry that
17 provide supplies, materials, fuels, other inputs into the
18 energy efficiency projects and not the people actually
19 doing the installation or maintenance, but the actual
20 supply chain for this.

21 In addition, as wages as business income from
22 this work is spent in local communities. You get an
23 additional 7,000, nearly 7,000 jobs in a variety of what we
24 call induced jobs. So what this shows us is that we have a
25 multiplier of 2.3. That means 2.3 indirect and induced

1 jobs are created for every new direct job created. And
2 that's how we get our total of over 18,000 jobs.

3 And the other point that we made last year, and I
4 just want to make this point again, is that this is
5 critical authentic new job creation from Prop 39. Because
6 as we know, this was -- we got the money by closing a tax
7 loophole. What you often see in job creation numbers is
8 there's offsets, right? Because if this money had been
9 spent somewhere else that would create jobs elsewhere, so
10 it's great that we're creating jobs here, but they don't
11 really count as technically new jobs in the economy. This
12 is actually new jobs in the economy, because we have new
13 monies that would not otherwise have been spent in the
14 economy. So this is great, great information, great
15 employment numbers.

16 These say a little bit more about just the
17 general economic impact. So I should say we do all of
18 this, all of our work in this report is on 2016 dollars.
19 So we had to deflate the 2017 numbers, so that we're
20 talking apples and apples with all of our other reports
21 that we based on 2016.

22 So the K-12 approved energy expenditure plans
23 based on 2016 dollars had an enormous cumulative economic
24 unemployment impact. So we see that the spending of about
25 1.4 billion on these K-12 projects stimulated 667 million

1 in indirect spending. And another 1.1 billion in induced
2 spending, so in addition to our 18,000 jobs that
3 corresponds to a total economic impact of more than \$3
4 billion, which is a really remarkable feat of leverage on
5 behalf of these investments.

6 Let me say one other word about job quality,
7 because this is something we care about a lot and it
8 specifically says in the legislation that we want to
9 connect people to good quality jobs. So I'm going to
10 return to the quality indicators that we reviewed in the
11 first report that are still contained in this.

12 We see a variety of things that indicate to us
13 job quality, so the prevalence of construction jobs and the
14 more highly skilled trades including HVAC and electricians,
15 others, that is a sign of job quality. In addition, we see
16 the wages have prevailed, so these jobs have really high
17 wages and benefits. You know, just confirming what we
18 know, that the building trades is a pathway to middle class
19 careers for underserved Californians. And the average wage
20 rates were between \$36 and \$48 an hour with apprentices
21 pulling in \$25 an hour.

22 The other thing that we use as a proxy for job
23 quality is apprenticeship and apprenticeship utilization
24 rates. We had about an 18 percent utilization rate, which
25 means about roughly one apprentice to five journeymen,

1 which is a healthy kind of training ratio. And it means
2 there are a decent number of apprenticeships and that
3 almost every site had jobs with an opportunity for formal
4 training and advancement, which is what apprenticeship
5 delivers.

6 We don't have any reason to believe that these
7 numbers have changed significantly, but we do need to do
8 some updated sampling to get more robust data. And to
9 broker new data sets between CEC and the LEAs. So that's
10 something we can look forward to in the future. That's
11 another thing that we would like to invest more money in.
12 We don't have more money, so I will have to see when that
13 comes. We're hoping we can continue to build that up, but
14 I think we still have enough to say that we're creating
15 jobs and good ones.

16 And I'll leave you with that.

17 CHAIR GORDON: Thank you so much, Sarah.
18 Randall, you might have a question?

19 BOARD MEMBER MARTINEZ: I'm good.

20 CHAIR GORDON: Oh. Chelina, you always have a
21 question.

22 BOARD MEMBER ODBERT: Not at this time.

23 CHAIR GORDON: This is your world, David,
24 anything?

25 BOARD MEMBER DIAS: Perfect, actually.

1 CHAIR GORDON: Oh, look at that.

2 And I think it's just now Heather and Barbara on
3 the phone. This is new to you guys, so any questions about
4 we've all been through a couple of years of this. And so
5 we've all been through the methodology discussion, but do
6 you have questions about methodology? How these numbers
7 came about, how they're approaching them?

8 BOARD MEMBER ROSENBERG: No. My question just
9 really has to do again with sort of the dollars and cents
10 implications. It translates to about \$170,000 per combined
11 job created. And I'm wondering how that compares with
12 other programs that are track similar effects, whether it
13 be tax credit programs, you know, for affordable housing
14 where jobs are created, or business and industrial
15 development loans. You know, how does this compare?

16 MS. WHITE: Right. I don't know what that
17 comparison is. I know that we tend to not think about it
18 like we're buying X number of jobs. Like, it's 170,000 per
19 job created. I mean, I think because there's so much else
20 that goes into this impact on the number of jobs. There
21 are a lot of investments that -- a lot of it depends on the
22 industry, like how much you are paid. How often they're
23 working. What are the job years?

24 I think that -- so I don't know the comparison to
25 other industries. I know that based on our estimates for

1 what you can get and what we've seen around the country
2 with job creation through infrastructure investment, that
3 this is a good job number.

4 BOARD MEMBER ODBERT: Okay. I do have a
5 question.

6 CHAIR GORDON: Okay. Go ahead --

7 Just really quickly on that question. The other
8 thing that I always try to remind myself on jobs for
9 million dollars invested, for instance, is that we're not
10 just creating jobs with this program. We're also creating
11 energy savings and we're putting in fixtures and we're
12 doing HVAC systems. So there's a whole bunch of investment
13 happening and then there's this additional co-benefit of
14 the jobs. So it's not again (indiscernible) jobs.

15 BOARD MEMBER ROSENBERG: That's true, but these
16 particular dollars invested I thought were for the
17 workforce. So you're saying no, it's for the entirety of
18 the programming?

19 MS. WHITE: Oh, yes. The --

20 CHAIR GORDON: Go ahead (indiscernible).

21 MS. WHITE: This is not a training investment per
22 dollar. I can give you those. If you look at the training
23 that's from the last presentation that's a different
24 question if I think I hear (indiscernible). And that
25 averages between, depending on the program, but about

1 10,000 per, which is normally with the populations with
2 barriers to employment. It's about 15,000 if you want to
3 think about it that. So we're actually getting good bang
4 for our buck on the training side.

5 BOARD MEMBER ROSENBERG: On those program
6 expenditures, and this is the entirety of it?

7 MS. WHITE: This is the entirety. This is the
8 employment impact of all the money that's been spent,
9 invested in the retrofits. And that comes out to about --
10 that's where we think about it the other way -- 5.9 jobs
11 per million dollars invested.

12 BOARD MEMBER ROSENBERG: Yes.

13 MS. WHITE: And there's a rate. You know,
14 sometimes you can find them ten, that's very high per
15 million invested. It just depends on the nature of the
16 local construction market. So yeah, this is for the entire
17 investment of all the projects.

18 BOARD MEMBER ROSENBERG: Exactly.

19 MS. WHITE: And not even connected to the
20 training at all, right?

21 BOARD MEMBER ROSENBERG: Right.

22 MS. WHITE: This is like --

23 BOARD MEMBER ROSENBERG: Right. You're just
24 looking at the training impact. I understand where you're
25 coming from and like you said, you've got both numbers, but

1 just this part of different reporting metrics. Thank you.

2 CHAIR GORDON: Even though it's a different, so
3 they're literally -- let me see if I can explain this,
4 because it is confusing.

5 BOARD MEMBER ROSENBERG: I totally understand
6 (indiscernible) fund.

7 CHAIR GORDON: You do, okay. Got it, okay. Got
8 it.

9 MS. WHITE: Yeah, I think to say we're good. I
10 just want to reemphasize that so the Board had two tasks.
11 One was to set up this training program. The other
12 unrelated to that was to measure the jobs created by
13 investments in clean energy retrofits, all right?

14 CHAIR GORDON: All right, Chelina.

15 BOARD MEMBER ODBERT: Mine was just a curiosity
16 about the transition from apprentice to the full-time labor
17 force. Is there, I guess a standard amount of time that
18 one who's placed in an apprenticeship -- I know this is
19 going back. But before like does the apprenticeship have a
20 specific duration?

21 MS. WHITE: Right.

22 UNIDENTIFIED SPEAKER: Five years.

23 MS. WHITE: Yeah, it can be four years is an
24 average, right and sort of this is the apprenticeship.
25 Also you can think about this as more of a -- I think it's

1 easier to think about it without it going into it -- as a
2 process. Then it will be a series of jobs. You're not
3 just going to have one job where you apprentice on it.
4 It's a matter of learning the skills of a trade, which will
5 take place over -- depending on the trade, right? -- can be
6 from three to seven years in fact. So it's a long-term
7 process, which is based on both hours worked and classroom
8 training.

9 And your wages go up along with that, so
10 apprenticeship is a really complex beast to measure. And
11 we're talking about a long-term career investment, which is
12 why the pipeline in is so important, because it's a big
13 investment.

14 CHAIR GORDON: You probably don't want to explain
15 this, but just because I was reading through your data
16 limitations section, we know from the beginning of the
17 program that your original intention was to be able to use
18 the actual payroll data to estimate the jobs created on
19 this program. And I know that's been a challenge. It's
20 been a challenge every year. It looks like you actually
21 got some payroll data, but it was not organized in any way
22 that made it possible for you to work with it. Is that
23 fair?

24 MS. WHITE: Yes. (Laughter.)

25 CHAIR GORDON: All right. So we went back to

1 modeling based on --

2 MS. WHITE: Yeah, essentially a model. Again,
3 the certified payroll records gave us a sample, problematic
4 though it was, that allowed us to say some things about job
5 quality.

6 CHAIR GORDON: Okay. That's helpful, thank you.
7 Any other questions from you guys? Questions on
8 the phone or comments?

9 BOARD MEMBER ROSENBERG: I'm good, thank you.

10 CHAIR GORDON: Thank you.

11 BOARD MEMBER ODBERT: I'm good, thanks.

12 CHAIR GORDON: Wonderful, thanks for weighing in.

13 Yeah, I know this -- thank you again. I know
14 this is always a challenge, so we need -- this is our final
15 report motion for the day needs to happen. I didn't hear
16 any changes to this report either.

17 BOARD MEMBER MARTINEZ: So moved.

18 BOARD MEMBER DIAS: Second.

19 BOARD MEMBER LLOYD: Second.

20 CHAIR GORDON: Oh, we got a second on the phone,
21 and I'm going to take the second from the phone, just
22 because they get a chance to more seconding. And I think
23 that was Heather, was that Heather?

24 BOARD MEMBER ROSENBERG: No, it was Barbara.

25 CHAIR GORDON: It was Barbara. Okay. Thank you.

1 Okay. Last roll call on a motion, I think. Go
2 ahead.

3 MR. BARTRIDGE: Here we go. Mark Gold, absent.
4 David Dias?

5 BOARD MEMBER DIAS: Yes.

6 MR. BARTRIDGE: Randall Martinez?

7 BOARD MEMBER MARTINEZ: Yes.

8 MR. BARTRIDGE: Chelina Odbert?

9 BOARD MEMBER ODBERT: Yes.

10 MR. BARTRIDGE: Barbara Lloyd?

11 BOARD MEMBER LLOYD: Yes.

12 MR. BARTRIDGE: Heather Rosenberg?

13 BOARD MEMBER ROSENBERG: Yes.

14 MR. BARTRIDGE: And Chair Gordon?

15 CHAIR GORDON: Great.

16 This is the moment where we call for public
17 comment if there is any, from either the phone or in the
18 room. Any coming in?

19 MR. BARTRIDGE: Any blue cards in the room?

20 CHAIR GORDON: No. Very little public in the
21 room today, this is an unusually --

22 MR. BARTRIDGE: Or is there anybody on WebEx? If
23 you have any public comments on the WebEx, please raise
24 your hand?

25 CHAIR GORDON: Okay. Hearing none, so just as a

1 reminder before we close, actually a couple of things, one
2 is to correct an earlier mistake that I made. We actually
3 have two open seats on the Board still, not just one. I
4 was wrong, so just as a reminder we have a vacancy from the
5 AG's Office, which I think was Arno Harris's seat. And
6 then we have a vacancy from the Controller, which I think
7 was Walkie Ray's seat; is that right? So two vacant seats,
8 it always takes a while to get those filled as you know.
9 But they seem to be stepping that up, so that's great. So
10 we will look forward to letting you know who fills those
11 seats.

12 The second thing is again that the staff and I
13 now go into the phase of actually getting our report
14 written based on all this fantastic input and the reports
15 we've heard. And we will be reaching out to you as we
16 always do. We will not be trying our failed experiment of
17 subcommittees again this year, but we will be reaching out
18 individually to folks to ask for help.

19 Also, if you have any input, something coming out
20 of the meeting, you want to email us. Remember just email
21 individually, we can't all be on one chain. So please
22 email me and Jim and Jack and let us know if there's
23 anything you want us to make sure to include or say.

24 And we will be running -- doing our best to run
25 drafts by folks early, so that at our next meeting where we

1 do ideally need to vote on that report, we will all have
2 seen it. And can have a robust discussion.

3 I did want to remind everybody one more time that
4 unlike other years we're going into it -- this report is
5 going into a political context of not having money for this
6 program in the budget, and the need for an appropriation to
7 put money for this program into the budget. So we actually
8 are talking to the Legislature that we could be asking to
9 do something fairly specific, so please think about that.

10 BOARD MEMBER ROSENBERG: Can you clarify the time
11 for the March meeting?

12 CHAIR GORDON: Jim, staff?

13 MR. BARTRIDGE: Sure thing, it's 1:00 to 4:00.

14 CHAIR GORDON: Is it -- so on March 22nd, 1:00 to
15 4:00, same time.

16 BOARD MEMBER ROSENBERG: Okay. Thanks.

17 CHAIR GORDON: Thank you. No, it's -- and we
18 always welcome our L.A. friends to come for those, of
19 course.

20 BOARD MEMBER ROSENBERG: Working on it.

21 CHAIR GORDON: Chairman or Commissioner?

22 COMMISSIONER MCALLISTER: Oh, yes. Well, so I
23 know we're going to wrap up and I wanted to sort of catch a
24 minute before we adjourned, before the Chair adjourned this
25 meeting.

1 And really I want to just put in a little bit of
2 context, it won't take long. So this is -- you know,
3 originally the Board (phonetic) thought that this program
4 was about \$2.5 billion, about 500 million a year for five
5 years. It ended up somewhat level with that, lower than
6 that. But if you look at this program in context of all
7 the other programs that the State of California has run to
8 promote clean energy, it's right up there near the top.
9 You know, the CSI, the California Solar Initiative was in
10 the \$3 billion range.

11 But in terms of programs that the Energy
12 Commission has administered, this is the largest one ever,
13 I believe. And I want to just thank staff doing it. From
14 the beginning it's been very clear the commitment from
15 Executive Director on down. I've certainly pitched in my
16 own program experience, being out there in the world doing
17 this sort of thing. But state agencies have a whole series
18 of requirements and process needs that are absolutely valid
19 and have to be respected. And they do slow things down.

20 And so I have to say I'm just proud on behalf of
21 staff that we've gotten thousands of these proposals in.
22 We've processed them in a timely way. We've gotten them
23 through, we've gotten the money out in a reasonable amount
24 of time. You know, there's really very little
25 dissatisfaction with this program. And I want to just --

1 in the context that we live in today in a complex world,
2 that is a pretty remarkable achievement.

3 And certainly goes against some of the rhetoric
4 about government's role in the world these days and I
5 think, you know, a transparent process with stakeholders
6 who we listen to and we are flexible enough to respond to
7 and make changes to the program for. And efficiently get
8 through the work that needs to be done in a collective way,
9 I think it's really remarkable. And a very positive
10 outcome for California and so I think that message is
11 something that won't just sort of percolate around on the
12 natural. And so it's worth highlighting when we all go out
13 into the world and say, "Hey, now. Wait a second, here's
14 what we did to improve the lives of our kids and our
15 schools."

16 And so thank the people for voting for it. You
17 know, thank the Legislature for putting it through in its
18 form and funding it through the budgeting process. We'll
19 see what happens going forward. I think the good news is
20 that a lot of applications are coming in now. You know,
21 right up to the last day they're going to be coming in
22 apparently, so we may have 40 go in, we may have 0, right?
23 We don't know what that number is going to be and it really
24 depends.

25 Just yesterday we had a whole ton of applications

1 come in, so a couple of weeks ago it was 60 million. I
2 think more recently it was 40 million and it's dropping.
3 So we don't know what the final numbers' going to be. We
4 won't know until the second week of March, but in a sense
5 that's a good thing, because it means the program worked.
6 And people applied and they got their money.

7 So in any case I just wanted to highlight that,
8 because I think it sort of gets lost in the business. But
9 it's really a quite inspiring message of a program where
10 everything basically went well and went right. And
11 obviously we need to keep vigilant. We need to keep doing
12 the audit and we need to make sure that the money goes
13 where it needs to go. And it'll be nice to do some long-
14 term analysis, once we have complete data, to really learn
15 from the experience.

16 But anyway, I just wanted to not let that
17 opportunity go by to sum up that message.

18 CHAIR GORDON: Thank you, Commissioner
19 McAllister.

20 BOARD MEMBER LLOYD: This is --

21 CHAIR GORDON: Go ahead on the phone.

22 BOARD MEMBER LLOYD: Oh, yes. This is Barbara
23 Lloyd responding to that observation. In particular, the
24 likelihood of possibly even having a pipeline of projects
25 in the current application pool or some ability to project

1 what the demand would be, beyond the current application
2 cycle. And whether or not there's a mechanism for
3 including that in this report to the Legislature, even if
4 we have to survey some of the potential program
5 participants about what needs would be if we had an
6 unconstrained program.

7 COMMISSIONER MCALLISTER: That's a good point. I
8 think the community colleges in particular, are in a really
9 good spot. Because they have a punch list of projects and
10 they just sort of used their funds, as I understand it, to
11 kind of do everything that they could with the existing
12 funds. And they could continue to do that if they had more
13 funds. And so we would have to sort of gather that
14 information from the school districts and I think we could
15 start with the big ones. Just to --

16 BOARD MEMBER LLOYD: Yeah. I think it's a
17 worthwhile endeavor given what Ms. Gordon said about the
18 political context for this year's report being different.
19 And if folks can identify what their need is and we can
20 compile that and we can break it down by legislative
21 district. And inform all those legislators about the needs
22 in their district, I think that would be helpful.

23 CHAIR GORDON: Thanks, Barbara. That's a great
24 idea and there is an organization called the Coalition for
25 Adequate School Housing, CASH, that works directly with all

1 of the facilities' managers in the state and would be a
2 great place to start for that.

3 This was a challenge we had at the very beginning
4 of the Prop 39 Program, trying to figure out what the
5 pipeline was actually. It's there's no inventory of those,
6 school facilities' issues in the State of California. So
7 it's something that doesn't exist, but I think there's some
8 ways to at least get some anecdotal evidence.

9 It's a great idea. Thank you for bringing that
10 up.

11 MR. BARTRIDGE: Chair, if I may? I do wonder,
12 Bill and I had talked about the data that he has available.
13 And I'm wondering if there's any way to sort of mine
14 through some of that data to understand. I mean, what he
15 mentioned earlier was that that data could eventually --
16 you know, needs to be housed somewhere and whether it could
17 be analyzed in some way that is pretty comprehensive. So I
18 would just put that out there as a potential, Bill?

19 BOARD MEMBER LLOYD: That's all the energy audit
20 information that was done?

21 MR. BARTRIDGE: Correct, for the school
22 districts.

23 BOARD MEMBER LLOYD: Yeah. I think that's
24 another great idea and for charters we might be able to use
25 the California School Finance Authority as a resource for

1 gathering information from the charter school universe.
2 Just as a small subset, but I know they're a part of the
3 equation.

4 MR. MCNAMARA: So on the -- this is Bill McNamara
5 -- on the same topic. The amount of data that's been
6 accumulated through the energy auditing process, represents
7 more than a -- a sample of more than 20 percent of the
8 entire population of school buildings and LEAs in the
9 state. And it's at a tremendous detail level.

10 So there isn't currently a mechanism available in
11 the sense it was one of the things that we were looking
12 originally at doing. And in partnership with UC Davis
13 Energy Efficiency Center and others, we're looking at
14 populating and making an anonymized version of this data.
15 And then, of course, an identified version as well, but at
16 least making the anonymized version available for data
17 mining.

18 But this, the data itself is also inclusive of
19 best practices or should I say O&M practices, current. Not
20 just the technological expression and measurement of all
21 the facilities and across the state. But it certainly
22 could help inform a wide range of as these schools are all
23 in a commercial class of building sets. It certainly would
24 help to inform incentivization programs or other aspects
25 that people might look at, in terms of like we know,

1 through the process of application what people are applying
2 to do.

3 But there's this whole other body of knowledge
4 available as to what hasn't been done. And what actually
5 is identified as opportunity beyond things that maybe
6 perhaps made sense to the decision makers at the time who
7 submitted the EEPs.

8 CHAIR GORDON: That's a great point, thank you.
9 And I know that the Berkeley Center for Cities and Schools
10 also has done some work looking at what an inventory might
11 look like. And actually if Mark were here, he would say
12 one of his colleagues at UCLA has also been doing work on
13 this. So this seems like a fruitful area too, for us as a
14 Board, so start sort of talking among each other and
15 figuring out if there's a good -- talking to Bill, talking
16 to others about what is out there, what is possible, and
17 really demonstrating the need.

18 Barbara, thank you for bringing that up; it's a
19 great point. All right, and Barbara I may tap you to help
20 with this specific thing since you brought it -- you had
21 the idea, which means that you get to volunteer to help us
22 figure out how to pursue it.

23 BOARD MEMBER LLOYD: I'm happy to have a
24 conversation. I'm going to have to get out of the
25 conference room here in UCLA, because they're waiting

1 outside the door to get in.

2 CHAIR GORDON: Well, we are about to adjourn. So
3 is there any further questions or comments from the Board
4 or from staff?

5 Okay. Thank you all. Thank you so much
6 Commissioner McAllister, for being with us.

7 Welcome again to Barbara and Heather and the
8 meeting is adjourned.

9 (Adjourned at 3:54 p.m.)

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