

REGULAR MEETING of the Board of Directors of the Peninsula Clean Energy Authority (PCEA) Thursday, March 25, 2021 6:30 pm

PCEA shall make every effort to ensure that its video conferenced meetings are accessible to people with disabilities as required by Governor Newsom's March 17, 2020 Executive Order N-29-20. Individuals who need special assistance or a disability-related modification or accommodation (including auxiliary aids or services) to participate in this meeting, or who have a disability and wish to request an alternative format for the agenda, meeting notice, agenda packet or other writings that may be distributed at the meeting, should contact Anne Bartoletti, Board Clerk, at least 2 working days before the meeting at abartoletti @peninsulacleanenergy.com. Notification in advance of the meeting will enable PCEA to make best efforts to reasonably accommodate accessibility to this meeting and the materials related to it.

If you wish to speak to the Board, please use the "Raise Your Hand" function on the Ring Central platform. If you have anything that you wish to be distributed to the Board and included in the official record, please send to <u>abartoletti@peninsulacleanenergy.com</u>.

CALL TO ORDER / ROLL CALL

PUBLIC COMMENT

This item is reserved for persons wishing to address the Board on any PCEA-related matters that are as follows: 1) Not otherwise on this meeting agenda; 2) Listed on the Consent Agenda and/or Closed Session Agenda; 3) Chief Executive Officer's or Staff Report on the Regular Agenda; or 4) Board Members' Reports on the Regular Agenda. Public comments on matters not listed above shall be heard at the time the matter is called.

As with all public comment, members of the public who wish to address the Board shall be given an opportunity to do so by the Board Chair during the videoconference meeting. Speakers are customarily limited to two minutes, but an extension can be provided to you at the discretion of the Board Chair.

ACTION TO SET AGENDA and TO APPROVE CONSENT AGENDA ITEMS

This item is to set the final consent and regular agenda, and for the approval of the items listed on the consent agenda. All items on the consent agenda are approved by one action.

REGULAR AGENDA

- 1. Chair Report (Discussion)
- 2. CEO Report (Discussion)
- 3. Citizens Advisory Committee Report (Discussion)
- 4. Appointments to the Executive Committee and other Standing Committees (Action)
- 5. Approve Revised Policy 16 Selection of the Chair and Vice Chair and appointment to the Executive Committee and other standing Board Committees (Action)
- 6. Authorization to Adjust PCE Rates in Response to March 1, 2021 PG&E Rate Changes (Action)
- 7. Review Programs Accomplishments (Discussion)
- 8. Review of the Schools Engagement Programs (Discussion)
- 9. Board Members' Reports (Discussion)

CONSENT AGENDA

- 10. Approve Contract with RHA for Low-Income Homes Upgrade Program (Action)
- 11. Approve grant for San Mateo County Office of Education San Mateo Environmental Learning Collaborative Fellowship Programs (Action)
- 12. Approval of revised Executive Committee Meeting Schedule for 2021 to change the meeting time to 10:00 a.m. (Action)
- 13. Approval of revised Audit and Finance Committee Meeting Schedule for 2021 to change the meeting time to 8:30 a.m. (Action)
- 14. Approval of the Minutes for the February 25, 2021 Meeting (Action)

INFORMATION ONLY REPORTS

- 15. Marketing and Outreach Report
- 16. Regulatory and Legislative Report
- 17. Community Energy Programs Report

- 18. Procurement Report
- 19. Resiliency Strategy Report
- 20. Report on California Community Power (CCP) Joint Powers Authority on Board Meeting held on March 17, 2021
- 21. Industry Acronyms and Terms

Public records that relate to any item on the open session agenda for a regular board meeting are available for public inspection. Those records that are distributed less than 72 hours prior to the meeting are available for public inspection at the same time they are distributed to all members, or a majority of the members of the Board. The Board has designated the Peninsula Clean Energy office, located at 2075 Woodside Road, Redwood City, CA 94061, for the purpose of making those public records available for inspection. The documents are also available on the PCEA's Internet Web site located at: http://www.peninsulacleanenergy.com.

Instructions for Joining a RingCentral Meeting via Computer or Phone

Best Practices:

- Please mute your microphone when you are not speaking to minimize audio feedback
- If possible, utilize headphones or ear buds to minimize audio feedback
- If participating via videoconference, audio quality is often better if you use the dial-in option (Option 1 below) rather than your computer audio

Options for Joining

- A. Videoconference with Phone Call Audio (Recommended) see Option 1 below
- B. Videoconference with Computer Audio see Option 2 below
- C. Calling in from iPhone using one-tap see Option 3 below
- D. Calling in via Telephone/Landline see Option 4 below

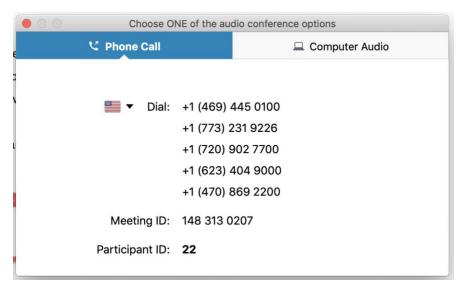
Videoconference Options:

Prior to the meeting, we recommend that you install the RingCentral Meetings application on your computer by clicking here: https://www.ringcentral.com/apps/rc-meetings

If you want full capabilities for videoconferencing (audio, video, screensharing) you must download the RingCentral application.

Option 1 Videoconference with Phone Call Audio (Recommended):

- From your computer, click on the following link: https://meetings.ringcentral.com/j/1488837798
- 2. The RingCentral Application will open on its own or you will be instructed to Open RingCentral Meetings.
- 3. After the application opens, the pop-up screen below will appear asking you to choose ONE of the audio conference options. Click on the Phone Call option at the top of the pop-up screen.

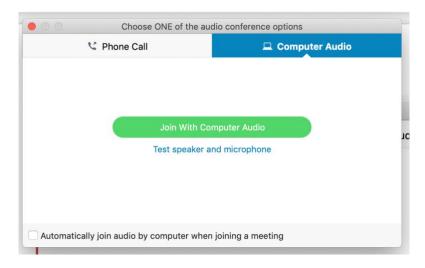


IMPORTANT: Please do not use the Participant ID that is in the picture to the left. Enter the Participant ID that appears on your own personal pop-up.

- 4. Please dial one of the phone numbers for the meeting (it does not matter which one):
 - +1 (623) 404 9000
 - +1 (469) 445 0100
 - +1 (773) 231 9226
 - +1 (720) 902 7700
 - +1 (470) 869 2200
- 5. You will be instructed to enter the meeting ID: 148 883 7798 followed by #
- 6. You will be instructed to enter in your **Participant ID followed by #.** Your Participant ID is unique to you and is what connects your phone number to your RingCentral account.
- 7. After a few seconds, your phone audio should be connected to the RingCentral application on your computer.
- 8. In order to enable video, click on "Start Video" in the bottom left hand corner of the screen. This menu bar is also where you can mute/unmute your audio.

Option 2 Videoconference with Computer Audio:

- 1. From your computer, click on the following link:
- 2. https://meetings.ringcentral.com/j/1488837798
- 3. The RingCentral Application will open on its own or you will be instructed to Open RingCentral Meetings.
- 4. After the application opens, the pop-up screen below will appear asking you to choose ONE of the audio conference options. Click on the Computer Audio option at the top of the pop-up screen.



- 5. Click the green **Join With Computer** Audio button
- 6. In order to enable video, click on "Start Video" in the bottom left hand corner of the screen. This menu bar is also where you can mute/unmute your audio.

Audio Only Options:

Please note that if you call in/use the audio only option, you will not be able to see the speakers or any presentation materials in real time.

Option 3: Calling in from iPhone using one-tap

Click on one of the following "one-tap" numbers from your iPhone. Any number will work, but dial by your location for better audio quality:

+1(623)4049000,,1488837798# (US West)

- +1(720)9027700,,1488837798# (US Central)
- +1(773)2319226,,1488837798# (US North)
- +1(469)4450100,,1488837798# (US South)
- +1(470)8692200,,1488837798# (US East)

This is the call-in number followed by the meeting ID. Your iPhone will dial both numbers for you.

You will be instructed to enter your participant ID followed by #

If you do not have a participant ID or do not know it, you can stay on the line and you will automatically join the meeting

Option 4: Calling in via Telephone/Landline:

Dial a following number based off of your location:

+1(623)4049000 (US West)

- +1(720)9027700 (US Central)
- +1(773)2319226 (US North)
- +1(469)4450100 (US South)
- +1(470)8692200 (US East)

You will be instructed to enter the meeting ID: 148 883 7798 followed by #

You will be instructed to enter your participant ID followed by #.

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PENINSULA CLEAN ENERGY AUTHORITY Board Correspondence

DATE: March 19, 2021

BOARD MEETING DATE: March 25, 2021

SPECIAL NOTICE/HEARING: None VOTE REQUIRED: None

TO: Honorable Peninsula Clean Energy Authority (PCE) Board of Directors

FROM: Jan Pepper, Chief Executive Officer

SUBJECT: CEO Report

REPORT:

Staffing Updates:

PCE is currently recruiting for three positions, which can be found <u>here</u> on our website:

- Community Outreach Manager for Los Banos
- Legislative Analyst
- Energy Contracts Manager

CalCCA Annual Meeting

The CalCCA annual meeting will be held from November 29 to December 1, 2021 in San Jose. This will be a hybrid in-person/virtual event. PCE is assisting in the planning along with SJCE and SVCE.

Los Banos Expansion

On March 8, PCE received a letter from the CPUC certifying the PCE Implementation Plan and Intent to Expand to Include the City of Los Banos Addendum. This letter is attached to this CEO report.

PCE Office Space

The owner of our office space on Woodside Road, Nearon Holdings, has put the property up for sale. The property consists of both 2055 and 2075 Woodside Road - we lease all of the space in 2075 Woodside Road and one office in 2055 Woodside Road. PCE staff and a couple of board members have evaluated the offering memorandum and determined for a number of reasons that it does not make sense for PCE to make an offer on the buildings.

Legislative Update

At the March 8 Executive Committee meeting, we were joined by our new State Senator Josh Becker, his energy advisor Ken Branson, and former PCE board member Daniel Yost. We received an update on two bills sponsored by Senator Becker, SB 67 and SB

68. The fact sheet for SB 67, "The 24/7 Clean Energy Standard" is attached to this report and, inspired by the work we are doing at PCE to get to 100% renewable energy on a 24/7 basis, starts to move the state to 24/7 clean energy by all load serving entities. The fact sheet for SB 68, "Reducing Electrification Barriers" seeks to remove barriers to more widespread adoption of decarbonization of buildings and transportation.

Also discussed at the Executive Committee was support for AB 843, which would allow CCAs to have access to the BioMAT program, an existing program that supports the development of renewable bioenergy electricity projects. This bill would allow CCA to be permitted to procure and recover costs for the BioMAT program, leveling the playing field with the IOUs. A fact sheet for this bill is also attached.

PCE is providing letters of support to the legislative Energy Committee Chairs for SB 67, SB 68, and AB 843. Additionally, PCE is providing a letter of support for SB 612 (Portantino) which provides CCAs access to renewable energy, greenhouse gas free energy, and resource adequacy from legacy IOU resources, which our customers are paying for through the PCIA. A fact sheet for SB 612 is also attached.

GO 156 Report

On February 26, Peninsula Clean Energy submitted its 2020 Annual Report to the California Public Utilities Commission on its procurement from women, minority, disabled veteran, and LGBT business enterprises and 2021 Annual Plan, pursuant to Senate Bill 255 and General Order Sections 9 and 10. This describes our ongoing and future efforts to build our supplier diversity program.

Impact of COVID-19 on PCE Load

Attached to this report are summary graphs of the impact of COVID-19 on PCE's load. The first graph, "Monthly Load", shows the change in monthly load on a monthly basis, March 2020 through February 2021. The February 2021 load was 8% less than the February 2020 load. The second graph, "Monthly Load Changes by Customer Class", shows that commercial classes have recovered from their lows in April 2020 except for dip in medium commercial load in February 2021, and that while residential load is still higher than pre-pandemic, the magnitude of that increase is less. The third graph, "Load Shapes (PCE)", shows the change overall in our load on an hourly basis.

Reach Codes

Attached to this report is an updated table showing the status of Reach Code adoption by PCE jurisdictions. New updates include: Colma adopted building codes requiring prewiring and increasing EV capable connections. Atherton, Belmont, Daly City, and South San Francisco are all scheduling reach code study sessions.

Other Meetings and Events Attended by CEO

On Monday, February 22, PCE staff (Jan Pepper, Jeremy Waen, and Rafael Reyes) and PCE board members Dave Pine, Donna Colson, and Jeff Aalfs met with CPUC Commissioner Cliff Rechtschaffen for a "meet-and-greet" to update the commissioner on PCE activities over the last year and highlight our electric transportation activities.

On Wednesday, February 24, I was invited to be one of four panelists at the OurEnergyPolicy Energy Leaders Webinar on The State of Long Duration Storage Webinar. The recording can be found here: https://www.ourenergypolicy.org/long-durationenergystorage/.

On Thursday, February 25, I was invited as the guest speaker at the California Alliance for Community Energy to discuss CC Power and the Long-Duration Energy Storage RFO.

On Tuesday, March 9, PCE staff (Jan Pepper and Jeremy Waen) and PCE board members Rick DeGolia and Tom Faria met with CPUC Commissioner Martha Guzman-Aceves for a "meet-and-greet" to update the commissioner on PCE's activities over the last year, and particularly highlighting our expansion to Los Banos.

I attended the March 17 board meeting of CC Power, the new JPA which currently consists of 8 CCAs. One of the items of discussion was a set of draft policies, including environmental and labor policies, for CC Power, which were developed by a subcommittee of the CC Power board on which I serve. The notes from this board meeting are found in agenda item 20.

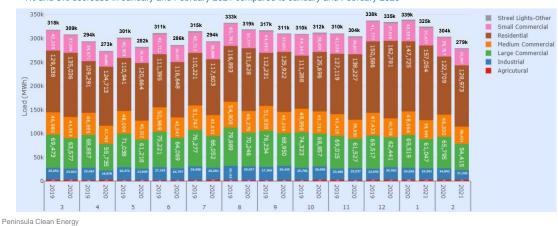
I participated in weekly and monthly CalCCA Board, Executive Committee, and Legislative Committee meetings.

I participated in SV5 (formerly called MAG5) meetings.

Impact of COVID-19 on PCE Load

Monthly Load

- 7% decrease in PCE's monthly load in the first few months after COVID (March through July of 2020 compared to same months in 2019)
- Only 2% decrease in August-December of 2020 (compared to same months in 2019)
- 4% and 8% decrease in January and February 2021 compared to January and February 2020

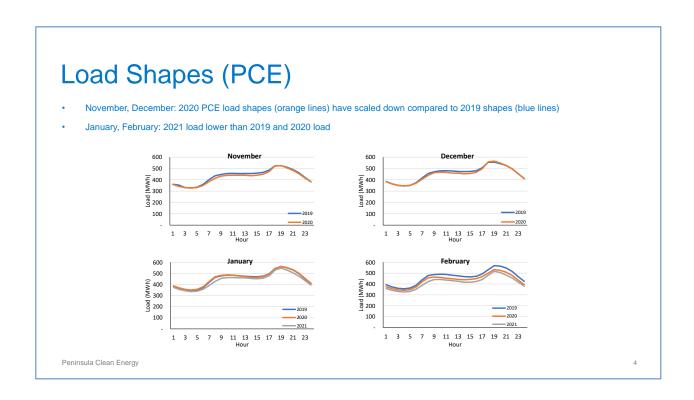


Monthly Load Changes by Customer Class

• Decrease in C&I load, increase in residential load in each month compared to same month in the previous year. (For months 3-12, the heatmap shows how much load in 2020 was lower/higher compared to same month in 2019. For months 1-2, it shows how much load in 2021 was lower/higher compared to same month in 2020).

Agricutural	13%	17%	-6%	16%	13%	-1%	2%	10%	-8%	-7%	-8%	-1%
Industrial	-9%	-22%	-9%	-9%	-10%	-4%	8%	12%	7%	13%	-1%	-15%
Small Commercial	-12%	-22%	-21%	-20%	-18%	-19%	-18%	-13%	-13%	-10%	-14%	-15%
Medium Commercial	-5%	-19%	-16%	-17%	-15%	-16%	-13%	-9%	-12%	-14%	-18%	-21%
Large Commercial	-8%	-19%	-14%	-15%	-13%	-12%	-10%	-7%	-11%	-10%	-12%	-17%
Residential	4%	14%	9%	5%	7%	13%	12%	13%	9%	8%	6%	5%
Street Lights-Other	-1%	-2%	-1%	0%	2%	0%	0%	0%	-1%	-1%	0%	-5%
PCE	-3%	-7%	-6%	-8%	-7%	-4%	-2%	1%	-2%	-1%	-4%	-8%
Month	3	4	5	6	7	8	9	10	11	12	1	2

Peninsula Clean Energy



San Mateo County Reach Code Status

New:

- Colma Adoption of Reach Codes
- Atherton, Belmont, Daly City, and South SF scheduling study sessions

Member Agency	Reach Code Status	Building (proposed)	EV
Brisbane	Adopted	All-electric w/ exceptions	MUD 1xL2/ unit
Burlingame	Adopted	All-electric w/ exceptions	PCE model code (variant)
East Palo Alto	Adopted	All-electric w/ exceptions	PCE model code (variant)
Millbrae	Adopted	All-electric w/ exceptions	PCE model code (variant)
Menlo Park	Adopted	All-electric w/ exceptions	(existing EV code)
Pacifica	Adopted	All-electric w/ exceptions	(existing EV code)
County of San Mateo	Adopted	All-electric w/ exceptions	PCE model code
Redwood City	Adopted	All-electric w/ exceptions	PCE model code
San Mateo	Adopted	All-electric w/ exceptions (updated)	Increase EV capable
San Carlos	Adopted	All-electric w/ exceptions (updated)	PCE model code
Colma	Adopted	Prewiring required	Increase EV capable
Portola Valley	1st reading TBD	(All-electric w/ exceptions)	(existing EV code)
Atherton, Belmont, Daly City, South SF	Scheduling study session		
Foster City, Half Moon Bay, Hillsborough, San Bruno	Letter of Intent, Staff discussions or Council briefing done		
Woodside	Declined		

STATE OF CALIFORNIA Gavin Newsom, Governor

PUBLIC UTILITIES COMMISSION

505 VAN NESS AVENUE SAN FRANCISCO, CA 94102-3298



March 8, 2021

Jan Pepper Chief Executive Officer Peninsula Clean energy 2075 Woodside Road Redwood City CA 94061 (650) 260-0005

RE: Letter Certifying Peninsula Clean Energy (PCE) Implementation Plan and Statement of Intent to Expand to Include the City of Los Banos Addendum

Dear Ms. Pepper:

The California Public Utilities Commission's Energy Division has reviewed PCE Implementation Plan and Statement of Intent Addendum to expand to include the City of Los Banos, which was submitted to us on December 22, 2020 to begin service in the City of Los Banos effective April 2022.

Pursuant to Public Utilities Code Section 366.2 (c)(7), within 90 days after the Community Choice Aggregator (CCA) establishing load aggregation files an Implementation Plan, the Commission is required to certify that it has received the Implementation Plan, including any additional information necessary to determine a cost-recovery mechanism.

Public Utilities Code Section 366.2 (c)(3) requires a CCA Implementation Plan to contain all of the following:

- A) An organizational structure of the program, its operations, and its funding.
- B) Rate setting and other costs to participants.
- C) Provisions for disclosure and due process in setting rates and allocating costs among participants.
- D) The methods for entering and terminating agreements with other entities.
- E) The rights and responsibilities of program participants, including, but not limited to, consumer protection procedures, credit issues, and shutoff procedures.
- F) Details regarding the termination of the program.
- G) A description of the third parties that will be supplying electricity under the program, including, but not limited to, information about financial, technical and operational capabilities.

Jan Pepper March 8, 2021 Page 2

Pursuant to Public Utilities Code Section 366.2 (c)(4), a CCA is also to prepare and provide for all of the following:

- A) A statement of intent; and
- B) Provision(s) that provide for:
 - 1) Universal access;
 - 2) Reliability;
 - 3) Equitable treatment of all classes of customers; and
 - 4) Compliance with any legal requirements concerning aggregated service.

The Commission hereby certifies that the Implementation Plan and Statement of Intent Addendum submitted by PCE contain the information required by Public Utilities Code Section 366.2 (c). Should there be any modification to the Implementation Plan, including but not limited to the start date, anticipated load and phase-in schedule, PCE shall submit an updated Implementation Plan to the Commission in the same manner it submitted the original plan.

Pursuant to P.U. Code Section 366.2 (c)(7), the Commission is required to provide PCE with "its findings regarding any cost recovery that must be paid by customers of the community choice aggregator to prevent a shifting of costs as provided for in P.U. Code Section 366.2 subdivisions (d), (e) and (f)." The costs referenced in P.U. Code Section 366.2 subdivisions (d), (e) and (f) are recovered via separate charges for: (1) Power Charge Indifference Adjustment (per kWh); (2) DWR Bond Charge (per kWh); and (3) Competition Transition Charge (CTC) (per kWh). By this letter, the Commission informs PCE that these costs are identified on each of Pacific Gas and Electric customer-class-specific tariff sheets, in the "Special Conditions" section, sub-section "Billing," in the section labeled "Direct Access (DA) and Community Choice Aggregation (CCA) customers" and in the column labeled "Community Choice Aggregation Cost Responsibility Surcharge (CCA CRS)."

Sincerely,

Edward Randolph

Director, Energy Division

Som FOR

California Public Utilities Commission

cc: Ronald Jang (RJL9@pge.com and USPS)

Mitchell Shapson (Mitchell.Shapson@cpuc.ca.gov)

Aaron Jacobs-Smith (Aaron.Jacobs-Smith@cpuc.ca.gov)

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Leslie Brown (lbrown@peninsulacleanenergy.com)



Senator Josh Becker, 13th Senate District

SB 67 - The 24/7 Clean Energy Standard

IN BRIEF

SB 67 expands upon the Renewables Portfolio Standard, establishing annual procurement requirements for clean energy (renewables and other zero-carbon sources) to reach 85% clean energy by 2030, 90% by 2035, and a path to 100% clean energy by 2045. It also requires the timing of delivery of clean energy to be better matched to the timing of electricity usage, including a requirement for 60% clean energy during the evening net peak by 2030 and 75% by 2035.

BACKGROUND

The Renewables Portfolio Standard (RPS) has been the primary driver of California's shift toward zero carbon energy. Under current law, the RPS requires all loadserving entities (LSEs) – which includes investor-owned utilities, publicly-owned utilities, community choice aggregators, and Electric Service Providers – to procure renewable energy equal to 60% of their retail sales by 2030 and for all years after that. Under the RPS, renewable energy credits (RECs) are used to track how much renewable energy was purchased by each LSE and compared to total retail sales annually. RECs are separated into portfolio content categories (commonly referred to as "buckets"). Bucket 1 RECs represent energy that was purchased along with the REC and directly delivered to the state. Other buckets of RECs represent renewable energy that was generated somewhere else with only substitute energy, if any, actually delivered to the state.

SB 100 (2018) established a target for 100% of retail sales to be provided by renewables "and other zero carbon resources" by 2045. After extensive stakeholder engagement, the joint agencies (CARB, CPUC, CEC) determined that zero carbon resources include renewables as well as hydroelectric and nuclear power and potentially other technologies in the future that have no on-site greenhouse gas (GHG) emissions. The agencies also determined that the scope of the law is limited to retail sales of electricity and procurement for state agencies, which represents only ~82% of all electrical loads. The other 18% of electricity is not covered by any renewable or clean energy requirements.

In 2019, 63 percent of retail sales of electricity was supplied from clean sources (36% renewables, 17% large hydro, 10% nuclear). However, 6% of that nuclear is planned for retirement (Diablo Canyon), and hydro produced 28% more

energy in 2019 than its average over 2001-2017.³ Adjusting for these differences, existing nuclear and large hydro resources can be expected to contribute ~17% annually above what is provided by renewables in an average year.

THE PROBLEM

First, the state lacks a mechanism, equivalent to the RPS, to set a path to achieving 100% clean energy. We should be tracking the use of the broader set of clean energy resources allowed under SB 100 and driving the power sector to higher levels of clean energy use via interim targets. Today, there is no enforceable policy beyond the RPS requirement for 60% renewables by 2030.

Second, the RPS measures procurement of renewables vs. sales only on a 3- or 4-year cumulative basis rather than requiring clean energy generation to align with the times when electricity is used. That allows LSEs to take credit for high levels of renewables during sunny days while continuing to rely on fossil fuels during the evening and overnight. This has contributed to an ever-steeper "duck curve" and the large increase in energy needed from gas peaker plants during evening hours. The black-outs of August 2020 occurred during this period, when electrical loads stayed high even as solar power dropped off as the sun went down. To reach a truly clean electric supply, improve grid resilience and prevent black-outs, especially as the state moves toward 100% clean energy, it will be essential to deliver clean energy at all of the times when it is needed, even when the sun isn't shining and the wind isn't blowing.

To better align the timing of clean energy to load, we will need a mix of energy storage and a variety of clean generation sources that can provide energy at harder-to-serve times (such as geothermal and onshore and offshore wind) as well as demand flexibility to shift load away from harder-to-serve hours. Because RPS compliance is measured only on a multi-year basis, there is little incentive today to invest in these important resources.

Finally, the state could achieve the current "100%" target and still have substantial GHG emissions from the 18% of electricity not included within the current scope of the law. In fact, it is assumed in the joint agencies' modeling that gas plants would continue to provide much of the 8% of electrical load that goes to line losses and other utility uses and is not counted under retail sales. We should clarify that a "100%" target actually means 100% of all electricity.

¹ Draft SB 100 Joint Agency Report, p. 64 and p. 70: https://efiling.energy.ca.gov/getdocument.aspx?tn=235848

² Ibid, Figure 15.

³ CEC's "Tracking Progress" Table 2 on page 5: https://www.energy.ca.gov/sites/default/files/2019-12/installed_capacity_ada.pdf

THE SOLUTION

SB 67 establishes additional tracking and compliance targets for the broader set of clean energy resources allowed under SB 100 while leaving existing RPS requirements unchanged.

- It defines clean energy resources consistent with the joint agencies SB 100 report. For clarity, it states that electricity from hydrogen that is created with no GHG emissions is a clean energy resource.
- It establishes tracking of clean energy credits, similar to RECs, but on an hourly basis so that delivery of clean energy can be compared to load for each hour.
- It defines how energy storage charged from clean energy can create clean energy credits for the hours during which the stored energy is released. This provides a formal way to account for how energy storage shifts the timing of clean energy delivery.
- It establishes annual compliance periods, starting in 2024, and requires 85% of retail sales to be clean energy annually by 2030 and 90% by 2035.
- It also directs the CEC to define an evening "net peak" subperiod and requires 60% clean energy during this subperiod by 2030 and 75% by 2035.
- It requires the PUC and CEC to establish interim targets for the annual period and net peak subperiod, starting in 2024, ramping up to the 2030 and 2035 targets, and continuing on toward the 100% requirement by 2045.
- The 2024 targets will be based on each LSE's baseline during calendar year 2021 so targets in early years reflect the differing starting points for each LSE.
- It restricts how clean energy credits can be used to meet these targets in two important ways:
 - 1. Only energy and credits meeting the "bucket 1" requirements can be counted toward the targets, since those represent energy that was actually delivered to the state's grid during the credit's hour.
 - 2. Excess credits for any single hour (beyond the LSE's retail sales during that hour) may not be counted toward the targets since it was not actually used by the LSE to meet demand.
- Excess credits beyond what are retired to meet targets during a compliance period may be banked and used to meet targets in the following year, similar to the RPS.
- The procurement of demand flexibility to shift load on a daily basis is encouraged as a means of reducing load in harder-to-serve evening net peak hours in favor of increased load in easier-to-serve hours, for example.

SB 67 also adjusts the 2045 goal to require 100% clean energy for all electrical loads in the state, including the line losses, utility energy uses, and self-generation loads that were previously excluded.

This clean energy standard will preserve the existing RPS but augment it to expand the use of clean energy resources

by 2030 and set interim targets on the path to a truly 100% clean energy grid by 2045. The 2030 target represents an increase in clean energy of 8% beyond what would be expected from the 60% RPS target plus existing hydro and nuclear resources. By using clearer accounting for clean energy that tracks what is delivered to California and used on an hourly basis, the clean energy standard will also ensure that only energy that actually serves California is counted. Those changes, along with the requirement for 60% of electricity to be clean even during the evening net peak hours by 2030 and 75% by 2035, will substantially reduce California's dependence on fossil fuel plants, reducing GHG emissions and lowering air pollution in frontline communities. All of these changes to align clean energy supply with demand on a year-round 24/7 basis will spur investment into the diverse portfolio of clean energy resources, energy storage, and demand side flexibility that California will need to get to 100%.

Building the new generation, storage and transmission to meet the requirements of this bill will create tens of thousands more high quality, family supporting jobs than existing RPS requirements. The billions of dollars of new investment will be a continuing boost for the California economy.

SUPPORT

350 Silicon Valley California League of Conservation Voters Environment California OhmConnect State Building and Construction Trade Council TURN

FOR MORE INFORMATION

Ken Branson (650) 823-6177 Ken.Branson@sen.ca.gov



Senator Josh Becker, 13th Senate District

SB 68 – Reducing the Barriers to Electrification

IN BRIEF

When building owners want to switch to electric equipment for heating or to install vehicle chargers or energy storage equipment, they often face high costs and long delays to upgrade their electrical service capacity and rewire their electrical panels to handle the extra load. These problems are a major barrier to the widespread adoption of technologies that are important for the decarbonization of buildings and transportation. SB 68 will reduce these barriers in four ways:

- 1. By directing the CEC to develop a guide for electrification.
- 2. By supporting the development of technology to reduce the *need* for upgrades and, when needed, reduce the *cost* of upgrades and rewiring.
- 3. By establishing service level standards for utilities to complete upgrades in a timely manner.
- 4. By requesting an analysis of additional barriers to electrification that should be addressed.

BACKGROUND & PROBLEM

Many homes, multifamily dwellings, and commercial buildings were built with electrical service capacity that did not anticipate a conversion to electric space and water heating, electric cooking, and charging electric vehicles. For example, older homes usually have 100A electrical service, and it is difficult or impossible to accommodate new electrical equipment for car charging, heating, and cooking within the existing electrical service capacity.

The need for an electrical service upgrade is often also triggered when installing solar or energy storage. Electrical codes allow the main electrical panel to accommodate potential inflows of 120% of the panel capacity. Since solar and storage provide additional inflows of power, they are limited to that extra 20%. For a 100A panel, that would allow 100A from the grid plus 20A from the solar and storage combined. Since most solar systems are larger than that, the electrical service capacity often needs to be upgraded to allow the increased power inputs.

If more electrical capacity is needed, building owners must request an upgrade from their utility. As a first step, the utility does an inspection of the existing meter location to verify that running wires to that location still meets safety requirements. If so, they schedule workers to perform the upgrade, which may require running new wires and upgrading the transformer on the power line pole, for example. The work to disconnect, upgrade, and reconnect service takes a few hours in routine cases. However, in many areas building owners routinely wait *months* for meter inspections and to get the upgrade work completed.

In more complex cases, such as when trenching is required for underground connections, waiting on the utility to provide upgraded electrical capacity often causes expensive, months-long delays to remodeling projects.

The costs and delays associated with upgrading electrical service capacity are a significant barrier to achieving California's climate goals. Combined, the emissions from the transportation and residential and commercial building sectors represent more than 50% of greenhouse gas (GHG) emissions in California.¹ They are also the primary sources of local air pollution, outside of major industrial areas. Electrification of light duty vehicles and energy use in buildings is one of the main pathways for reducing both GHG and criteria air pollutant emissions. Therefore, state policy should be strongly encouraging the voluntary actions of building owners who want to replace fossil fuel-powered building equipment with electrical equipment and add vehicle chargers to support a switch to electric vehicles. Whenever a water heater or furnace needs to be replaced, we want building owners to choose an electric model, but that is unlikely to happen if they will face months of delays in getting their electrical service upgraded to accommodate the new equipment. Therefore, avoiding the need for an upgrade or making the upgrade happen as quickly and inexpensively as possible, when needed, is crucial for achieving the state's decarbonization goals.

THE SOLUTION

SB 68 does not require any building owner to electrify their building, but for those who want to do so, the bill addresses these barriers through a multi-pronged approach:

First, information... There are approaches and technologies that allow building owners to support more electric equipment and avoid the cost and delay of upgrading their electrical service capacity,² but these approaches are not widely known, even by contractors, and the technologies that can help are new and not widely deployed. And whether or not an electrical service upgrade will be required, it is cost-effective to plan ahead for the capacity and wiring needed for all future electrical equipment rather than making changes piecemeal when adding a car charger or switching to an electric water heater. For both of these reasons, building owners would benefit from a more wholistic and strategic approach electrifying their buildings rather than treating each step as an isolated project. The bill directs the CEC to create a building electrification guide,

¹https://ww3.arb.ca.gov/cc/inventory/pubs/reports/2000_2017/ghg_invent_ory_trends_00-17.pdf

² https://www.sanioseca.gov/Home/ShowDocument?id=69602

modeled on the "Solar Permitting Guidebook," which helped to spread knowledge and drive standardization in the solar industry to reduce costs and massively increase the deployment of solar.

Second, technology... The bill expands the mandate for the EPIC program⁴ to include technologies that reduce the costs of building electrification, including by reducing or avoiding the costs of expanding electrical service capacity and electrical panel upgrades for existing buildings. For example, devices that allow a car charger and a dryer to share the same circuit (pausing one when the other is in use) can provide a cost-effective alternative to upgrading electrical service capacity.

Third, faster upgrades... The bill establishes service level standards for utilities to respond to electrical service upgrade requests and complete work in routine cases within specified deadlines, including penalties for missed deadlines to give the requirements teeth. For more complex upgrades or new electrical service connections, it directs the CPUC to establish required response times for each stage of the process: initial inspections, approval of plans, and completing the work. In both cases, it allows the CPUC to define special circumstances under which exceptions to the response times are allowed, but for the majority of cases, the rules will require consistently prompt service so that building owners are not deterred by slow upgrades.

Fourth, identifying further barriers... the bill directs the CEC to prepare a report for the legislature on other barriers to electrifying buildings, including workforce readiness, gaps in technology, permitting and inspections processes, the availability of low-cost financing, and the need for financial assistance for low-income owners and owners of affordable housing. This will identify areas for future improvement.

Combined, these changes will make it easier for building owners to choose to electrify their buildings and switch to electric vehicles – a crucial part of California's climate strategy.

SUPPORT

TBD

FOR MORE INFORMATION

Ken Branson (650) 823-6177 Ken.Branson@sen.ca.gov

³ https://opr.ca.gov/docs/20190226-Solar_Permitting_Guidebook_4th_Edition.pdf

⁴ https://www.cpuc.ca.gov/energyrdd/



Assemblymember Cecilia Aguiar-Curry, 4th Assembly District

AB 843 – Enabling Community Choice Agencies to Access CPUC Bioenergy Funds

SUMMARY

AB 843 is a narrow bill aimed to allow Community Choice Aggregators (CCAs) to access an existing state program that provides funding for renewable bioenergy electricity projects, including biomass and biogas. AB 843 does not propose any structural changes to the existing bioenergy program and allows for similar regulatory oversight of the program with the new applicants as currently administered.

BACKGROUND

SB 1122 (2012) created a bioenergy feed-in tariff within the Renewable Portfolio Standard program, and required Investor-Owned Utilities (IOUs) to procure 250 MW from then-new small-scale bioenergy projects. The California Public Utilities Commission (CPUC) created the BioMAT program, a feed-in tariff specifically for this purpose. The BioMAT program includes procurement of:

- Biogas from wastewater treatment, municipal composting, food processing, or co-digestion;
- Dairy and other agricultural bioenergy; and
- Generation from byproducts of sustainable forest management.

PROBLEM

Currently, only IOUs are able to access the BioMAT funds and there is a large amount of available capacity remaining under the 250 MW cap set in statute. At the time of the SB 1122's passage in 2012, only one CCA had launched.

CCAs are local government agencies that operate electricity generation services and other programs for customers within their service areas. The first CCA in California began service in 2010 and now over 10 million Californians are served by CCAs throughout the state.

In the Commission's most recent review of the BioMAT program, Energy Division Staff recommended that CCAs, among others, be permitted to procure and recover costs for the BioMAT program. The Commission rejected this recommendation given the statutory limitations of SB 1122 (2012), which only included IOUs.

SOLUTION

Bioenergy generated from organic waste cuts greenhouse gas emissions, reduces catastrophic wildfires, helps divert waste from landfills, produces organic soil amendments for California's soils, and generates 2 to 6 times as many jobs as fossil fuel based power.

In contrast to other renewable resources such as wind and solar, bioenergy resources such as biomass or biogas are considered stable generation sources on the grid because the power is available 24/7. This allows purchases of bioenergy resources to compensate for intermittent resources and contributes to grid stability and reliability. As California's renewable energy goals becomes more ambitious, it is imperative that the grid contains a balanced mix of resources.

Separately, cities and counties are currently implementing SB 1383 (2016, Lara), which sets targets for reducing short-lived climate pollutants including methane, and black carbon. One of the potential compliance pathways a city/county can take to reduce short-lived climate pollutants is through bioenergy. Some local governments have expressed interest in exploring bioenergy with their CCAs, but these projects are usually cost-prohibitive for CCAs without access to cost recovery through the BioMAT program.

The air emissions impact of the catastrophic 2020 California wildfires is currently estimated to be over 100 million metric tons of CO2. AB 843 ensures that there are profitable waste streams for some of this material, incentivizing better forest and agricultural land management as well as providing potential renewable energy resources for microgrids and other backup energy projects.

THIS BILL

AB 843 provides opportunities for CCAs to purchase more baseload resources, contributing to grid reliability as California's energy mix becomes increasingly intermittent. It also offers potential local government partners to sanitation and waste agencies seeking to meet state and local methane reduction goals.

Specifically, AB 843:

- Gives CCAs the option to access funding their customers are already paying for bioenergy facilities.
- Does not raise the 250 MW cap or change the size of eligible bioenergy facilities.
- Provides similar CPUC oversight to funds used for CCA bioenergy contracts as it does for IOU bioenergy contracts.
- Does not provide any further CPUC oversight over CCA procurement.



Assemblymember Cecilia Aguiar-Curry, 4th Assembly District

AB 843 - Enabling Community Choice Agencies to Access CPUC Bioenergy Funds

SUPPORT

Bioenergy Association of California
California Association of Sanitation Agencies
Central Coast Community Energy
Pioneer Community Energy (Co-Sponsor)
Resource Recovery Coalition of California
Rural County Representatives of California
Marin Clean Energy (Co-Sponsor)
Valley Clean Energy
Western Placer Waste Management Authority
Wisewood Energy

CONTACT

Alice Montes| Senior Legislative Aide (916) 319-2004 (O)
Alice.Montes@asm.ca.gov

SB 612 (Portantino) Ratepayer Equity

PROBLEM

Over the last decade, more than 11 million investor-owned utility (IOU) customers have transitioned from IOU electric service to Community Choice Aggregators (CCAs), local government-owned utilities choosing to purchase electricity on behalf of their communities.

As part of this transition, CCA customers must share in the cost responsibility with IOU customers for the resource contracts entered into by IOUs prior to their departure for CCA service.

While CCA customers must pay their fair share of the contracts, they do not have access to any of the benefits the resources from these contracts provide as those benefits are retained by the IOU for their customers.

As a result, CCA customers must pay for redundant resources to meet compliance requirements even though they already pay for the products as part of their obligation for transitioning to a CCA. There is no good policy rationale for this inequitable treatment of CCA customers versus their IOU counterparts.

BACKGROUND

Early state mandated procurement of renewable energy by IOUs resulted in California's rapid transition to renewable energy. As renewable resources have grown to scale, both prices and market value for renewable energy have declined, leaving a significant portion of the IOU initial renewable contracts underwater. These contracts, often referred to as "legacy contracts" have produced billions of dollars of above-market costs that are recovered from all ratepayers.

While these resources produce high costs, they also produce valuable products such as renewable energy, greenhouse gas free energy, and resource adequacy, products needed by all energy providers to meet their clean energy goals and remain in compliance with reliability requirements. However, under the current structure, these products are retained by the IOU for its own compliance purposes.

SUMMARY

This bill ensures fair and equal access to the benefits of legacy contracts resources for all customers and ensures that IOU portfolios are managed to maximize value and reduce unnecessary costs for all customers. Specifically, this bill:

- Provides customers equal access to the legacy products they are paying for in proportion to what they are paying.
- 2) Requires the CPUC to recognize the value of GHG-free energy in the same way renewable energy or RA products are recognized.
- 3) Requires IOUs to annually sell any remaining excess legacy resource products not taken by former customers to the wholesale market.
- 4) Requires IOUs to transparently engage legacy resource holders in re-negotiating, buying out, or otherwise reducing costs from these contracts.

SUPPORT

California Community Choice Association
California Choice Energy Authority
Central Coast Community Energy
Clean Power Alliance
East Bay Community Energy
MCE
Pioneer Community Energy
Redwood Coast Energy Authority
San Jose Clean Energy
Silicon Valley Clean Energy
Silicon Valley Clean Energy
City of Agoura Hills
City of Arcadia

City of Berkeley City of Hayward City of Oakland City of San Jose City of Santa Monica City of Thousand Oaks City of West Hollywood

Version: 3/19/2021





PENINSULA CLEAN ENERGY AUTHORITY JPA Board Correspondence

DATE: March 17, 2021
BOARD MEETING DATE: March 25, 2021
SPECIAL NOTICE/HEARING: None
VOTE REQUIRED: Majority Present

TO: Honorable Peninsula Clean Energy Authority Board of Directors

FROM: Jan Pepper, CEO, Peninsula Clean Energy Authority

SUBJECT: Revision to Policy 16 - Board Officers & Committee Appointments

RECOMMENDATION:

Approve revised Policy 16: Selection of the Chair and Vice Chair and appointment to the Executive Committee and other standing Board Committees.

BACKGROUND:

Peninsula Clean Energy Authority (PCE) was formed in February 2016 by the County of San Mateo and all twenty cities within the County. In March 2016, the PCE Board elected its first Chair (Dave Pine) and Vice Chair (Jeff Aalfs). In January 2018, the PCE Board adopted Policy 16 to govern the "Selection of the Chair and Vice Chair and appointment to the Executive Committee and other standing Board Committees." In February 2018, the PCE Board elected its second Chair (Jeff Aalfs) and Vice Chair (Rick DeGolia). In February 2021, the PCE Board elected its third Chair (Rick DeGolia) and Vice Chair (Donna Colson).

The PCE Board has established two committees:

- In April 2016, the PCE Board formed and appointed an Executive Committee made up of eight members.
- In April 2017, the PCE Board formed and appointed an Audit and Finance Committee made up of four members.

Policy 16 currently provides for a process that results in selection of these Committees in March.

In addition, from time to time, the CEO has requested that members of the Board serve on committees to provide her advice and counsel on a variety of topics. The policy described below and attached hereto is not intended to inhibit that practice. However, it is of note that those advisory groups will not be convened with a quorum of Executive Committee members or Audit and Finance Committee Members.

On January 24, 2019, in order to ease the Executive Committee and Audit and Finance Committee's ability to reach a quorum, Policy 16 was revised to allow "up to nine members" on the Executive Committee, and "up to five members" on the Audit and Finance Committee.

DISCUSSION:

After the elections in November of 2020, the Executive Committee lost two members which reduced membership to seven. The reduction in the size of the Executive Committee inherently reduced the number of Board members who could participate on subcommittees without reaching a quorum of the Executive Committee. Staff recommends adjusting Policy 16 to enable the newly elected Chair and Vice Chair to make appointments to the Executive Committee and other standing Board Committees on an interim basis if there are vacancies, until the new slates for these committees are approved by the Board of Directors. This adjustment to Policy 16 was discussed at the Executive Committee meeting in March 2021 and was recommended for approval by the Executive Committee.

PENINSULA CLEAN ENERGY AUTHORITY, COUNTY OF SAN MATEO, STATE OF CALIFORNIA

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AND VICE CHAIR AND APPOINMENT OF MEMBERS TO THE EXECUTIVE COMMITTEE AND OTHER STANDING BOARD COMMITTEES

RESOLVED, by the Peninsula Clean Energy Authority of the County of San Mateo, State of California, that

WHEREAS, the Board of the Peninsula Clean Energy Authority approved a policy on the selection of the Chair and Vice Chair and appointment to the Executive Committee and other standing Board Committees on January 25, 2018, identified as Policy #16, and

WHEREAS, the Board of the Peninsula Clean Energy Authority elected its third Board Chair and Vice Chair on February 25, 2021, and

WHEREAS, the Board of the Peninsula Clean Energy Authority approved modifications of Policy #16 on January 24, 2019, increasing membership of the Executive Committee and Audit and Finance Committee to ease the Board Committees' ability to reach a quorum; and

WHEREAS, Policy 16 currently provides for a process that results in selection of these Committees in March; and

WHEREAS, Council-members are often elected in November; and

WHEREAS, modifications of Policy #16 are advised to enable Committee appointments to be made sooner to avoid lengthy periods where the Committees operate with less than a full complement of members.

NOW, THEREFORE, IT IS HEREBY DETERMINED AND ORDERED that the Board approves the revised policy on the Selection of the Chair and Vice Chair and appointment to the Executive Committee and other standing Board Committees dated March 25, 2021.

* * * * * *



Policy Number: 16

Original Adoption Date: January 25, 2018

Revised: January 24, 2019 Revised: March 25, 2021

Subject: Selection of the Chair and Vice Chair and appointment to the Executive Committee and other standing Board Committees.

Policy: Policy governing: (i) the appointment of the Chair and Vice-Chair; (ii) the make up of, and appointment process for, the Executive Committee, the Audit Committee, and the Finance Committee; and (iii) the maximum term length, if any, of the Chair, Vice-Chair, and members the Executive Committee, and the Audit and Finance Committee.

Chair and Vice-Chair

The Chair and Vice-Chair will be elected by the Board to serve one year terms. The Chair and Vice-Chair will each be subject to a consecutive term limit of three years. That means that a member may serve as Chair for up to three consecutive one-year terms. However, after a break in service, a member may again serve as Chair. The same rules apply to the position of Vice-Chair. A member may consecutively serve three years as Vice-Chair and then three years as Chair. There is a general expectation that Vice-Chairs will serve as Chair following their term as Vice-Chair. However, ultimately, the decision whom to elect is at the discretion of the Board.

With respect to the process and timing for nomination and election of the Chair and Vice-Chair, every January the Chair will appoint an *ad hoc* nominating committee made up of between three and five Board members, each of whom has indicated to the Chair an intention not to seek the positions of Chair or Vice-Chair. At the January meeting of the Board, the Chair will inform the Board of the composition of the nominating committee and invite interested members to notify the nominating committee of their desire to serve as either Chair or Vice-Chair. Prior to the February meeting of the Board, the nominating committee shall confer and prepare a recommendation regarding who should serve as Chair and Vice-Chair for that year. At the February Board meeting, that recommendation shall be submitted to the Board and the Board shall take action thereon.

Executive Committee

The Executive Committee will consist of up to nine members, two of whom will be the Chair and Vice-Chair and up to seven of whom will be separately elected by the Board to serve one-year terms. The Chair of the Board shall also serve as the Chair of the Executive Committee. The Vice-Chair of the Board shall also serve as the Vice-Chair of the Executive Committee. Members of the Executive Committee will not be subject to term limits. With respect to the process and timing for nomination and election of the Executive

Committee, the Chair elected in February will, in consultation with the Vice-Chair,

recommend to the Board at its March meeting a slate of up to seven Executive Committee members. The Board will be asked to cast a vote either for or against the entire slate at the March Board meeting. In the event the Board does not approve the slate, any Board members may nominate individual members to the Executive Committee or the Board may direct the Chair to return at the April Board meeting with a new slate. If there is an interim vacancy on the Executive Committee, the Chair and Vice Chair are authorized to fill that vacancy until the new slate is approved by the Board.

Audit and Finance Committee

The Audit and Finance Committee will consist of up to five members elected by the Board to serve one-year terms. Members of the Audit and Finance Committee will not be subject to term limits.

With respect to the process and timing for nomination and election of the Audit and Finance Committee, the Chair elected in February will, in consultation with the Vice-Chair, recommend to the Board at its March meeting a slate of up to five Audit and Finance Committee members. The Board will be asked to cast a vote either for or against the entire slate at the March Board meeting. In the event the Board does not approve the slate, any Board members may nominate individual members to the Audit and Finance Committee or the Board may direct the Chair to return at the April Board meeting with a new slate. Annually, the Audit and Finance Committee will elect a Chair of the Audit and Finance Committee at their first meeting following the election of the slate. If there is an interim vacancy on the Audit and Finance Committee, the Chair and Vice Chair are authorized to fill that vacancy until the new slate is approved by the Board.



PENINSULA CLEAN ENERGY AUTHORITY JPA Board Correspondence

DATE: March 15, 2021

BOARD MEETING DATE: March 25, 2021

SPECIAL NOTICE/HEARING: None

VOTE REQUIRED: Majority Present

TO: Honorable Peninsula Clean Energy Authority Board of Directors

FROM: Leslie Brown, Director of Customer Care

SUBJECT: Authorize an adjustment in Peninsula Clean Energy's (PCE's) rates to

maintain a 5% discount in generation charges for ECOplus compared

to PG&E

RECOMMENDATION:

Approve a Resolution to adjust Peninsula Clean Energy's ECOplus rates effective April 1, 2021 to reflect a net 5% discount relative to March 1, 2021 PG&E rates.

BACKGROUND:

PG&E filed a rate update that took effect on March 1, 2021 that incorporated rate design and revenue requirement changes approved in PG&E's 2020 General Rate Case Phase 1. The changes in the March 1, 2021 rates by PG&E were slightly different than what we expected; we were expecting increases in both the PCIA and Generation rates from PG&E but the Generation rate increases ended up being slightly lower than anticipated. The net result of this requires PCE to lower rates again to maintain the net 5% discount value proposition to customers on ECOplus.

Included in this update is an increase to PG&E's generation rates by a weighted average of 1.8% and an increase to the PCIA rates by 8%. In order to provide our customers a discount to PG&E's generation service, we factor both the PCIA and PG&E generation rates into our rate-making calculations. To continue to provide our customers the value proposition of a 5% discount to PG&E's generation service, we would need to decrease our rates overall by a weighted average of 2.3%.

In addition to the revenue requirement changes, PG&E is transitioning all eligible Commercial, Industrial, and Agricultural customers to new Time-of-Use rate schedules ("B" rates) that align the Peak period (most expensive rates) between 4-9 pm. The transition to the new "B" rates for Commercial customers has been happening gradually since November 2019, but any customer that has not yet voluntarily transitioned will be moving over to these new rates throughout March 2021.



The customers that will not be transitioning to the new Time-of-Use rates are those taking service on legacy NEM grandfathered rates or have an older meter that has not yet been upgraded to handle TOU billing. There are only around 320 of those customers in our territory. They will retain their existing rate schedules but have a much different impact to their rates than those transitioning to the "B" rates. PG&E has flattened the difference between Time-of-Use periods by lowering the Peak period rates and increasing the Off-Peak period rates. Staff became aware of this change when we were able to review the new tariff sheets from PG&E published at the end of February. We are in the process of doing a separate outreach to our largest customers that have accounts on these legacy NEM schedules to help inform them of this change, since the shift in the Peak and Off-Peak differentials is pretty significant and the change has not yet been broadly communicated by PG&E.

DISCUSSION:

Staff has been working closely with Calpine to calculate, program and test new rates upon Board approval to move forward with the proposal to maintain the 5% net discount on generation rates. If approved, new rates maintaining the 5% discount are set to go into effect starting April 1,2021.

FISCAL IMPACT:

This action will ensure that PCE is able to continue the 5% discount compared to PG&E for PCE's ECOplus rates. Decreasing rates will lower overall revenue for PCE in 2021, however the projected impact of this action is within the range of scenarios evaluated by staff and existing financial reserves are currently sufficient to maintain this discount for customers.

STRATEGIC PLAN:

Adjusting PCE rates to maintain the net 5% discount value proposition is consistent with PCE's goal to provide customers with cleaner electricity at a lower cost than what would otherwise be provided by PG&E.

PENINSULA CLEAN ENERGY AUTHORITY, COUNTY OF SAN MATEO, STATE OF CALIFORNIA

* * * * * *

RESOLUTION AUTHORIZING THE CHIEF EXECUTIVE OFFICER TO ADJUST PENINSULA CLEAN ENERGY'S RATES IN ORDER TO MAINTAIN A 5% DISCOUNT IN GENERATION CHARGES AS COMPARED TO PG&E

RESOLVED, by the Peninsula Clean Energy Authority of the County of San Mateo, State of California ("Peninsula Clean Energy" or "PCE"), that

WHEREAS, the Peninsula Clean Energy Authority ("PCEA") was formed on February 29, 2016 as a Community Choice Aggregation program ("CCA"); and

WHEREAS, the Board has established a set of strategic goals to guide PCE, including maintaining a cost-competitive electric-generation rate for County residents and businesses; and

WHEREAS, on March 1, 2021, PG&E implemented adjustments to both the Power Charge Indifference Adjustment (PCIA) and its own generation rates; and

WHEREAS, PG&E's rate changes necessitate changes to PCE's rates in order to maintain a net 5% discount in generation charges

NOW, THEREFORE, IT IS HEREBY DETERMINED AND ORDERED that the Board authorizes the Chief Executive Officer to implement adjustments to Peninsula Clean Energy's ECOplus rates, in order to maintain a net 5% discount in generation charges compared to PG&E, effective April 1, 2021.

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PENINSULA CLEAN ENERGY AUTHORITY JPA Board Correspondence

DATE: March 12, 2021

BOARD MEETING DATE: March 25, 2021

SPECIAL NOTICE/HEARING: None VOTE REQUIRED: None

TO: Honorable Peninsula Clean Energy Authority Board of Directors

FROM: Karen Janowski, Director of Marketing and Community Affairs &

Tj Carter, Marketing Specialist

SUBJECT: Review of Schools Engagement Efforts

BACKGROUND:

Peninsula Clean Energy's Marketing Team has been implementing a range of engagement efforts with schools and youth.

DISCUSSION:

Peninsula Clean Energy is actively engaging administrators, teachers, and students at all levels of education in environmental literacy with partnerships with the San Mateo County Office of Education, San Mateo County Office of Sustainability, Citizens Environmental Council of Burlingame, and San Mateo County Community College District. To date, our efforts have reached 10 local administrators, 49 teachers, and 1,780+ students.

The following is an update of activities that are a part of Peninsula Clean Energy's strategy to promote environmental literacy:

- Energy Dashboard Pilot
- One Planet Schools Challenge Sponsorship
- Youth Climate Ambassadors Leadership Program
- Energize Colleges Program
- San Mateo County Environmental Learning Collaborative (SMELC)

A number of these programs required significant changes given the COVID-19 pandemic.

Energy Dashboard Pilot (Completed)

Launched in 2019, San Carlos School District completed their Energy Dashboard project in 2020. The Dashboard visually displays utility usage data including waste, water, and energy. The launch of the Energy Dashboard was impacted by the COVID-19 quarantine. The rollout was to be linked with a Sustainability Competition using the

Dashboard to track results. In place of the Competition, San Carlos held an online Sustainability Class for grades 3-8 where 20 students were introduced to the Dashboard. San Carlos School District hopes to hold the Sustainability Competition next year. Additionally, the San Mateo County Office of Education developed activity worksheets for use with the energy data displayed by the Dashboard for grades K-2, 3-5, and 6-8.

Staff plans to discontinue this pilot program, utilizing funding towards programs that reach a broader audience like the Youth Climate Ambassadors Program, SMELC Clean Energy Teacher Fellowship, and SMELC Administrator Fellowship.

Energy Dashboard Pilot	Number of Students Reached	Amount	
2019-20 Energy Dashboard Pilot	20	\$34,500	
Est. Total to Date	20	\$34,500	

2020 One Planet Schools Challenge Sponsorship (Ongoing)

Peninsula Clean Energy awarded five \$500 projects to local sustainability leaders who are driving environmental change in their school community. One Planet Schools Challenge (OPSC) identifies leaders who are doing meaningful sustainability work at districts and sites and recognizes them for their impact on the greater community. This recognition and awards program fosters a culture of sustainability in school communities across the county by providing a structure and roadmap for achieving the vision of whole-school sustainability integration. The award funds are put towards implementing the next steps of the project at the school.

Staff plans to continue funding these awards in 2021 for \$2,500.

One Planet Schools Challenge Award	Number of Awards	Sponsorship Amount
2021 OSPC Sponsorship Award (anticipated)	5	\$2,500
2020 OSPC Sponsorship Award	5	\$2,500
2019 OPSC Sponsorship Award	2	\$1,000
Est. Total to Date		\$6,000

Youth Climate Ambassadors Leadership Program (YCA) (Ongoing)

Peninsula Clean Energy provided \$26,000 to support the 2020 Youth Climate Ambassadors Leadership program, in partnership with the County's Office of Education, Office of Sustainability, and Citizens Environmental Council of Burlingame. The YCA program is a yearlong youth leadership program that supports ninth to eleventh grade students in becoming environmental sustainability change-makers in their schools and the greater community. Specifically, the funding was used to provide income-qualified students with a transportation stipend, and the full cohort of students with a program stipend upon completion of the program. 50 students from across the county successfully completed the 2020 program.

Peninsula Clean Energy has committed \$55,000 to fund the 2021 YCA program. Currently, 75 students are participating in the program. Funds are allotted to provide students the \$500 program stipend upon completion of the program, and \$12,500 of mini-grant funds to help students launch community energy projects.

Youth Climate Ambassadors Program	Number of Students	Program Amount	
2021 YCA Program	75	\$55,000	
2020 YCA Program	50	\$26,000	
Est. Total to Date	125	\$81,000	

Energize Colleges Program (In Progress)

Peninsula Clean Energy has provided \$92,337 to the San Mateo County Community College District (SMCCCD) to support a professional development program with community college students from January 2021 – May 2021. Specifically, funding is provided to SMCCCD to hire one (1) Energy Energy Innovations who will lead the recruitment of ten (10) community college student interns placed at local host organizations throughout San Mateo County. Each intern will complete a project focused on reducing greenhouse gas emissions.

The current list of local host organizations include:

Menlo Spark: 1 internActerra: 2 internsColtura: 1 intern

San Mateo County Office of Education: 2 interns
San Mateo County Office of Sustainability: 1 intern

• El Concilio: 1 intern

• Climate Resilient Communities: 1 intern

San Mateo County Community College District Office of Sustainability: 1 intern

Energize Colleges Program	Number of Students	Program Amount
2020-21 Energize Colleges Program	10	\$92,337
Est. Total to Date		\$92,337

San Mateo County Environmental Learning Collaborative (SMELC) (Pending Board Approval)

Peninsula Clean Energy has provided a total of \$182,000 to the San Mateo County Office of Education's San Mateo County Environmental Learning Collaborative which offers a series of paid professional development fellowships for teachers and administrators in environmental topics. Peninsula Clean Energy has specifically funded the SMELC Clean Energy Teacher Fellowship and the SMELC Administrator Fellowship.

Staff is bringing a funding proposal for a 2021-22 SMELC programs to the Board of Directors at the March 25, 2021 meeting.

SMELC Clean Energy Teacher Fellowship

Peninsula Clean Energy provided \$120,000 to support the <u>2020-21 Clean Energy</u> <u>Teacher Fellowship</u> that helps teachers build capacity for developing lesson plans aimed at increasing environmental literacy, academic success, and civic engagement for a carbon free energy future. The funds included program administration funding, development coaches, and program stipends for teachers. The 2020-21 Clean Energy Teacher program reached <u>36 teachers</u> and 695 students (and counting).

Peninsula Clean Energy previously provided \$25,000 in grant funds for a 2019-20 pilot year of the SMELC Clean Energy Teacher Fellowship. Thirteen teachers completed the program and developed clean energy units of study. The pilot reached 970 students.

SMELC Clean Energy Teacher	Number of	Number of	Amount
Fellowship	Teachers	Students Reached	
2020-21 Clean Energy Teacher	36	*695	\$120,000
Fellowship			
2019-20 Clean Energy Teacher	13	970	\$25,000
Fellowship			
Est. Total to Date	49	1,665	\$145,000

^{*}At the time of this memo teachers were still submitting the total count of students reached.

SMELC Administrator Fellowship

Peninsula Clean Energy provided \$37,500 to support the <u>2020-21 Administrator</u> <u>Fellowship Program</u>. The funding included \$12,500 for program administration support and \$25,000 for program stipends. The Fellowship supports educational leaders to successfully drive environmental transformation across their school community and meet the increasing curricular and facilities mandates related to environmental literacy/sustainability and climate resiliency. Ten administrators from across San Mateo County ultimately completed the fellowship.

SMELC Administrator Fellowship	Number of Admins.	Amount
2020-21 Administrator Fellowship	10	\$37,500
Est. Total to Date	10	\$37,500



PENINSULA CLEAN ENERGY JPA Board Correspondence

DATE: March 10, 2021

BOARD MEETING DATE: March 25, 2021

SPECIAL NOTICE/HEARING: None

VOTE REQUIRED: Majority Present

TO: Honorable Peninsula Clean Energy Authority Board of Directors

FROM: Jan Pepper, Chief Executive Officer, Peninsula Clean Energy

Rafael Reyes, Director of Energy Programs

SUBJECT: Contract with Richard Heath and Associates (RHA) for Implementation of

Income-Qualified Home Upgrade & Electrification Program

RECOMMENDATION

Delegate authority to the Chief Executive Officer to execute contract with Richard Heath & Associates (RHA) up to \$2,000,000 over two years to implement the Income-Qualified Home Upgrade & Electrification Program.

BACKGROUND

Peninsula Clean Energy's mission is to reduce greenhouse gas (GHG) emissions in San Mateo County. California's goal is to be carbon neutral by 2045 and PCE aims to support the County in meeting that goal through investment in local community programs. Natural gas usage in buildings accounts for 20% of directly inventoried GHG emissions in the County. However, based on available research, natural gas emissions may be nearly double metered usage when accounting for methane leakage in the gas supply chain. Reducing GHG from existing building stock is critical in achieving decarbonization in San Mateo County.

In September 2018, the Board approved the PCE Program Roadmap, which identifies programs for 2019 and beyond to include measures on building electrification. In January 2019, the Board approved a technical assistance program for local governments for the development of local building codes, or "reach codes", to deliver increased electric vehicle readiness and all-electric buildings in new construction. In January 2020, the Board approved an extension and enhancement of the technical assistance program for new construction, and a new building electrification consumer awareness program.

In May 2020, the Board approved a four-year \$6.1 million Existing Building Electrification plan for existing buildings covering appliance incentives, home upgrades for low-income households and supporting program elements including innovation pilots, administration and other needs.

The initial programs outlined as part of the Existing Building Electrification plan were:

1. Income-Qualified Homes Upgrade Program

Building off the existing "Healthy Homes" low-income turnkey home upgrade pilot (implemented as part of the 2018 Community Pilots program), this program would provide no-cost home repairs and upgrades, energy efficiency, and electrification measures to low-income single-family homes. The contract to implement this program would be with the consultancy firm RHA. The program and contract are described in more detail in the discussion section below.

2. Heat Pump Water Heater Program

This program provides rebates to customers in single family homes to replace gas water heaters with an electric heat pump water heater (HPWH). The PCE program is integrated with the BayREN's Home+ program, which offers additional incentives. In June 2020, the Board approved a contract with CLEAResult to administer this program and the program was launched in January 2021.

3. Harvest Thermal Technology Pilot

This program will pilot a new innovative technology from Harvest Thermal Inc. that combines residential space and water heating into a unified heat pump electric system with a single water storage tank to potentially enable electrification at a lower capital and operating cost than undertaking two separate retrofits. In November 2020, the Board approved contract with Harvest Thermal to execute the pilot.

DISCUSSION

Staff is seeking approval by the Board on the contract with RHA to implement the Income-Qualified Home Upgrade Program, with authorization for refinement by the CEO.

This program will provide a turnkey service for no-cost home repairs and upgrades, energy efficiency, and electrification measures for low-income single-family residences with critical home needs. While there are existing energy efficiency and weatherization programs currently available to low-income households, such programs do not fund electrification or non-energy health-improving measures at all or only fund them partially. PCE's program aims to bridge these funding gaps for its residents and leverage existing programs' funds to deliver substantial home improvements. Homes will be assessed to determine and prioritize all possible measures that could be installed with PCE funds and other programs' funds. To receive PCE funds, at least one electrification measure (i.e. switching a methane gas appliance with an electric equivalent) must be implemented in each home. Electrification measures will be implemented by union contractors.

Following Board approval of the Existing Building Electrification plan, a competitive process was run in late 2020 for an implementer for the income-qualified home upgrade program. The selected implementer would be tasked with helping PCE finalize program design elements and overseeing all aspects of the PCE program once launched including outreach, installation management, contractor payments for PCE-funded measures, coordination with other program's implementers and/or contractors, and homeowner support.

PCE received proposals from three vendors and their corresponding bid partners. With the assistance from a member of the Citizens Advisory Committee (CAC), staff interviewed and evaluated all proposing teams. RHA was selected as the preferred vendor due to their experience administering and implementing energy efficiency, weatherization, and electrification programs for low-income and underserved communities. This includes overseeing the Energy Savings Assistance Program for most of PG&E's service territory, including in San Mateo County and Merced County (where the City of Los Banos is) and executing an electrification pilot for low-income households in the San Joaquin Valley for PG&E. Additionally, RHA is partnering with El Concilio of San Mateo County and Bright Ideas Construction, community-based organizations in San Mateo County and Merced County respectively, on the outreach and installation of non-electrification measures through the program. Lastly, RHA is partnering with five union contractors to install electrification measures—three for San Mateo County projects and two for Los Banos projects.

As part of the contract, RHA would:

- Jointly with PCE, finalize the program design including program eligibility requirements, policies and procedures, list of eligible measures, and lead the development of technical design guidelines.
- Lead outreach for the program with subcontractor partners El Concilio of San Mateo County and Bright Ideas Construction for San Mateo County and the City of Los Banos, respectively.
- Oversee installation and contractor payment of PCE-funded measures. Electrification measures would be installed by union contractors.
- Provide enrollment and education support to homeowners, including assisting customer enroll in other programs they qualify for.

The proposed contract with RHA is for up to \$2,000,000 for two and a half years. \$1,300,000 of this is reserved for direct installation costs (including equipment and labor), which is intended to provide home upgrades for 200 homes at an average of \$6,500 per home. The remaining sum up to \$700,000 would be for program design support, customer outreach and education, and ongoing program administration (which includes in-person site visits to all homes served by the program). The program would also leverage funding from other existing energy efficiency programs for low-income households; at least one but as many as feasible in each home.

PCE staff is recommending for approval the attached draft contract with RHA pending refinement by the CEO.

STRATEGIC PLAN

Goal 3 – Community Energy Programs, Objective A:

• Key Tactic 4: Establish preference for all-electric building design and appliance replacement among consumers and building stakeholders

Goal 3 – Community Energy Programs, Objective B:

- Key Tactic 1: Invest in programs that benefit underserved communities
- Key Tactic 3: Support workforce development programs in the County

RESOLUTION NO.

PENINSULA CLEAN ENERGY AUTHORITY, COUNTY OF SAN MATEO, STATE OF CALIFORNIA

* * * * * *

RESOLUTION DELEGATING AUTHORITY TO THE CHIEF EXECUTIVE OFFICER
TO EXECUTE AN AGREEMENT WITH RICHARD HEATH & ASSOCIATES, INC.

("RHA") TO IMPLEMENT THE LOW-INCOME HOME UPGRADE AND

ELECTRIFICATION PROGRAM IN AN AMOUNT NOT TO EXCEED \$2,000,000 FOR
A THREE YEAR TERM FROM APPROXIMATELY APRIL 2021 THROUGH

SEPTEMBER 2023

RESOLVED, by the Peninsula Clean Energy Authority of the County of San Mateo, State of California, that

WHEREAS, PCE was formed on February 29, 2016; and

WHEREAS, reducing greenhouse gasses to reduce the adverse public wellbeing and economic impacts of climate change is an organizational priority for PCE; and

WHEREAS, natural gas usage in buildings accounts for 20% of directly inventoried GHG emissions within the County; and

WHEREAS, PCE provides low-carbon electricity that can power appliances for all building needs; and

WHEREAS, facilitating the replacement of natural gas appliances with electric appliances in existing buildings to reduce greenhouse gasses is part of PCE's program roadmap approved by the Board; and

WHEREAS, PCE Board approved a \$6,100,000 over four years for an existing building electrification plan on May 2020, which included a \$2,000,000 Low-Income Home Upgrade and Electrification Program to provide a turnkey service for no-cost home repairs and upgrades and electrification for low-income single-family homes; and

WHEREAS, PCE issued a request for proposals on September 23, 2020 seeking proposals to administer and implement the Low-Income Home Upgrade and Electrification program, including program design support, outreach and education, and installation management; and

WHEREAS, Richard Heath & Associates, Inc. ("RHA") was selected for their experience with energy efficiency and electrification programs for low-income and underserved communities; and

WHEREAS, PCE staff and RHA have negotiated and agreed on the core terms of an agreement with a term of approximately April 2021 through September 2023 in an amount not to exceed \$2,000,000;

NOW, THEREFORE, IT IS HEREBY DETERMINED AND ORDERED that the Board delegates authority to the Chief Executive Officer to finalize and execute the agreement with RHA in an amount not to exceed \$2,000,00 over three years and in a form approved by the General Counsel.

* * * * * *

AGREEMENT BETWEEN THE PENINSULA CLEAN ENERGY AUTHORITY AND RICHARD HEATH & ASSOCIATES, INC.

This Agreement is entered into this [day] of March, 2021, by and between the Peninsula Clean Energy Authority, a joint powers authority of the state of California, hereinafter called "PCEA," and Richard Heath & Associates, Inc. hereinafter called "Consultant."

* * *

Whereas, pursuant to Section 6508 of the Joint Exercise of Powers Act, PCEA may contract with independent contractors for the furnishing of services to or for PCEA; and

Whereas, it is necessary and desirable that Contractor be retained for the purpose of implementing a home upgrade and electrification program for income-qualifying homes.

Now, therefore, it is agreed by the parties to this Agreement as follows:

1. <u>Exhibits and Attachments</u>

The following exhibits and attachments are attached to this Agreement and incorporated into this Agreement by this reference:

Exhibit A—Services
Exhibit B—Payments and Rates

2. Services to be performed by Contractor

In consideration of the payments set forth in this Agreement and in Exhibit B, Contractor shall perform services for PCEA in accordance with the terms, conditions, and specifications set forth in this Agreement and in Exhibit A.

3. Payments

In consideration of the services provided by Contractor in accordance with all terms, conditions, and specifications set forth in this Agreement and in Exhibit A, PCEA shall make payment to Contractor based on the rates and in the manner specified in Exhibit B. PCEA reserves the right to withhold payment if PCEA determines that the quantity or quality of the work performed is unacceptable. In no event shall PCEA's total fiscal obligation under this Agreement exceed two million dollars (\$2,000,000). In the event that the PCEA makes any advance payments, Contractor agrees to refund any amounts in excess of the amount owed by the PCEA at the time of contract termination or expiration.

4. Term

Subject to compliance with all terms and conditions, the term of this Agreement shall be from April 1, 2021 through September 30, 2023.

5. <u>Termination; Availability of Funds</u>

This Agreement may be terminated by Consultant or by the Chief Executive Officer of the PCEA or his/her designee at any time without a requirement of good cause upon thirty (30) days' advance written notice to the other party. Subject to availability of funding, Consultant shall be entitled to receive payment for work/services provided prior to termination of the Agreement. Such payment shall be that prorated portion of the full payment determined by comparing the work/services actually completed to the work/services required by the Agreement.

PCEA may terminate this Agreement or a portion of the services referenced in the Attachments and Exhibits based upon the unavailability of Federal, State, or PCEA funds by providing written notice to Consultant as soon as is reasonably possible after PCEA learns of said unavailability of outside funding.

6. <u>Intellectual Property and Ownership of Work Product</u>

PCEA shall and does own all titles, rights, and interests in all materials, tangible or not, created in whatever medium pursuant to this Agreement, including without limitation publications, promotional or educational materials, reports, manuals, specifications, drawings and sketches, schematics, marks, logos, graphic designs, notes, matters and combinations therefore, and all forms of intellectual property ("Work Products") created by Consultant and any subcontractors under this Agreement. Consultant hereby assigns all titles, rights, and interests in all Work Products to PCEA. At the end of this Agreement, or in the event of termination, all Work Products shall be promptly delivered to PCEA.

Consultant may not sell, transfer, or permit the use of any Work Products without the express written consent of PCEA. Consultant shall not dispute, directly or indirectly, PCEA's exclusive right and title to the Work Products, nor the validity of the intellectual property embodied therein.

Consultant may (1) retain its rights to and ownership of pre-existing or open-source materials and/or (2) retain one copy of Work Products for archival use, but in either instance must notify PCEA and identify any such materials in writing prior to the commencement of work under this Agreement.

7. Relationship of Parties

Consultant agrees and understands that the work/services performed under this Agreement are performed as an independent Consultant and not as an employee of PCEA and that neither Consultant nor its employees acquire any of the rights, privileges, powers, or advantages of PCEA employees.

8. Hold Harmless

a. **General Hold Harmless**

Consultant shall indemnify and save harmless PCEA and its officers, agents, employees, and servants from all claims, suits, or actions of every name, kind, and description resulting from this Agreement, the performance of any work or services required of Consultant under this Agreement, or payments made pursuant to this Agreement brought for, or on account of, any of the following:

- (A) injuries to or death of any person, including Consultant or its employees/officers/agents;
- (B) damage to any property of any kind whatsoever and to whomsoever belonging;
- (C) any sanctions, penalties, or claims of damages resulting from Consultant's failure to comply, if applicable, with the requirements set forth in the Health Insurance Portability and Accountability Act of 1996 (HIPAA) and all Federal regulations promulgated thereunder, as amended; or
- (D) any other loss or cost, including but not limited to that caused by the concurrent active or passive negligence of PCEA and/or its officers, agents, employees, or servants. However, Consultant's duty to indemnify and save harmless under this Section shall not apply to injuries or damage for which PCEA has been found in a court of competent jurisdiction to be solely liable by reason of its own negligence or willful misconduct.

The duty of Consultant to indemnify and save harmless as set forth by this Section shall include the duty to defend as set forth in Section 2778 of the California Civil Code.

b. Release and Hold Harmless in Customer/Subcontractors Contracts

PCEA shall have the opportunity to review, prior to their execution, any contracts executed by Consultant to implement this Agreement. In addition, unless waived in advance in writing by PCEA, any such contracts shall contain the following terms:

c. Release of Claims Against, and Hold Harmless of, Peninsula Clean Energy Authority

Customer/Subcontractor also discharges and releases the Peninsula Clean Energy Authority (PCEA) and its officers, employers, employees, and agents from and against any and all claims, demands, liabilities, obligations, damages or chose in action, legal or equitable, of whatever kind or nature, including negligence by PCEA, in which Customer/Subcontractor, and Customer/Subcontractor's successors in interest, heirs, estates or personal representatives, or family members, now may have or assert, or may have had in the past or may have in the future, against PCEA as the result of, based upon, arising out of, or connected with PCEA's involvement with the Project. Customer/Subcontractor is on notice of and hereby specifically and expressly waives the provisions of California Civil Code § 1542, which provides that a "general release does not extend to claims which the creditor does not know or suspect to exist in his favor at the time of executing the release, which if known by him must have materially affected his settlement with the debtor."

Customer/Subcontractor also agrees to indemnify and hold harmless PCEA from any and all claims, actions, suits, procedures, costs, expenses, damages, and liabilities, including attorney's fees and costs, brought as a result of PCEA's involvement with the Project, and to reimburse PCEA for any such expenses incurred.

For purposes of this provision, PCEA is hereby intended to be a third-party beneficiary of any and all contracts executed by Consultant to implement this Agreement, pursuant to California Civil Code § 1559.

9. <u>Assignability and Subcontracting</u>

Consultant shall not assign this Agreement or any portion of it to a third party or subcontract with a third party to provide services required by Consultant under this Agreement without the prior written consent of PCEA. Any such assignment or subcontract without PCEA's prior written consent shall give PCEA the right to automatically and immediately terminate this Agreement without penalty or advance notice.

10. Payment of Permits/Licenses

Consultant bears responsibility to obtain any license, permit, or approval required from any agency for work/services to be performed under this Agreement at Consultant's own expense prior to commencement of said work/services. Failure to do so will result in forfeit of any right to compensation under this Agreement.

11. W-9 Form and Submission of Invoices

Invoices shall only be submitted by electronic form by sending an email to the PCEA project contact's email address. Consultant shall submit a completed W-9 form electronically to the same email addresses. Consultant understands that no invoice will be paid by PCEA unless and until a W-9 Form is received by PCE.

12. Insurance

a. General Requirements

Consultant shall not commence work or be required to commence work under this Agreement unless and until all insurance required under this Section has been obtained and such insurance has been approved by PCEA, and Consultant shall use diligence to obtain such insurance and to obtain such approval. Consultant shall furnish PCEA with certificates of insurance evidencing the required coverage, and there shall be a specific contractual liability endorsement extending Consultant's coverage to include the contractual liability assumed by Consultant pursuant to this Agreement. These certificates shall specify or be endorsed to provide that thirty (30) days' notice must be given, in writing, to PCEA of any pending change in the limits of liability or of any cancellation or modification of the policy.

b. Workers' Compensation and Employer's Liability Insurance

Consultant shall have in effect during the entire term of this Agreement workers' compensation and employer's liability insurance providing full statutory coverage. In signing this Agreement, Consultant certifies, as required by Section 1861 of the California Labor Code, that (a) it is aware of the provisions of Section 3700 of the California Labor Code, which require every employer to be insured against liability for workers' compensation or to undertake self-insurance in accordance with the provisions of the Labor Code, and (b) it will comply with such provisions before commencing the performance of work under this Agreement.

c. <u>Liability Insurance</u>

Consultant shall take out and maintain during the term of this Agreement such bodily injury liability and property damage liability insurance as shall protect Consultant and all of its employees/officers/agents while performing work covered by this Agreement from any and all claims for damages for bodily injury, including accidental death, as well as any and all claims for property damage which may arise from Consultant's operations under this Agreement, whether such operations be by Consultant, any subcontractor, anyone directly or indirectly employed by either of them, or an agent of either of them. Such insurance shall be combined single limit bodily injury and property damage for each occurrence and shall not be less than the amounts specified below:

Yes	Comprehensive General Liability	\$1,000,000
	(Applies to all agreements)	
Yes/No	Motor Vehicle Liability Insurance (Yes, if motor vehicle is used in performing services)	\$1,000,000
Yes/No	Professional Liability Insurance (Yes, if Consultant is a licensed professional)	\$1,000,000

PCEA and its officers, agents, employees, and servants shall be named as additional insured on any such policies of insurance, which shall also contain a provision that (a) the insurance afforded thereby to PCEA and its officers, agents, employees, and servants shall be primary insurance to the full limits of liability of the policy and (b) if the PCEA or its officers, agents, employees, and servants have other insurance against the loss covered by such a policy, such other insurance shall be excess insurance only.

In the event of the breach of any provision of this Section, or in the event any notice is received which indicates any required insurance coverage will be diminished or canceled, PCEA, at its option, may, notwithstanding any other pro vision of this Agreement to the contrary, immediately declare a material breach of this Agreement and suspend all further work and payment pursuant to this Agreement.

13. Compliance With Laws

All services to be performed by Consultant pursuant to this Agreement shall be performed in accordance with all applicable Federal, State, County, and municipal laws, ordinances, and regulations, including but not limited to the Health Insurance Portability and Accountability Act of 1996 (HIPAA) and the Federal Regulations promulgated thereunder, as amended (if applicable), the Business Associate requirements set forth in Attachment H (if attached), the Americans with Disabilities Act of 1990, as amended, and Section 504 of the Rehabilitation Act of 1973, which prohibits discrimination on the basis of disability in programs and activities receiving any Federal or County financial assistance. Such services shall also be performed in accordance with all applicable ordinances and regulations, including but not limited to appropriate licensure, certification regulations, provisions pertaining to confidentiality of records, and applicable quality assurance regulations. In the event of a conflict between the terms of this Agreement and any applicable State, Federal, County, or municipal law or regulation, the requirements of the applicable law or regulation will take precedence over the requirements set forth in this Agreement.

Consultant will timely and accurately complete, sign, and submit all necessary documentation of compliance.

14. Non-Discrimination and Other Requirements

a. General Non-discrimination

No person shall be denied any services provided pursuant to this Agreement (except as limited by the scope of services) on the grounds of race, color, national origin, ancestry, age, disability (physical or mental), sex, sexual orientation, gender identity, marital or

domestic partner status, religion, political beliefs or affiliation, familial or parental status (including pregnancy), medical condition (cancer-related), military service, or genetic information.

b. **Equal Employment Opportunity**

Consultant shall ensure equal employment opportunity based on objective standards of recruitment, classification, selection, promotion, compensation, performance evaluation, and management relations for all employees under this Agreement. Consultant's equal employment policies shall be made available to PCEA upon request.

c. Section 504 of the Rehabilitation Act of 1973

Consultant shall comply with Section 504 of the Rehabilitation Act of 1973, as amended, which provides that no otherwise qualified individual with a disability shall, solely by reason of a disability, be excluded from the participation in, be denied the benefits of, or be subjected to discrimination in the performance of any services this Agreement. This Section applies only to Consultants who are providing services to members of the public under this Agreement.

d. Employee Benefits

With respect to the provision of benefits to its employees, Consultant shall ensure that employee benefits provided to employees with domestic partners are the same as those provided to employees with spouses.

e. <u>Discrimination Against Individuals with Disabilities</u>

The nondiscrimination requirements of 41 C.F.R. 60-741.5(a) are incorporated into this Agreement as if fully set forth here, and Consultant and any subcontractor shall abide by the requirements of 41 C.F.R. 60–741.5(a). This regulation prohibits discrimination against qualified individuals on the basis of disability and requires affirmative action by covered prime contractors and subcontractors to employ and advance in employment qualified individuals with disabilities.

f. History of Discrimination

Consultant must check one of the two following options, and by executing this Agreement, Consultant certifies that the option selected is accurate:

X No finding of discrimination has been issued in the past 365 days against Consultant by the Equal Employment Opportunity Commission, Fair Employment and Housing Commission, or any other investigative entity.

Finding(s) of discrimination have been issued against Consultant within the past 365 days by the Equal Employment Opportunity Commission, Fair Employment and Housing Commission, or other investigative entity. If this box is checked, Consultant shall provide PCEA with a written explanation of the outcome(s) or remedy for the discrimination.

g. Reporting; Violation of Non-discrimination Provisions

Consultant shall report to the Chief Executive Officer of PCEA the filing in any court or with any administrative agency of any complaint or allegation of discrimination on any of the bases prohibited by this Section of the Agreement or Section 13, above. Such duty shall include reporting of the filing of any and all charges with the Equal Employment Opportunity Commission, the Fair Employment and Housing Commission, or any other entity charged with the investigation or adjudication of allegations covered by this subsection within 30 days of such filing, provided that within such 30 days such entity has not notified Consultant that such charges are dismissed or otherwise unfounded. Such notification shall include a general description of the circumstances involved and a general description of the kind of discrimination alleged (for example, gender-, sexual orientation-, religion-, or race-based discrimination).

Violation of the non-discrimination provisions of this Agreement shall be considered a breach of this Agreement and subject the Consultant to penalties, to be determined by the Chief Executive Officer, including but not limited to the following:

- i. termination of this Agreement;
- ii. disqualification of the Consultant from being considered for or being awarded a PCEA contract for a period of up to 3 years;
- iii. liquidated damages of \$2,500 per violation; and/or
- iv. imposition of other appropriate contractual and civil remedies and sanctions, as determined by the Chief Executive Officer.

To effectuate the provisions of this Section, the Chief Executive Officer shall have the authority to offset all or any portion of the amount described in this Section against amounts due to Consultant under this Agreement or any other agreement between Consultant and PCEA.

15. Retention of Records; Right to Monitor and Audit

- (a) Consultant shall maintain all required records relating to services provided under this Agreement for three (3) years after PCEA makes final payment and all other pending matters are closed, and Consultant shall be subject to the examination and/or audit by PCEA, a Federal grantor agency, and the State of California.
- (b) Consultant shall comply with all program and fiscal reporting requirements set forth by applicable Federal, State, and local agencies and as required by PCEA.

(c) Consultant agrees upon reasonable notice to provide to PCEA, to any Federal or State department having monitoring or review authority, to PCEA's authorized representative, and/or to any of their respective audit agencies access to and the right to examine all records and documents necessary to determine compliance with relevant Federal, State, and local statutes, rules, and regulations, to determine compliance with this Agreement, and to evaluate the quality, appropriateness, and timeliness of services performed.

16. Merger Clause; Amendments

This Agreement, including the Exhibits and Attachments attached to this Agreement and incorporated by reference, constitutes the sole Agreement of the parties to this Agreement and correctly states the rights, duties, and obligations of each party as of this document's date. In the event that any term, condition, provision, requirement, or specification set forth in the body of this Agreement conflicts with or is inconsistent with any term, condition, provision, requirement, or specification in any Exhibit and/or Attachment to this Agreement, the provisions of the body of the Agreement shall prevail. Any prior agreement, promises, negotiations, or representations between the parties not expressly stated in this document are not binding. All subsequent modifications or amendments shall be in writing and signed by the parties.

17. Controlling Law; Venue

The validity of this Agreement and of its terms, the rights and duties of the parties under this Agreement, the interpretation of this Agreement, the performance of this Agreement, and any other dispute of any nature arising out of this Agreement shall be governed by the laws of the State of California without regard to its choice of law or conflict of law rules. Any dispute arising out of this Agreement shall be venued either in the San Mateo County Superior Court or in the United States District Court for the Northern District of California.

18. Notices

Any notice, request, demand, or other communication required or permitted under this Agreement shall be deemed to be properly given when both: (1) transmitted via facsimile to the telephone number listed below or transmitted via email to the email address listed below; and (2) sent to the physical address listed below by either being deposited in the United States mail, postage prepaid, or deposited for overnight delivery, charges prepaid, with an established overnight courier that provides a tracking number showing confirmation of receipt.

In the case of PCEA, to:

Name/Title: Jan Pepper, Chief Executive Officer

Address: 2075 Woodside Road, Redwood City, CA 94061

Telephone: 650-260-0100

Email: jpepper@peninsulacleanenergy.com

In the case of Consultant, to:

Name/Title: Cynthia Rafferty, CEO

Address: 590 W. Locust Ave, Suite 103

Telephone: (559) 573-3544

Email: cbrafferty@rhainc.com

19. <u>Electronic Signature</u>

PCEA and Consultant wish to permit this Agreement, and future documents executed pursuant to this Agreement, to be digitally signed in accordance with California law. Any party that agrees to allow digital signature of this Agreement may revoke such agreement at any time in relation to all future documents by providing notice pursuant to this Agreement.

20. No Recourse Against PCEA's Member Agencies

Consultant acknowledges and agrees that PCEA is a Joint Powers Authority, which is a public agency separate and distinct from its member agencies. All debts, liabilities, or obligations undertaken by PCEA in connection with this Agreement are undertaken solely by PCEA and are not debts, liabilities, or obligations of its member agencies. Consultant waives any recourse against PCEA's member agencies.

In agreement with this Agreement's terms, the parties, by their duly authorized representatives, affix their respective signatures:

PENINSULA CLEAN ENERGY AUTHORITY

By:	
Chief Executive Officer, Peninsula Clean	Energy Authority
Data	
Date:	
RICHARD HEATH AND ASSOCIATES, INC.	
Contractor's Signature	
Date:	

Exhibit A

In consideration of the payments set forth in Exhibit B, Consultant shall provide the following services:

Overview

Peninsula Clean Energy's (PCE) mission is to reduce greenhouse gas (GHG) emissions and reinvest in the communities it serves: San Mateo County and, starting 2022, the City of Los Banos. This program will provide a turnkey service for no-cost home repairs and upgrades, energy efficiency, and electrification measures for low-income single-family residences with critical home needs. While there are existing energy efficiency and weatherization programs currently available to low-income households, such programs do not fund electrification or non-energy health-improving measures at all or only fund them partially. PCE's program aims to bridge these funding gaps for its residents and leverage existing programs' funds to deliver substantial home improvements. Homes will be assessed to determine and prioritize all possible measures that could be installed with PCE funds and other programs' funds. To receive PCE funds, at least one electrification measure must be implemented in each home. Electrification measures will be implemented by union contractors.

Consultant is tasked with overseeing all aspects of the PCE program including outreach, installation management, contractor payments for PCE-funded measures, coordination with other program's implementers and/or contractors, and homeowner support.

Objectives

- 1. Serve at least 200 income-qualified single-family homes over two years.
- 2. Reach at least 2,000 homes likely qualified for the program through direct outreach such as mail, email, and phone.
- 3. Complete work in each home within 5 months from the time of enrollment, barring permitting delays where applicable.
- 4. Implement at least one electrification measure in each home.
- 5. Leverage at least one funding source, in addition to PCE, and as many as feasible in each home.
- 6. Deliver customer satisfaction of 90% or higher based on post-installation surveys.
- 7. Provide reductions in GHGs, gas/electricity net total energy savings, as well as health, comfort, and safety improvements in homes served.

Consultant Tasks

1 Administrative Tasks

Consultant shall provide the following:

1.1 Kickoff Meeting

Participate in a kickoff meeting with PCE to review objectives, budget, timeline, and administrative processes at a mutually determined time following contract execution. The kickoff shall include a detailed project plan prepared by the Consultant.

1.2 Monthly Progress Report & Call

Provide a monthly 1-2 page report and associated call with the designated PCE contract administrator by the 10th of each month. Report may include, program process, challenges encountered (such as common technical problems/barriers), performance of other leveraged programs, and objectives for the next month.

Project data (as determined in 2.4) must also be submitted along with the report. A monthly Expense Report (1.3) and associated invoice should be submitted as well.

Major supplementary documentation developed in the course of work must also be submitted with the report. This supplementary documentation may include executed subcontracts, technical designs, permits, photographs of installed equipment, and materials developed for partner use.

1.3 Expense Report

Provide a monthly expense report documenting expenses including labor (hours, rate, total), subcontractor expenses (with invoices), and equipment (with invoices). The expense report must include the total expenditures for the month and running expense total. During the start-up phase (task 2), Consultant shall report on labor hours, however labor during this phase will be paid on a fixed fee and milestone basis as outlined in Exhibit B.

1.4 Subcontracts

All subcontracts will be provided to PCE for review and approval prior to execution to verify compliance with contract terms.

1.5 Site Visits

PCE may request site visits to one or more of the homes being served through the program. Consultant shall participate in project site visits with the designated PCE staff member(s) at a mutually determined date.

1.6 Final Report

Provide a final report (appropriate for public distribution) within 3 months after completion of last home served, which includes:

- 1.6.1 Executive summary
- 1.6.2 Itemized description of outcomes for each project objective
- 1.6.3 Itemized description of any additional accomplishments
- 1.6.4 Summary of each project including home characteristics, measures installed, funding sources, costs
- 1.6.5 Evaluated conclusions drawn from the project including lessons learned and recommendations for future work
- 1.6.6 Financial summary comparing expenditures to the project budget

2 Program Design and Start-up Tasks

2.1 Program Definition & Requirements

Consultant will assist PCE is finalizing the program strategy, plan, and requirements. Consultant will:

- 2.1.1 Develop a detailed project plan prior to the kickoff meeting.
- 2.1.2 Develop a program guide including, jointly defined detailed program objectives, policies, and eligibility requirements, including income and home eligibility requirements.
- 2.1.3 For programs which require being part of a contractor network to access incentives, such as the BayREN Home+ program, assist subcontractors in enrolling in such programs.

Deliverables:

- 1. Project plan
- Program guide
- 3. Electrification subcontractor enrollment in BayREN Home+ program

2.2 Technical Design Guidelines

Consultant will lead the development of the site design guidelines, policies, and procedures. Consultant will:

2.2.1 Develop a characterization of 3-5 likely home scenarios expected to be encountered in PCE service territory including but not limited to: age, size, health and safety issues, efficiency, appliance conditions, energy bills, and energy use.

- 2.2.2 Outline all possible programs that can be leveraged, the measures they offer, and incentive amounts. These programs will be referred to as "Other Programs" hereinafter.
- 2.2.3 Identify funding gaps and develop a list of PCE eligible measures.

 Determine value and impact of each measure, such as GHG, energy usage, and health/safety/comfort impacts. For non-electrification measures, determine a reimbursement rate which shall be the basis of the PCE payments for those measures (see Exhibit B Table 4).
- 2.2.4 Outline all information to be collected during the in-person home assessment, such as home conditions, existing appliances information, homeowner information, and other as mutually determined with PCE.
- 2.2.5 Explore innovative techniques and technologies that could be utilized in the program.
- 2.2.6 In collaboration with PCE, develop technical design guidelines, which would guide the development of each home's scope of work.
- 2.2.7 Propose packet of measures identified in 2.2.3 for each likely home scenario identified in 2.2.1. Assess the before and after energy use and bill for each scenario to use as benchmarks.
- 2.2.8 Outline the technical design guidelines into a 5-8 page document, including a decision tree and assessment of likely homes scenarios in 2.2.7, in a form appropriate for public distribution. The document will be reviewed and approved by PCE prior to being put into use.
- 2.2.9 With technical design guidelines as its foundation, build out, test, and deploy, the Prioritization Tool to be utilized for the in-person home assessments.
- 2.2.10 Update the design guidelines over the course of the program based on major lessons identified as site projects are executed.

Deliverables:

- 1. List of Other Programs with measures and incentive amounts
- 2. List of eligible PCE measures and each of their estimated value/impact
- 3. List of information to be collected during home assessment
- 4. Technical design guidelines document
- 5. Complete Prioritization Tool

2.3 Outreach Plan & Materials

Once the program launches, Consultant will lead outreach to identify potential program participants. To prepare for launch, Consultant will:

2.3.1 Jointly characterize the target customer base based on public and/or purchased data.

- 2.3.2 Develop list of likely eligible homes and prioritized homes to target outreach to.
- 2.3.3 Jointly develop a program outreach and marketing plan.
- 2.3.4 Connect with Other Programs' implementers and/or contractors to establish a cross-referral process and coordination in outreach efforts.
- 2.3.5 Develop PCE-branded program documents, forms, and outreach materials as mutually determined with PCE. This will include a customer participation agreement.
- 2.3.6 Assist PCE in developing program website material for PCE to build out, which will also include an inbound interest form for the program.

Deliverables:

- 4. Home characterization analysis and customer target outreach list
- 5. Outreach and marketing plan
- 6. Program forms and documents developed, including but not limited to a customer participation agreement
- 7. Program outreach materials, including but not limited to a program flier
- 8. Shared referral client protocol and process as agreed to by implementers/and or contractors of Other Programs, including a plan to track client referrals between programs.

2.4 Data Collection & Transfer

All information collected by the Consultant through the program shall be provided to PCE. This would include any home characterization and customer target analysis and data, customer outreach data, and data from homes served through the program. Consultant will:

- 2.4.1 For participating homes, outline all information to be collected from the project and at which stage, including the information collected during the in-person home assessment (determined at task 2.2.4) and any other. Such data may include participant information, installed measures, installation costs, home performance data, funding sources utilized, and to-be-determined Key Performance Indicators (KPIs). All information collected during the site visit shall be provided to PCE.
- 2.4.2 Jointly determine with PCE the format, method, and frequency in which data will be provided.
- 2.4.3 Depending on the data sharing method determined, implement any necessary technical requirements to facilitate data transfers.

Deliverables:

- 1. Outline of data to be delivered
- 2. Sample file in the format data is to be delivered

3 Ongoing Program Implementation Tasks

3.1 Outreach, Education, and Enrollment

Consultant and subcontractors will lead targeted outreach for the program, identifying the program as a PCE program. Consultant will:

- 3.1.1 Conduct targeted outreach to likely eligible homes, as determined in tasks 2.3.2 and 2.3.3.
- 3.1.2 Collaborate with Other Programs' implementers and/or contractors to identify prospective homes and coordinate on outreach efforts.
- 3.1.3 Manage inbound customer interest forms.
- 3.1.4 Screen customer leads for PCE program eligibility and other Programs' eligibility.
- 3.1.5 Educate customers on Other Programs they are eligible for and assist them in enrolling by helping them gather documents, fill out applications forms, etc.
- 3.1.6 Manage all customer communications, from customer leads to enrolled participants.
- 3.1.7 Carry materials and provide basic information about other non-homerelated programs that may be relevant to the participant, such as PCE's EV incentive programs.

Deliverable: Data of customers reached and engaged provided with the monthly report as determined in task 2.4.

3.2 Installation Management and Site Support

Consultant will monitor installation of all measures at participant's home and provide ongoing support to the participant throughout. Consultant will:

- 3.2.1 Execute an in-person home assessment in enrolled homes.
- 3.2.2 Using the technical design guidelines and Prioritization Tool, propose a scope of work for each home which outlines which program (PCE or Other Programs) would pay for each measure.
- 3.2.3 Oversee installation and manage subcontractors installing PCE-funded measures.
- 3.2.4 Manage PCE installation funds, including paying installation subcontractors and invoicing PCE on an actual cost basis.
- 3.2.5 Coordinate with Other Programs' implementers and/or contractors to stay informed on work to take place and associated timelines to coordinate on scheduled visits.

- 3.2.6 Serve as the participant's principal point of contact and provide ongoing support, including helping them navigate through the different programs and assisting to resolve any issues encountered.
- 3.2.7 Provide participant education or ensure such education is delivered effectively such that the participant can successfully operate new system(s) installed.

Deliverable: Data of homes served provided with the monthly report as determined in task 2.4.

3.3 Project Evaluation

After complete installation, Consultant will follow up with program participants after a tobe-determined timeframe. This could include:

- 3.3.1 Follow up surveys with participants to assess their satisfaction with the program, work completed, and self-reported changes to the home's comfort, health, safety, and energy performance.
- 3.3.2 Measure participant's utility bill impacts, both energy usage and cost, from the work completed after a to-be-determined timeframe. PCE and Consultant will mutually determine how the Consultant will access automated meter infrastructure (AMI) required for analyses, which could be through PG&E's Share My Data platform or another PCE platform.
- 3.3.3 Produce four case studies (2-4 pages each) throughout the program period, as mutually determined with PCE, that are appropriate for public distribution

Deliverables:

- 1. Customer surveys, to be provided with the monthly report as determined in task 2.4
- 2. Project evaluation data, to be provided on with the monthly report as determined in task 2.4
- 3. Four case studies appropriate for public distribution

4 Schedule

Task	Months from contract execution (36 months total)
1. Administrative tasks (task 1)	Month 1 – 30
2. Program Design and Start up (task 2)	Month 1 - 4
3. Outreach, education, enrollment (task 3.1)	Month 4 – 20

4. Installation management & site support (task 3.2)	Month 6 – 30
5. Project evaluation (task 3.3)	Month 8 – 30



Exhibit B

In consideration of the services provided by Consultant described in Exhibit A and subject to the terms of the Agreement, PCEA shall pay Consultant based on the following fee schedule and terms:

The maximum budget for this program is \$2,000,000. Table 1 illustrates the approximate budget breakdown for the program and payment schedule. Consultant is responsible for tracking expenditure and ensuring neither the maximum amounts per category, nor the total maximum budget are exceeded. PCEA agrees to pay Consultant within 30 days of receiving Consultant's monthly invoice.

Table 2 illustrates the hourly rates of Consultant staff to be paid on a time and materials basis. With the exception of the set program design and start-up fixed fee and outreach fee per enrolled customer, Consultant will use these hourly rates to invoice PCE for time spent. Invoices from installation subcontractors must demonstrate usage of this hourly rate.

Table 1 – Budget

Budget Category	Maximum Amount by Category	Payment Schedule
Program design and start-up fee (task 2)	\$75,000	 \$40,000 when technical design guidelines document is completed (2.2.8) \$35,000 when program is launched, and outreach begins (3.1)
Ongoing program administration (task 1 and 3)	Not to exceed \$530,000	Monthly – invoiced based on time and hourly rates in Table 2
Program outreach and enrollment (task 3.1)	Not to exceed \$95,000	Monthly – invoice based upon customer milestone fees outlined in Table 3
Installation budget including equipment and labor (task 3.2)	Not to exceed \$1,300,000	Monthly – direct installation costs for homes completed in that month as invoiced by subcontractors
Total Maximum Budget	\$2,000,000	

<u>Table 2 – Consultant and Subcontractors Hourly Rates</u>

Program Role	Hourly Rate
Program Manager (Consultant)	\$127.07
Program Coordinator (Consultant)	\$72.21
Field Superintendent (Consultant)	\$115.46
Information Systems Developer (Consultant)	\$97.03
IT Supervisor (Consultant)	\$87.47
Engineer (Consultant)	\$93.67
Data Analyst (Consultant)	\$80.65
Union Journeyman for electrification work (subcontractors)	TBD

Table 3 - Customer Outreach and Enrollment Payment Model (Draft)

Customer milestone	Payment amount per customer
Pre-assessment	\$57
Enrollment	\$78
Education	\$135
Project completion	\$90

Invoiced monthly based upon number of customers reaching specific milestone.

<u>Table 4 – Non-Electrification Measures Reimbursement Rates (Draft)</u>

Non-electrification measures will be paid upon a set reimbursement rate per measure. PCE and Consultant will determine full list of measures and their respective reimbursement rates as part of Task 2.2.3.

The reimbursement rate is to reflect fully loaded costs including equipment, labor time for task and travel, benefits, and overhead. All funds invoiced under this item are passed completely to the sub-contractor. The following table contains a sample list of measures and rates. Labor rate is not to exceed the equivalent of \$125/hour.

Measure	Materials	Level of effort (% of one hour)	Labor	Reimbursement rate
Ceiling fan	\$75	1	\$125	\$200 / each
Range Hood	\$115	0.68	\$85	\$200 / each
Carpet removal and vinyl flooring	\$2.18	0.035	\$4.83	\$6.58 / Sqft





PENINSULA CLEAN ENERGY AUTHORITY JPA Board Correspondence

DATE: March 12, 2021

BOARD MEETING DATE: March 25, 2021

SPECIAL NOTICE/HEARING: None

VOTE REQUIRED: Majority Present

TO: Honorable Peninsula Clean Energy Authority Board of Directors

FROM: Karen Janowski, Director of Marketing and Community Affairs &

Tj Carter, Marketing Specialist

SUBJECT: Approve grant for San Mateo County Office of Education San Mateo

Environmental Learning Collaborative Fellowship Programs

RECOMMENDATION:

Approve up to a \$205,000 grant for San Mateo County Office of Education San Mateo Environmental Learning Collaborative (SMELC) Fellowship Programming - \$160,000 for the SMELC Clean Energy Teacher Fellowship and \$45,000 for the SMELC Administrator Fellowship.

DISCUSSION:

Since 2019, Peninsula Clean Energy has provided \$182,500 of funding to the San Mateo County Office of Education for the San Mateo Environmental Learning Collaborative (SMELC) Fellowship programs. The SMELC program offers a suite of paid professional development fellowships programs for San Mateo County teachers and school administrators. Two of these fellowship programs include a Clean Energy Teacher Fellowship and an Administrator Fellowship.

Providing funding to the SMELC program has been one of the most successful strategies Peninsula Clean Energy has implemented to fulfill the its Strategic Plan 2020-2025 goal of "continu[ing] to support school[]-based literacy programs focused on energy." Through the SMELC program, Peninsula Clean Energy has reached 49 teachers, 10 administrators, and more than 1,665 students.

Previous Funding

The SMELC Clean Energy Teacher Fellowship helps teachers build capacity for developing lesson plans aimed at increasing environmental literacy, academic success, and civic engagement for a carbon free energy future. Peninsula Clean Energy provided \$120,000 to support the 2020-21 Clean Energy Teacher Fellowship. The funds included program administration funding, development coaches, and program stipends for

teachers. The 2020-21 Clean Energy Teacher program reached <u>36 teachers</u> and 695 students (and counting).

Peninsula Clean Energy previously provided \$25,000 in grant funds for a 2019-20 pilot year of the SMELC Clean Energy Teacher Fellowship. Thirteen teachers completed the program and developed clean energy units of study. The pilot reached 970 students.

The Administrator Fellowship supports educational leaders to successfully drive environmental transformation across their school community and meet the increasing curricular and facilities mandates related to environmental literacy/sustainability and climate resiliency. Peninsula Clean Energy provided \$37,500 to support the 2020-21 Administrator Fellowship Program. The funding included \$12,500 for program administrators from across San Mateo County ultimately completed the fellowship.

SMELC Program	Admins.	Teachers	Students Reached	Amount
Clean Energy Teacher Fellowship				
2020-21 Fellowship	-	36	*695	\$120,000
2019-20 Fellowship	-	13	970	\$25,000
Administrator Fellowship				
2020 Fellowship	10	-	-	\$37,500
Est. Total to Date	10	49	1,665	\$182,500

^{*}At the time of this memo teachers were still submitting the total count of students reached.

2021-22 SMELC Teacher Fellowship

Teachers of all grades (TK-12) and subjects in San Mateo County are encouraged to apply for the 2021-22 Clean Energy Fellowship. The target participation is 40 teachers, but capacity to support up to 50 teachers, which has an estimated potential to reach 2,500 students per year. Teachers will be provided a \$2,000 stipend and will be eligible for 3 Continuing Education Units.

There are four main components to the Fellowship:

- Energy Summer Institute: Professional learning intensive about energy issues
 that centers around building knowledge and skills, and unit design for
 implementation in the Fall Semester. The Institute curriculum is being codeveloped with the San Mateo County Office of Education, Peninsula Clean
 Energy, and other community partners.
- Fall Semester Guided Implementation & Practice: Ongoing support through coaching, content knowledge development, and collaboration in the Fall Semester.

- **February 2022 Final Deliverables:** A finalized and piloted unit of study about energy, reflection presentation, and completion ceremony.
- Ongoing Community Partner Support: Support for establishing a partnership with community and environmental education partners. Partners include San Mateo Energy Watch, Clean Coalition, Strategic Energy Innovations, and CuriOdyssey.

	Clean Energy Teacher Fellowship		
Grades	TK/K - 12		
Teacher	٨॥		
Subjects	All		
Stipend	\$2,000 per teacher		
Unit Focus	Standards aligned problem-based learning unit focused on Energy		
Offit Focus	Issues		
Professional	Eligibility for 2 Continuing Education Units		
Development	Eligibility for 3 Continuing Education Units		

Budget

Item	Description	Peninsula Clean Energy
Program Planning and Facilitation	Development and program facilitation: planning fee, facilitation fee	\$6,000
Workshop and Capstone Event	Materials, food, and beverage	\$4,000
\$2,000 stipend for each Clean Energy Teacher Stipend \$2,000 stipend for each Clean Energy Teacher Fellow upon completion up to 50 Fellows		Up to \$100,000
Instructional Coaching Services	Instructional Coaching for fellows for 50 Fellows	\$30,000
Program Evaluation	Program Evaluation	\$10,000
Additional \$1,000 for each additional Fellow above 40 Fellows		Up to \$10,000
	Up to \$160,000	

Fellowship Evaluation

Success of this program will be measured by a number of metrics that seek to evaluate both the impact on the fellows, and the greater impact of the project on the community. The following are general categories and strategies:

- Fellowship Participant Evaluation: A pre and post survey (as well as feedback from monthly workshops) for the participants will evaluate program outcomes in regard to knowledge base and skill development.
- Unit of Study Impact: Fellows will be required to gather metrics from their Unit of Study such as: number of students served, increased awareness of environmental issues, self-reported change in behavior, greenhouse gas emissions reductions, etc.

2021 SMELC Administrator Fellowship

This Administrator Fellowship program supports educational leaders to successfully manage change through the development and implementation of a project that does one or more of the following:

- Greens one aspect of their school/district's facilities and operations, and utilizes these efforts in the curriculum as a laboratory for learning;
- Develops and implements a strategic plan for integrating an environmental literacy topic into the curriculum and instruction for all students at every grade level;
- Supports a project that prepares the school/district to be Climate Ready in one focus area (high heat, floods, wildfires, trauma-informed practices for climate change, etc).

Participant Benefits and Outcomes

This program has been designed for site level and district level educational leaders who have some capacity and/or ability to make decisions or pilot new initiatives. Peninsula Clean Energy will provide funding for up to 10 administrators who select an energy focus for their fellowship program.

Focus Area	Sample Projects: Campus as a Laboratory for Learning
Energy Resiliency	 Energy conservation Capital Improvement Projects: efficiency, renewables, solar to battery storage, fleet electrification Carbon offsets and allowances HVAC systems Green Commute: EV Charging Stations, Safe Routes, no idling

Participant Requirements

Fellows can expect that participation in this program will require a time commitment of about 5-8 hours per month (including workshops).

Requirement	Description	
Application**	Screening and vetting will take place through an online application process.	

Workshops, Asynchronous Learning, and Coaching	The monthly workshops, asynchronous learning, and coaching sessions are where the majority of program objectives take place (i.e. strengthening knowledge base, skill building, network creation, and project support). This will be a blend of individual learning, dynamic peer-to-peer learning, as well as professional coaching support.	
Community Impact Project	 The community impact will be aligned to the focus area pathway that fellows chose during the application process. The project is a change management effort that focuses on one or more of the following: Greens one aspect of their school/district's facilities and operations, and utilizes these efforts in the curriculum as a laboratory for learning; Develops and implements a strategic plan for integrating an environmental literacy topic into the curriculum and instruction for all students at every grade level; Supports a project that prepares the school/district to be Climate Ready in one focus area (high heat, floods, wildfires, trauma-informed practices for climate change, etc). At the start of this project, fellows will complete a baseline assessment. Coaches will then guide fellows to develop and implement a plan of action from this assessment, and measure impact. 	
Sustainable and Climate Resilient Case Study	The major deliverable for this program is a case study that captures the fellows' journey in this program. Fellows will reflect on their role as a leader, and their successes and challenges with developing and implementing a community impact project that is focused on a sustainable and climate resilient transformation. This case study will be made available to the public.	
Capstone Presentation	In December, fellows will present their Community Impact Projects at a capstone event, which will serve as a celebration and graduation from the program.	

^{**}Applicant Diversity: The fellowship program will strive to maintain wide-spread diversity in regard to geography, job responsibilities, site vs. district, gender, race/ethnicity, age, etc.

Budget

Item	Description	Peninsula Clean Energy (Energy Pathway)
Program Planning and Facilitation	Development and program facilitation: planning fee facilitation fee	\$5,000
Administrator Stipend	\$2,500 stipend for 10 Fellows	\$25,000
Administrative Coach	Administrative Coaching Services	\$10,000
Mini-Grants	Grant funds for Fellow's Community Impact Projects	\$5,000
	\$45,000	

Fellowship Evaluation

Success of this program will be measured from a number of metrics that seek to evaluate both the impact on the fellows, and the greater impact of the project on the community. The following are general categories and strategies:

- Fellowship Participant Evaluation: A pre and post survey (as well as feedback from monthly workshops) for the participants will evaluate program outcomes in regard to knowledge base and skill development.
- Community Impact Assessment: Fellows will be required to gather metrics from community action projects, such as: number of students served, GHG emissions reductions, increased awareness of environmental issues, self-reported change in behavior, etc.



RESOLU	TION NO.	

PENINSULA CLEAN ENERGY AUTHORITY, COUNTY OF SAN MATEO, STATE OF CALIFORNIA

* * * * * *

RESOLUTION APPROVING GRANT FOR SAN MATEO COUNTY OFFICE OF EDUCATION SAN MATEO ENVIRONMENTAL LEARNING COLLABORATIVE FELLOWSHIP PRORAM

RESOLVED, by the Peninsula Clean Energy Authority of the County of San Mateo, State of California, that

WHEREAS, Peninsula Clean Energy was formed on February 29, 2016; and

WHEREAS, Peninsula Clean Energy previously provided \$182,000 in grant funds to the San Mateo County Office of Education for the San Mateo County Environmental Learning Collaborative to meet Peninsula Clean Energy's goals; and

WHEREAS, the San Mateo County Environmental Learning Collaborative aligns with Peninsula Clean Energy's goals to support workforce development, build brand awareness, encourage participation with energy programs, and increase environmental literacy throughout San Mateo County; and



WHEREAS, the San Mateo Environmental Learning Collaborative has reached 49 teachers, 10 administrators, and more than 1,665 students; and

WHEREAS, San Mateo County Office of Education seeks funding for the San Mateo County Environmental Learning Collaborative program to continue the Clean Energy Teacher Fellowship and Administrator Fellowship in 2021-2022; and

WHEREAS, the cumulative dollar amount of \$205,000 for the San Mateo County Environmental Learning Collaborative funding exceeds the Chief Executive Officer's contract execution authority of \$100,000; and

WHEREAS, \$160,000 will fund the 2021-22 Clean Energy Teacher Fellowship and \$45,000 will fund the 2021 Administrator Fellowship.

NOW, THEREFORE, IT IS HEREBY DETERMINED AND ORDERED that the Board approves grant funds for the San Mateo County Office of Education San Mateo Environmental Learning Collaborative in an amount not to exceed \$205,000.

* * * * * *



Executive Committee Meeting Schedule 2021

Location: Please see posted Agenda for location or teleconference options

Meeting Date:	Time:	Location:
 January 11, 2021	8:00 am	Video/Teleconference
February 8, 2021	8:00 am	Video/Teleconference
March 8, 2021	8:00 am	Video/Teleconference
April 12, 2021	10:00 am	Video/Teleconference
May 10, 2021	10:00 am	Video/Teleconference
June 14, 2021	10:00 am	Video/Teleconference
July 12, 2021	10:00 am	Check Agenda for details
August 9, 2021	10:00 am	Check Agenda for details
September 13, 2021	10:00 am	Check Agenda for details
October 12, 2021 (Tuesday)	10:00 am	Check Agenda for details
November 8, 2021	10:00 am	Check Agenda for details
December 6, 2021	10:00 am	Check Agenda for details



Audit and Finance Committee Meeting Schedule 2021

Location: Please see posted Agenda for location or teleconference options

Meeting Date: Time: Location:

February 8, 2021 (Monday) 10:00 am Video/Teleconference

Primary Purpose: Q2-FY2021 Financial Review

May 10, 2021 (Monday) 8:30 am Video/Teleconference

Primary Purpose: Q3-FY2021 Financial Review/Budget Draft #1

June 14, 2021 (Monday) 8:30 am Video/Teleconference

Primary Purpose: Budget Draft #2/Budget Final

August 9, 2021 (Monday) 8:30 am Video/Teleconference

Primary Purpose: Q4-FY2021 Financial Review

October 12, 2021 (Tuesday) 8:30 am Video/Teleconference

Primary Purpose: Review Audited Financial Statements FY2021

November 8, 2021 (Monday) 8:30 am Video/Teleconference

Primary Purpose: Q1-FY2022 Financial Review



REGULAR MEETING of the Board of Directors of the Peninsula Clean Energy Authority (PCEA) Thursday, February 25, 2021 MINUTES

Peninsula Clean Energy Video conference and teleconference 6:30 p.m.

CALL TO ORDER

Meeting was called to order at 6:31 p.m.

ROLL CALL

Present: Dave Pine, County of San Mateo

Carole Groom, County of San Mateo

Jeff Aalfs, Town of Portola Valley, *outgoing Chair* Rick DeGolia, Town of Atherton, *incoming Chair*

Donna Colson, City of Burlingame, incoming Vice Chair

Julia Mates, City of Belmont Coleen Mackin, City of Brisbane

Roderick Daus-Magbual, City of Daly City Carlos Romero, City of East Palo Alto

Sam Hindi, City of Foster City

Harvey Rarback, City of Half Moon Bay Laurence May, Town of Hillsborough Alex Terrazas, City of Los Banos Betsy Nash, City of Menlo Park Ann Schneider, City of Millbrae Tygarjas Bigstyck, City of Pacifica Michael Smith, City of Redwood City Marty Medina, City of San Bruno Laura Parmer-Lohan, City of San Carlos

Rick Bonilla, City of San Mateo

Flor Nicolas, City of South San Francisco

Jennifer Wall, Town of Woodside Pradeep Gupta, Director Emeritus John Keener, Director Emeritus

Additional Board Members Present:

Christine Krolick, Town of Hillsborough

Absent: Town of Colma

Staff: Jan Pepper, Chief Executive Officer

Andy Stern, Chief Financial Officer

Leslie Brown, Director of Customer Care Rafael Reyes, Director of Energy Programs Phillip Kobernick, Programs Manager

KJ Janowski, Director of Marketing and Community Affairs

Kirsten Andrews-Schwind, Senior Manager of Community Relations

Darren Goode, Media Relations

Siobhan Doherty, Director of Power Resources Chelsea Keyes, Power Resources Manager

Mehdi Shahriari, Senior Renewable Energy Analyst

Jeremy Waen, Director of Regulatory and Legislative Affairs

Mark Fenstermaker, Pacific Policy Group

David Silberman, General Counsel Shayna Barnes, Administrative Assistant

Anne Bartoletti, Board Clerk/Office Manager/Executive Assistant to the CEO

A quorum was established.

PUBLIC COMMENT:

Bill Nack, IBEW Local 617 Consultant, Comments included in the Agenda Packet
Dave Mauro, IBEW Local 617 Business Manager, Comments included in the Agenda Packet
Luis Amezcua, Senior Campaign Representative of the Sierra Club, Comments posted on website

David Silberman—General Counsel—presided over the official swearing-in of new Board members Christine Krolik—Town of Hillsborough, and Alex Terrazas—City of Los Banos.

ACTION TO SET THE AGENDA AND APPROVE CONSENT AGENDA ITEMS

Motion Made with Item 10 pulled from the Agenda / Seconded: Bonilla / May

Motion passed 21-0

Resolutions 02-25-21 (3), (4), (5)

JURISDICTION	NAME	YES	NO	ABSTAIN	ABSENT
County of San Mateo	Director Pine	Χ			
County of San Mateo	Director Groom	Χ			
Town of Atherton	Director DeGolia	Χ			
City of Belmont	Director Mates	Χ			
City of Brisbane	Director Mackin	Χ			
City of Burlingame	Director Colson	Χ			
Town of Colma					Χ
City of Daly City	Director Daus-Magbual	Χ			
City of East Palo Alto	Director Romero	Χ			
City of Foster City	Director Hindi				Χ

City of Half Moon Bay	Director Rarback	Χ		
Town of Hillsborough	Director May	Χ		
City of Los Banos	Alternate Terrazas	Χ		
City of Menlo Park	Director Nash	Χ		
City of Millbrae	Director Schneider	Χ		
City of Pacifica	Alternate Bigstyck	Χ		
Town of Portola Valley	Director Aalfs	Χ		
City of Redwood City	Alternate Smith	Χ		
City of San Bruno	Director Medina	Χ		
City of San Carlos	Director Parmer-Lohan	Χ		
City of San Mateo	Director Bonilla	Χ		
City of South San Francisco	Director Nicolas	Χ		
Town of Woodside	Director Wall	Χ		
	Totals	21		2

REGULAR AGENDA

1. CHAIR REPORT

Jeff Aalfs—Chair—reported this is his last Chair Report, after succeeding Dave Pine as Chair three years ago. He reported that a new Chair and Vice Chair would be selected tonight. He thanked the Board, staff, and the public. Board members and staff thanked Jeff for his leadership.

2. CEO REPORT

Jan Pepper—Chief Executive Officer—reported that COVID-19 Load Impact Analysis and Reach Codes updates were included in the CEO Report in the Agenda Packet, and notes from the first CC Power Board meeting were included with the Information Only Reports in the Agenda Packet. She reported that CC Power created a Policy Subcommittee, and reported that CalCCA sponsored Senate Bill SB612 which provides customers the right to a proportionate share of IOU (Investment Owned Utility) legacy resource products that are paid for in PCIA (Power Charge Indifference Adjustment).

3. CITIZENS ADVISORY COMMITTEE REPORT

Desiree Thayer—Chair—reported that the Citizens Advisory Committee (CAC) received reports on the Strategic Budget Priorities and Legislative Platform from Jan Pepper, and an update on Building Electrification Programs from Shraddha Mutyal. Desiree invited Board members to the March 11 CAC meeting to hear a panel of speakers on building electrification, and she reported that the CAC is working with staff to identify topics for new work group projects.

4. AUDIT AND FINANCE COMMITTEE REPORT

Donna Colson—Chair—reported that the committee had a robust discussion of the pros and cons of Strategic Budget Priorities and revisions to Policy 18 Financial Reserves Policy.

5. SELECTION OF CHAIR AND VICE CHAIR

Jeff Aalfs—outgoing Chair--reported that the Board formed a Nominating Committee chaired by Dave Pine. Dave Pine reported that the sole candidate nominated for Chair was Rick DeGolia. Dave reported the Nominating Committee received two nominations for Vice Chair: Donna Colson and Laura Parmer-Lohan. Dave praised the experience of both candidates for Vice Chair, and reported that the Committee recommends Donna Colson for Vice Chair for her long service on the Board, Chairing the Audit and Finance Committee, and service on the Executive Committee and Strategic Planning subcommittee.

Motion Made to approve nominations of Rick DeGolia for Chair, and Donna Colson for Vice Chair / Seconded: May / Mates

Motion passed 22-0

JURISDICTION	NAME	YES	NO	ABSTAIN	ABSENT
County of San Mateo	Director Pine	Χ			
County of San Mateo	Director Groom	Χ			
Town of Atherton	Director DeGolia	Х			
City of Belmont	Director Mates	Χ			
City of Brisbane	Director Mackin	Х			
City of Burlingame	Director Colson	Χ			
Town of Colma					X
City of Daly City	Director Daus-Magbual	Χ			
City of East Palo Alto	Director Romero	Χ			
City of Foster City	Director Hindi	Χ			
City of Half Moon Bay	Director Rarback	Χ			
Town of Hillsborough	Director May	Χ			
City of Los Banos	Alternate Terrazas	Χ			
City of Menlo Park	Director Nash	Χ			
City of Millbrae	Director Schneider	Χ			
City of Pacifica	Alternate Bigstyck	Χ			
Town of Portola Valley	Director Aalfs	Χ			
City of Redwood City	Alternate Smith	Χ			
City of San Bruno	Director Medina	Χ			
City of San Carlos	Director Parmer-Lohan	Χ			
City of San Mateo	Director Bonilla	Χ			
City of South San Francisco	Director Nicolas	Χ			

Town of Woodside	Director Wall	Χ		
	Totals	22		1

6. SELECTION OF CITIZENS ADVISORY COMMITTEE RECRUITMENT COMMITTEE

Kirsten Andrews-Schwind—Senior Manager of Community Relations—reported that the CAC has some openings and candidates will be recruited from the County of San Mateo and the City of Los Banos. She requested volunteers for a Recruitment Committee to interview candidates and select new members.

Board members volunteered to serve on the CAC Recruitment Committee: Carole Groom, Donna Colson, Rick Bonilla, Marty Medina, Alex Terrazas. Rick DeGolia—Chair—accepted the volunteers without a vote.

7. REVIEW STRATEGIC BUDGET PRIORITIES

Andy Stern—Chief Financial Officer—reported that staff evaluated several forecast models in response to increases in PCIA (Power Charge Indifference Adjustment) and decreases in PG&E generation rates. He reported that strategic budget priorities were discussed with the Executive Committee, Audit and Finance Committee, and Strategic Budget Priorities subcommittee, and the Committees supported implementation of proposed strategic budget changes.

Andy reviewed potential savings initiatives and an updated budget forecast. Board members discussed Days Cash on Hand, PCE's rate discount, projected load and revenues from the City of Los Banos, and Resource Adequacy (RA) costs and obligations.

8. APPROVE REVISED POLICY 18 FINANCIAL RESERVES POLICY

Andy Stern reviewed the current Reserve Policy, Days Cash on Hand (DCOH) and compared PCE's Reserve Policy and Credit Rating to the policies and ratings of other CCAs (Community Choice Aggregators). Andy reviewed proposed changes to the Reserve Policy that would remove estimates of future programs commitments.

Board members discussed the reserves policies and rate discounts of other CCAs, PCE's DCOH, the impact of adjusting the rate discount, the PCIA rate for Los Banos, and the expectations of the rating agencies.

Motion Made with Direction to Staff / Seconded: Bonilla / Medina

Motion passed 22-0

Resolution No. 02-25-21 (1)

JURISDICTION	NAME	YES	NO	ABSTAIN	ABSENT
County of San Mateo	Director Pine	Х			
County of San Mateo	Director Groom	Х			

Town of Atherton	Director DeGolia	Χ	
City of Belmont	Director Mates	Х	
City of Brisbane	Director Mackin	Χ	
City of Burlingame	Director Colson	Χ	
Town of Colma			Х
City of Daly City	Director Daus-Magbual	Χ	
City of East Palo Alto	Director Romero	Χ	
City of Foster City	Director Hindi	Χ	
City of Half Moon Bay	Director Rarback	Χ	
Town of Hillsborough	Director May	Χ	
City of Los Banos	Alternate Terrazas	Χ	
City of Menlo Park	Director Nash	Χ	
City of Millbrae	Director Schneider	Χ	
City of Pacifica	Alternate Bigstyck	Χ	
Town of Portola Valley	Director Aalfs	Χ	
City of Redwood City	Alternate Smith	Χ	
City of San Bruno	Director Medina	Χ	
City of San Carlos	Director Parmer-Lohan	Χ	
City of San Mateo	Director Bonilla	Х	
City of South San Francisco	Director Nicolas	Х	
Town of Woodside	Director Wall	Х	
	Totals	22	1

9. APPROVE REVISED POLICY 1 ON LEGISLATIVE INITIATIVES AND ADOPT PCE LEGISLATIVE PLATFORM FOR CY (CALENDAR YEAR) 2021

Jan Pepper reviewed proposed changes to Policy 1 to reference a new Legislative Platform. Jan reviewed the eight key areas of the platform, including Governance and Authority, Decarbonization, IOU (Investment Owned Utility) Charges and Exit Fees (PCIA), Resource Adequacy, Environmental Justice, Community Resilience, Local Economic Development, and California Energy Market Structure.

Board members discussed decarbonization goals, and local versus statewide transportation electrification.

Motion Made / Seconded: Parmer-Lohan / Hale

Motion passed 19-0

Resolution No. 02-25-21 (2)

JURISDICTION	NAME	YES	NO	ABSTAIN	ABSENT
County of San Mateo	Director Pine	Х			

County of San Mateo	Director Groom	Χ	
Town of Atherton	Director DeGolia	Χ	
City of Belmont	Director Mates	Χ	
City of Brisbane	Director Mackin	Χ	
City of Burlingame	Director Colson	Χ	
Town of Colma			X
City of Daly City	Director Daus-Magbual	Χ	
City of East Palo Alto	Director Romero	Χ	
City of Foster City	Director Hindi	Χ	
City of Half Moon Bay	Director Rarback	Χ	
Town of Hillsborough	Director May	Χ	
City of Los Banos	Alternate Terrazas	Χ	
City of Menlo Park	Director Nash	Χ	
City of Millbrae	Director Schneider	Χ	
City of Pacifica	Alternate Bigstyck	Χ	
Town of Portola Valley	Director Aalfs	Χ	
City of Redwood City	Alternate Smith	Χ	
City of San Bruno	Director Medina	Χ	
City of San Carlos	Director Parmer-Lohan	Χ	
City of San Mateo	Director Bonilla	Χ	
City of South San Francisco	Director Nicolas	Χ	
Town of Woodside			X
	Totals	21	2

10. APPROVE REVISED POLICY 16 SELECTION OF THE CHAIR AND VICE CHAIR AND APPOINTMENT TO THE EXECUTIVE COMMITTEE AND OTHER STANDING BOARD COMMITTEES

This item was pulled from the Agenda.

11. BOARD MEMBERS' REPORTS

Donna Colson—Vice Chair—reported that Carlos Romero will join the DEIA (Diversity, Equity, Accessibility, and Inclusion) subcommittee. Pradeep Gupta—Director Emeritus—reported that the Texas wholesale energy prices spiked by thousands of dollars per MWh (megawatt hour) during the February freeze, and that the system came within four minutes of a blackout. Jeff Aalfs reported that space is available for Board members to attend the March 16-19 Haas energy symposium, and he will present a symposium on March 2, about the policy implications of what happened in Texas.

ADJOURNMENT

Meeting was adjourned at 8:40 p.m.



PENINSULA CLEAN ENERGY AUTHORITY JPA Board Correspondence

DATE: March 12, 2021

BOARD MEETING DATE: March 25, 2021

SPECIAL NOTICE/HEARING: None VOTE REQUIRED: None

TO: Honorable Peninsula Clean Energy Authority Board of Directors

FROM: Karen Janowski, Director of Marketing and Community Affairs &

Leslie Brown, Director of Customer Care

SUBJECT: Update on Marketing, Outreach Activities, and Customer Care

BACKGROUND:

The Marketing, Community Affairs, and Customer Care Teams are responsible for enhancing Peninsula Clean Energy's brand reputation, educating and engaging customers, driving participation in programs, and ensuring customer satisfaction and retention. Tactics include community outreach, content creation and storytelling through owned (e.g. online, social media), earned (e.g. public relations), and paid media (advertising), school engagement programs, and customer care.

DISCUSSION:

The following is an update of activities that are currently underway. See "Strategic Plan" section below for how these activities support Peninsula Clean Energy's strategic plan objectives.

Heat Pump Water Heater (HPWH) Incentive Program

Marketing is supporting the program goal to install 200 heat pump water heaters in the first two years. As of March 09, 2021, we have had 6,400+ users on the HPWH incentive page through owned media (email) and paid digital advertising, including ads (starting 1/29/21) that are part of the "Switch is On" campaign.

A direct mail letter was sent from BayREN to 5,000 residents on February 25, 2021. An email is being developed targeting ECO100 and NEM customers.

Power On Peninsula Resilience Program

Power On Peninsula is the innovative Peninsula Clean Energy program that is helping residents maintain power during grid outages. It provides portable batteries to medically vulnerable residents in areas at high risk for power shutoffs and, through our relationship with Sunrun, offers grid storage that helps reduce greenhouse gas emissions and move Peninsula Clean Energy toward its goal of 100% renewable energy.

Power On Peninsula – Medically Vulnerable

As of March 8, 2021 Senior Coastsiders and Puente de la Costa Sur have captured information from 379 customers interested in the "Power On Peninsula" program. 141 batteries have been approved and delivered. A <u>customer satisfaction survey of battery recipients has been sent to recipients</u>. Results will contribute to overall project evaluation and recommended next steps.

Building Electrification Awareness Program

Applications for the All-Electric Awards have been reviewed and winners have been selected by the Awards Committee. Winners will be announced on May 14, 2021 at the annual Sustainable San Mateo County event. The program description is available at PenCleanEnergy.com/all-electric.

News & Media

Peninsula Clean Energy issued two news releases in the past month announcing 11 community outreach grant awards and Peninsula Clean Energy providing 100% emission-free power to all customers. Full coverage of Peninsula Clean Energy in the news can be found on our newly designed News & Media webpage.

Hiring

Marketing is recruiting a <u>Community Outreach Manager/Specialist</u> to be the principal representative of Peninsula Clean Energy as we launch our service and programs in the City of Los Banos. The position was slightly revised to expand the experience range for candidates eligible for the role.

ENROLLMENT UPDATE:

ECO100 Statistics

Total ECO100 accounts at end of February: 6,189 ECO100 accounts added in the month: 33 ECO100 accounts dropped in the month: 27 Total ECO100 accounts at the end of January: 6,183

Enrollment Statistics

Opt-outs increased from January 2021 (80) to February 2021 (94). The opt-out rate adjusted for move-in/move-outs is 2.75%, and our overall participation rate is 97.11% of eligible accounts.

Opt-Outs by City

CITY	Eligible Acct: -	Total -	TOTAL OPT OUT
ATHERTON INC	2,722	47	1.7
BELMONT INC	11,953	330	2.7
BRISBANE INC	2,523	61	2.4
BURLINGAME INC	15,507	368	2.3
COLMA INC	767	12	1.5
DALY CITY INC	34,176	1271	3.7
EAST PALO ALTO I	7,927	349	4.4
FOSTER CITY INC	14,877	317	2.1
HALF MOON BAY	4,986	160	3.2
HILLSBOROUGH IN	4,058	96	2.3
MENLO PARK INC	15,776	259	1.6
MILLBRAE INC	9,335	311	3.3
PACIFICA INC	15,471	614	3.9
PORTOLA VALLEY	1,687	112	6.6
REDWOOD CITY IN	35,156	876	2.4
SAN BRUNO INC	16,532	714	4.3
SAN CARLOS INC	14,663	400	2.7
SAN MATEO INC	44,521	1278	2.8
SO SAN FRANCISC	25,232	1009	4.0
UNINC SAN MATE	24,628	775	3.1
WOODSIDE INC	2,286	46	2.0
Grand Total	304,783	9,405	3.0

Table reflects data as of 3/12/2021

In addition to the County of San Mateo, there are a total of 15 ECO100 cities. The ECO100 towns and cities as of March 12, 2021, include: Atherton, Belmont, Brisbane, Burlingame, Colma, Foster City, Half Moon Bay, Hillsborough, Menlo Park, Millbrae, Portola Valley, Redwood City, San Carlos, San Mateo, and Woodside.

The opt-up rates below include municipal accounts, which may noticeably increase the rate in smaller jurisdictions.

Active Accounts by City and ECO100 Opt-Up Rate

City	Active Accounts	ECO100 Opt-Up %
Atherton	2,649	2.23%
Belmont	11,608	1.61%
Brisbane	2,474	3.56%
Burlingame	15,089	2.26%
Colma	757	3.96%
Daly City	33,022	0.27%
East Palo Alto	7,585	0.33%
Foster City	14,535	2.31%
Half Moon Bay	4,800	2.27%
Hillsborough	3,953	1.82%
Menlo Park	15,462	3.36%

Millbrae	9,033	1.11%
Pacifica	14,875	1.12%
Portola Valley	1,592	93.59%
Redwood City	34,223	2.12%
San Bruno	15,827	0.60%
San Carlos	14,236	2.28%
San Mateo	43,184	1.59%
So. San Francisco	24,233	0.47%
Uninc. San Mateo Co	23,695	2.54%
Woodside	2,237	2.59%
Grand Total	295,470	2.10%

Table reflects data as of 3/05/2021

STRATEGIC PLAN:

This section describes how the above Marketing and Community Care activities and enrollment statistics relate to the overall goal and objectives laid out in the strategic plan. The table indicates which objectives and particular Key Tactics are supported by each of the Items/Projects discussed in this memo. The strategic goal for Marketing and Customer Care is: Develop a strong brand reputation that drives participation in Peninsula Clean Energy's programs and ensures customer satisfaction and retention.

	Objective A:	Objective B:	Objective C:
	Elevate Peninsula	Educate and	Ensure high
	Clean Energy's	engage	customer
	brand reputation as	stakeholders in	satisfaction and
	a trusted leader in	order to gather	retention
	the community and	input, inspire action	
	the industry	and drive program	
Item/Project		participation	
Switch is On		KT*5: Provide	
Campaign		inspirational,	
		informative content	
		that spurs action to	
		reduce emissions	
HPWH Incentive		KT6: Promote	
		programs and	
		services, including	
		community energy	
		programs and	
		premium energy	
		services	
Power on		KT6 (see above)	
Peninsula		. ,	
Resilience Program			

Building Electrification Awareness Program		KT6 (see above)	
News and Media Announcements	KT1: Position leadership as experts on CCAs and the industry KT2: Cultivate relationships with industry media and influencers KT3: Tell the story of Peninsula Clean Energy through diverse channels		
ECO100 and Enrollment Statistics			Reports on main objective C

^{* &}quot;KT" refers to Key Tactic



PENINSULA CLEAN ENERGY AUTHORITY Board Correspondence

DATE: March 12, 2021

BOARD MEETING DATE: March 25, 2021

SPECIAL NOTICE/HEARING: None VOTE REQUIRED: None

TO: Honorable Peninsula Clean Energy Authority (PCE) Board of Directors

FROM: Jeremy Waen, Director of Regulatory and Legislative Affairs

Doug Karpa, Senior Regulatory Analyst Matthew Rutherford, Regulatory Analyst

SUBJECT: Update on PCE's February and March Regulatory and Legislative Activities

SUMMARY:

PCE's Regulatory and Legislative team remains very busy. Over the last month the Commission convened an all-day event to discuss trends in utility rates and affordability. The Commission has also issued several significant rulings and decisions relating to forward procurement to enhance the reliability of the electricity grid. During the last month, Jeremy has focused his time on convening "Meet and Greet" sessions with each of the CPUC's five Commissioners and their senior staff, continuing to transition into his directorship role, and helping to field legislative affairs while the department seeks to hire on a new Legislative Analyst. Doug has focused his efforts on the continued policy debates around Resource Adequacy requirements and new resource buildout to address future capacity needs. Doug also continued convening periodic meetings between CCAs and key environmental and social justice stakeholder groups. Matthew continued leading PCE's efforts in the Transportation Electrification case to aid our agency's programmatic objectives. Matthew also continued to shepherd PCE's proposal to offer Disadvantaged Communities Green Tariff and Community Solar past further milestones.

DEEPER DIVE:

General Policy Matters

The CPUC's Annual En Banc – Rates and Affordability

On February 24, 2021 the Commission convened an all-day *En Banc on Rates and Affordability* to discuss the forward trends in overall electricity and gas utility rates and how these trends might impact the State's affordability, equity, and environmental policy priorities. All three members of PCE's policy team participated in this event as it provides timely insights into the broader landscape of statewide energy policy. The Commission issued a white paper in advance of this *En Banc* which can be found here:

https://www.cpuc.ca.gov/uploadedFiles/CPUC_Website/Content/Utilities_and_In_dustries/Energy/Reports_and_White_Papers/Feb%202021%20Utility%20Costs%20and%20Affordability%20of%20the%20Grid%20of%20the%20Future.pdf

Additionally, PCE staff has a summary prepared by legal counsel of this white paper which was sent to the board in the weekly newsletter on March 5.

(Public Policy Objective A, Key Tactic 1)

2021 PCE-CPUC Commissioner Meet and Greets

PCE staff is mid-way through conducting its annual "Meet and Greet" meetings with each of the five CPUC Commissioners. To date, PCE staff and select members of the Board have attended two of these sessions:

- 1) On February 22, 2021, PCE Staff (Jan Pepper, Jeremy Waen, and Rafael Reyes) along with PCE Board Members (Donna Colson, Dave Pine, and Jeff Aalfs) met with Commissioner Rechtschaffen and his advisors. Because Commissioner Rechtschaffen is assigned to the Transportation Electrification case, conversation focused on those matters after staff provided a brief overview of recent accomplishments and priorities for the agency.
- 2) On March 9, 2021, PCE Staff (Jan Pepper and Jeremy Waen) along with PCE Board Members (Tom Faria and Rick DeGolia) met with Commissioner Guzman Aceves and her lead advisor. Because Commissioner Guzman Aceves' interest have historically focused on matters of equity and affordability, this meeting focused on PCE's planned expansion to Los Banos as well as PCE's recent programmatic accomplishments to aid our low-income and small business customers with their COVID-19 related economic hardship and our efforts to provide our customers who are medically dependent on their electricity with portable batter backups to help shield them from harm during Public Safety Power Shutoff (PSPS) events forced upon them by PG&E.

The three remaining "Meet and Greet" meetings are presently scheduled for early April.

(Public Policy Objective A, Key Tactic 3)

Power Charge Indifference Adjustment (PCIA)

PCIA related procedural matters have been relatively quiet in the last month. PCE staff await further action from the Commission relating to CalCCA's comments and reply filed within the PCIA OIR in January and February 2021 in response to the Amended Scoping Memo and Ruling issued on December 16, 2020. These matters could lead to substantial changes to how future the IOUs' Energy Resource Recover Account (ERRA) proceedings will be scheduled and transpire.

Separately, PCE staff has also played a lead role in drafting CalCCA comments responding to a Joint IOU Petition for Modification of the Commission's longstanding Renewable Portfolio Standard (RPS) docket filed on February 11, 2021. The IOUs seek to alter the manner in which contracts related to their Renewable Market Adjusting Tariff (ReMAT) program have their costs recovered. Presently these procurement costs are considered part of the PCIA where they are passed through to CCA customers based on a vintaged accounting of when the resource was committed to and how that commitment date relates to when certain customers left IOU

generation service for a CCA. Now however, the IOUs are challenging this well-established approach and are seeking for CCA's customers to shoulder these costs regardless of when those customers left the IOUs services. CalCCA's comments in response argue for either (1) rejecting the joint IOUs' proposal and preserving the present cost recovery approach, or (2) adjusting the proposed cost recovery and benefit allocation presented by the IOUs such that all customers who contribute towards these resource costs receive the benefits as well.

(Public Policy Objective A, Key Tactic 1)

<u>Disadvantaged Communities Green Tariff (DAC-GT)/ Community Solar Green Tariff</u> (CSGT) Programs

On March 11, 2021, the Commission issued a Draft Resolution conditionally approving the advice letters filed by PCE, CleanPowerSF, East Bay Community Energy, Marin Clean Energy, and San Jose Clean Energy (the Joint CCAs) to implement their respective DAC-GT and CSGT programs. Comments on the resolution are due on April 5, 2021. The Joint CCAs plan to file comments to seek clarification on some aspects on the Draft Resolution. The Draft Resolution will appear on the agenda for the Commission's next voting meeting on April 15, 2021 where it may vote on the Resolution or postpone a vote until a later meeting.

On March 12, 2021, staff from PCE's regulatory, power resources, marketing, and finance teams, along with Jan Pepper, met to kick off the new DAC-GT and CSGT programs. Staff discussed key elements of implementation and key tasks for implementation now that the programs will soon receive Commission approval.

Transportation and Electrification

Matthew continues to lead PCE's policy advocacy to support PCE's programmatic objectives to enable transportation electrification. The Commission's Transportation Electrification Framework proceeding remains quite active even while the verdict on whether CCAs can administer ratepayer funded programs under this framework remains pending.

One area of recent case activity focused on the implementation of recent legislation, Assembly Bill 841 (Ting, 2020), focused on authorizing the continued socialization of grid infrastructure upgrade costs through broader residential rates to enable installation of EVSE. As noted in the last memo, PCE filed opening comments on February 5, 2021 that focused on promoting the socialization of such costs for the installation of EVSE at MUDs as a means to overcoming present barriers identified by PCE's programs team's in-the-field experiences while also remedying regressive implications of the Commission's current rules for socializing EVSE-related costs. Since then, reply comments were filed on February 19, 2021, wherein TURN, CalPA, and Joint Commenters (including the Sierra Club and The Union of Concerned Scientists among others) each offered their support for PCE's proposal to socialize grid infrastructure upgrades for EVSE installations at MUDs.

A second area of activity focuses on the Commission's continuing consideration of Vehicle Grid Integration (VGI) technologies. PCE and the CCAs engaged in this docket met with Energy Division staff and staff from PG&E, SDG&E, and SCE on March 4, 2021 to discuss possible collaboration on VGI efforts. Energy Division staff indicated that they would be happy to see joint VGI efforts if possible and PCE is open to exploring this possibility in future conversations. PG&E, SDG&E, and SCE also hosted a workshop on current Distributed Resources programs with a focus on how EVs and EVSEs can participate. It was attended by the interested CCAs as

well as a large number of EV charging service providers. The Utilities used the workshop to explain existing DR offerings, as well as solicit feedback from attendees on barriers to EVs and EVSEs participating in those offerings, as well as gather input that could be used to create future EV DR programs from the Utilities.

Lastly on March 8, 2021, Matthew and Jeremy along with Phillip and Rafael from PCE's Programs team met with advisors from Commissioner Shiroma's office to discuss the TEF proceeding. Because Commissioner Shiroma is not assigned to the case, PCE staff used this meeting as an opportunity to demonstrate the value that CCAs can bring to the Commission's future transportation electrification efforts. The discussion focused on past programmatic experiences and successes that PCE has had in facilitating TE adoption among its customers. PCE reiterated with CPUC staff that by enabling CCAs to directly administer TE programs leveraging distribution revenues under the Commission's oversight, the State would be able to achieve its transportation electrification objectives in a far more expedient, efficient, and cost-effective manner than if program administration is left solely to the IOUs.

(Public Policy Objective A, Key Tactic 1, Key Tactic 2 and Key Tactic 3)

Integrated Resource Planning & Resource Adequacy

Doug Karpa continues to lead PCE's engagement in the Commission's Integrated Resource Plan (IRP) and Resource Adequacy (RA) efforts on several fronts. Since last month, Dr. Karpa's work has focused primarily on RA-related matters. Dr. Karpa continues to serve as a staff thought leader helping to guide a joint Southern California Edison (SCE) and CalCCA proposal previously advanced to the Commission as potential rework for the present RA framework. RA presently focuses on the annually anticipated peak demand for generating capacity, but it is proving to fall short of maintaining system reliability in other months as additional peak demands in evening hours of non-summer months grow due to adoption of renewable energy and shifting customer demand profiles.

The Joint SCE-CalCCA proposal aims to better accommodate renewables and hourly load accounting through a requirement that considers both capacity and durations of energy delivery. The Commission's Energy Division staff are advancing a competing proposal that relies on a forward-looking energy-only framework that would leave reliability and Greenhouse Gas Emissions targets largely up to suppliers. Dr. Karpa continued his engagement in these matters through attending the February 25, 2021 workshop on these matters, and by assisting CalCCA in drafting its recent responses to critiques to the Joint SCE-CalCCA proposal filed on March 12, 2021.

The Commission is also contemplating near-term reform to its existing RA requirements, and PCE has been an instrumental part of developing CalCCA's responses to these issues as well on March 12, 2021. PCE's has focused on shaping these near-term refinements to fully recognize the contributions of renewables and not granting unwarranted favorable treatment to fossil gas resources.

Recently there have been several procedural developments relating to the Commission's forward procurement efforts, both near-term to address the 2021 Summer Readiness matters and long-term to address the retirement of the Diablo Canyon Nuclear Power Plant in 2024-2025. Dr. Karpa will be focusing his work on these issues in the coming month.

(Public Policy Objective A, Key Tactic 1 and Key Tactic 3 & Public Policy Objective C, Key Tactic 3)

Stakeholder Outreach

Dr. Karpa continues to host the regular bi-weekly call with staff from CCAs and environmental and environmental justice stakeholders. As part of the March 3, 2021 call, Monica Padilla, Director of Power Resources for Silicon Valley Clean Energy, led a discussion of the formation of the California Community Power (CCP) Joint Powers Authority and its efforts to procure long duration storage.

(Public Policy Objective A, Key Tactic 2)

Legislative Advocacy and Outreach

PCE staff continue to engage with CalCCA's Legislative Committee to coordinate review of proposed legislation for the present session. Given the ongoing COVID-19 induced constraints on the State's legislative operations, it is surprising to note the abundance of energy related bills being advanced this year (roughly 60 bills at present count). PCE staff is aware of several bills which we recommend the agency should formally support. Information on some of these bills are included in the CEO Report. PCE staff is also continuing to take steps to review potential applicants to fill the present Legislative Analyst position opening to aid the agency in addressing these affairs.

FISCAL IMPACT:

Not applicable.



PENINSULA CLEAN ENERGY JPA Board Correspondence

DATE: March 10, 2021

BOARD MEETING DATE: March 25, 2021

SPECIAL NOTICE/HEARING: None VOTE REQUIRED: None

TO: Honorable Peninsula Clean Energy Authority Board of Directors

FROM: Jan Pepper, Chief Executive Officer, Peninsula Clean Energy

Rafael Reyes, Director of Energy Programs

SUBJECT: Community Programs Report

SUMMARY

The following programs are in progress, and detailed information is provided below:

- 1. Building and EV Reach Codes
- 2. Existing Building Electrification
- 3. "EV Ready" Charging Incentive Program
- 4. Low-Income Used EV Program
- 5. EV Ride & Drives/Virtual Engagement
- 6. E-Bikes Rebate Program
- 7. Municipal Fleet Program
- 8. Ride-Hail Electrification Pilot
- 9. MUD Low-Power EV Charging Pilot
- 10. EV Managed Charging Pilot
- 11. Curbside Charging Pilot

In addition to the Community Energy Programs highlighted in this report, we also have several energy resilience initiatives that are either in development or currently active. These are led by Power Resources. Those initiatives include:

- 1. Public Facility Resilience
- 2. San Mateo County Facilities DER Evaluation
- 3. Power on Peninsula Homeowner
- 4. Power on Peninsula Medical

You can learn more about those programs in the monthly Energy Resiliency Strategy Report.

DETAIL

1. Building and EV Reach Codes

Background: In 2018 the Board approved a building "reach code" initiative to support local governments in adopting enhancements to the building code for low-carbon and EV ready buildings. The initiative is a joint project with Silicon Valley Clean Energy (SVCE). The program includes small grants to municipalities, technical assistance, and tools, including model codes developed with significant community input. The tools and model code language are available on the project website (www.PeninsulaReachCodes.org).

In PCE territory, Burlingame, Brisbane, Colma, E. Palo Alto, Menlo Park, Millbrae, Pacifica, Redwood City, San Carlos, San Mateo and San Mateo County have adopted reach codes. A number of additional agencies are in progress including Belmont, Daly City, San Bruno, and Portola Valley. Across San Mateo and Santa Clara Counties, 22 agencies have adopted some kind of reach code.

In addition, in January 2020 the Board approved an extension of the reach code technical assistance plus additional elements:

- Education and training for developers and contractors. To date, two developer round tables and one contractor training has been completed. The third developer round table on will be held on March 23rd 2021 and the topic includes EVs and Electrical Infrastructure.
- Consumer education program on the benefits of all-electric buildings

This technical assistance is now publicly available at www.AllElectricDesign.org. We have had 31 unique technical assistance requests, including 10 in 2021, of which 12 have been resolved. Early signs suggest increasing demand for this service driven by the need to comply with reach codes.

Lastly in December 2020, the Board approved the draft contract amendment with TRC Engineers to extend the scope to include technical assistance for developing policy language for existing buildings.

Status:

- Cities in progress for new construction reach codes: Belmont, Daly City, San Bruno, and Portola Valley
- Existing Building policy development with Menlo Park: PCE staff is working with city staff on finalizing the consultant's scope of work to include assistance for developing replicable policies and tools for existing building electrification.

Strategic Plan:

Goal 3 – Community Energy Programs, Objective A:

• Key Tactic 3: Ensure nearly all new construction is all-electric and EV ready

 Key Tactic 4: Establish preference for all-electric building design and appliance replacement among consumers and building stakeholders

2. Existing Building Electrification

Background: In May 2020, the Board approved a 4-year, \$6.1 million program for electrifying existing buildings. This program includes a number of elements including rebates for appliance replacements, a low-income home upgrade program, technology pilots and research.

Status: The heat pump water heater (HPWH) rebate program was launched on January 01, 2021 and we have received 3 applications to date. PCE rebates are offered in partnership with BayREN's Home+ program. BayREN offers a rebate of \$1,000 and PCE offers an additional rebate of \$1,500 for methane gas to HPWH or \$500 for electric resistance to HPWH. PCE also offers a bonus rebate for low-income customers (CARE/FERA participants) of \$1,000 and \$1,500 for electrical panel updates of up to 100 Amp and \$750 for up to 200 Amp that might be needed to accommodate the HPWH. Currently three San Mateo County contractors and 13 contractors outside the county are enrolled in the program. A digital ad campaign promoting the program along with building electrification awareness was launched on Jan 29th, and a coordinated letter with the County of San Mateo was mailed to 5,000 homeowners on Feb 26th. (Further detail on the awareness campaign can be found in the Marketing memo).

For the Low-Income Home Upgrade program an administration firm, Richard Heath & Associates (RHA), has been selected as part of a competitive process. It is anticipated that the program will enter a design phase in Q2 and be ready for public launch in Q3 2021. The contract for RHA is presented for approval in a separate memo this month.

Lastly, the contract with Harvest Thermal has been executed and the kick-off meeting for the project was completed. The Harvest Thermal team is currently working on technology improvements and home recruiting criteria. Recruitment for the program will begin in Q2 2021.

The Existing Building initiatives are associated with the Building Electrification Awareness Program that is led by the Marketing team.

Strategic Plan:

Goal 3 – Community Energy Programs, Objective A:

• Key Tactic 4: Establish preference for all-electric building design and appliance replacement among consumers and building stakeholders

Goal 3 – Community Energy Programs, Objective B:

- Key Tactic 1: Invest in programs that benefit underserved communities
- Key Tactic 3: Support workforce development programs in the County

Goal 3 – Community Energy Programs, Objective C:

• Key Tactic 1: Identify, pilot, and develop innovative solutions for decarbonization

3. "EV Ready" Charging Incentive Program

Background: In December 2018 the Board approved \$16 million over four years for EV charging infrastructure incentives (\$12 million), technical assistance (\$2 million), workforce development (\$1 million), and administrative costs (\$1 million). Subsequent to authorization of funding, PCE successfully applied to the California Energy Commission (CEC) for the CEC to invest an additional \$12 million in San Mateo County for EV charging infrastructure. That application was in conjunction with agencies in Santa Clara County.

Of PCE's \$12 million in incentives, \$8 million will be administered under the CEC's California Electric Vehicle Incentive Project (CALeVIP) and \$4 million under a dedicated, complementary PCE incentive fund. The dedicated PCE incentives will address critical market segments not addressed by CALeVIP including Level 1 charging, assigned parking in multi-family dwellings, affordable housing new construction, public agency new construction, and charging for resiliency purposes.

Status: PCE's technical assistance and outreach is ongoing. In total 70 different locations are in the technical assistance process requesting over 775 charging ports. PCE's dedicated incentives have received four applications for funding for a total of 165 ports. Two applications were approved totaling 144 ports and \$288,000. CALeVIP is processing Year-1 applications and PCE staff anticipate 834 L2 ports and 326 DCFC ports to be funded. Year 2 and Year 3 funding application review has not started. PCE contacted all CALeVIP applicants in San Mateo to offer technical assistance and facilitate project success.

Strategic Plan:

Goal 3 – Community Energy Programs, Objective A:

- Key Tactic 1: Drive personal electrified transportation to majority adoption
- Key Tactic 5: Support local government initiatives to advance decarbonization

Goal 3 – Community Energy Programs, Objective B:

• Key Tactic 3: Support workforce development programs in the County

4. Used EV Program (Low-Income)

Background: Launched in March 2019, the Used EV Program (formerly referred to as "DriveForward Electric") provides an incentive up to \$4,000 for the purchase of used plugin hybrid electric vehicles (PHEVs) and full battery electric vehicles (BEVs) to incomequalified San Mateo County residents (those making 400% of the Federal Poverty Level or less). The incentives may be combined with other state-funded income-qualified EV incentive programs. When combined with another program, PCE offers \$2,000 as a

follow-on rebate. In October 2020, the Board approved expanding the program to offer used EV incentives to all San Mateo County residents, while maintaining the increased incentives for income-qualified residents. In February 2021, the Board approved delegating authority to the CEO to execute a contract with GRID Alternatives ("GRID") to administer the expanded program.

Status: The current income-qualified program is under continuous operation and as of March 11, 2021 has provided rebates to 89 residents. Staff is finalizing the contract with GRID and anticipates executing it by the end of March. Following contract execution, staff and GRID will adjust some eligibility and procedural requirements from the current program, train GRID staff who will administer the program, and set up of a dealership network whereby PCE could offer its incentive to customers at point of sale. Staff anticipates launching the expanded program in Q2 2021.

Strategic Plan:

Goal 3 – Community Energy Programs, Objective A:

• Key Tactic 1: Drive personal electrified transportation towards majority adoption

Goal 3 – Community Energy Programs, Objective B:

• Key Tactic 1: Invest in programs that benefit underserved communities

5. EV Ride & Drives / Virtual Engagement

Background: In February 2019, the Board approved continuation of the EV Ride & Drive program over three years (2019-2021) following a 2018 pilot. It provides for community and corporate events in which community members can test drive a range of EVs. The program generated 14 events and 1,879 experiences in 2019 and a total of 19 events and 3,033 experiences since inception in 2018. Events have included pre-test drive, post-test drive, and six-month trailing surveys to document changes in customer perception towards EVs and actions taken after the EV experience. Event surveys indicate that the ride and drive was the first EV experience for 64% of participants and 87% report an improved opinion of EVs. Trailing surveys 6 months or more after events have yielded a 33% response rate and 17% of respondents indicate they acquired an EV after the event.

Status: Due to the COVID-19 pandemic, ride & drive events have been paused. As a result, staff developed a suite of virtual EV engagement pilot programs that replaced the in-person ride & drive events. The new engagement programs aimed to provide a platform for residents to learn about EVs and opportunities to experience driving an EV as a way to increase overall awareness and interest in EVs to increase adoption. Staff evaluated these pilots in January 2021 and has decided to phase out some due to low uptake and to prioritize limited funding (taking into account prospective budget cuts) for the most successful programs. The EV info line & chat box and 1-on-1 dealer test drives will be phased out. The Virtual EV Forums in partnership with large San Mateo County employers will continue through the end of FY20-21. The EV Rental Rebate, which offers a rebate up to \$200 on the rental of an EV and as of March 11, 2021 has issued 48 rebates, has seen good uptake and shown positive impact in participant's opinions of EVs

and likeliness to get an EV as their next vehicle. As a result, most of the FY21-22 EV Ride & Drive/Engagement budget will be dedicated to the EV Rental Rebate, until ride & drive events become feasible again.

Strategic Plan:

Goal 3 – Community Energy Programs, Objective A:

• Key Tactic 1: Drive personal electrified transportation towards majority adoption

6. E-Bikes Rebate Program

Background: The Board approved the E-Bikes Rebate program in July 2020. This program will run three years for a total budget of \$300,000, which will provide approximately 300 rebates of up to \$800 to residents with low to moderate incomes over the course of the program. Silicon Valley Bicycle Coalition is under contract to PCE as an outreach and promotional partner and local bike shops will be under contract to provide the rebate as a point-of-sale discount to customers.

Status: The program is under development with an expected launch in Q2 2021.

Strategic Plan:

Goal 3 – Community Energy Programs, Objective A:

• Key Tactic 1: Drive personal electrified transportation to majority adoption

Goal 3 – Community Energy Programs, Objective B:

• Key Tactic 1: Invest in programs that benefit underserved communities

7. Municipal Fleet Program

Background: The Board approved the Municipal Fleet Program in November 2020. This program will run for three years with a total budget of \$900,000 and is comprised of three components to help local agencies begin their fleet electrification efforts: hands-on technical assistance and resources, gap funding, and a vehicle to building resiliency demonstration that will assess the costs and benefits of utilizing fleet EVs as backup power resources for agencies in grid failures and other emergencies.

Status: The program is under development with an expected launch in mid 2021. An RFP will be released to hire a consulting team to work with PCE on providing detailed technical assistance to agencies, including project cost estimations and EV infrastructure designs.

Strategic Plan:

Goal 3 – Community Energy Programs, Objective A:

- Key Tactic 2: Bolster electrification of fleets and shared transportation
- Key Tactic 5: Support local government initiatives to advance decarbonization

Goal 3 – Community Energy Programs, Objective C:

• Key Tactic 1: Identify, pilot, and develop innovative solutions for decarbonization

8. Ride-Hail Electrification Pilot

Background: This pilot, approved by the Board in March 2020, is PCE's first program for the electrification of new mobility options. The project partners with Lyft and FlexDrive, its rental-car partner, to test strategies that encourage the adoption of all-electric vehicles in ride-hailing applications.

Status: The pilot formally kicked off in December 2020 and PCE staff are coordinating with Lyft on development. Vehicles are anticipated to become available in mid-2021.

Strategic Plan:

Goal 3 – Community Energy Programs, Objective A:

• Key Tactic 2: Bolster electrification of fleets and shared transportation

Goal 3 – Community Energy Programs, Objective C:

• Key Tactic 1: Identify, pilot, and develop innovative solutions for decarbonization

9. MUD Low-Power EV Charging Pilot

Background: This project was initially approved by the Board in 2018. Energy Solutions was selected as the consultant partner as part of a competitive bid process and the project was kicked off in August 2019. This pilot program has completed a needs assessment among various multi-unit dwelling (MUD) ownership types as well as a review of various low-power charging technology solutions. 13 Plugzio devices (smart outlets) have been installed at 3 MUDs in Millbrae and Foster City. Lessons learned from this pilot are already informing inclusion of low-power charging solutions in PCE's EV Ready Program and may result in featuring additional technology solutions.

Status: The project team selected Plugzio, an internet-connected 120V outlet, as the pilot technology for the first round of testing. Installations have been successfully completed at the three sites and the team is evaluating the possible inclusion of one additional site with Orange Outlet, a similar technology. A cost-efficiency analysis found that the project saved nearly \$180,000 in costs at one MUD alone, compared to the cost of traditional Level 2 charging (40 amps of power to each station), which would have triggered the need for significant upgrades. Installing L2 instead of L1 would have been over 4X more expensive in these cases. New regulations from the California Department of Food and Agriculture (CDFA), which regulates fuel measurement, have created potential uncertainty regarding requirements for digital displays on EV fuel dispensers which may impact Plugzio and other smart plug technologies which are not compliant. PCE staff is researching the CDFA issue.

Strategic Plan:

Goal 3 – Community Energy Programs, Objective A:

• Key Tactic 1: Drive personal electrified transportation to majority adoption

Goal 3 – Community Energy Programs, Objective B:

• Key Tactic 1: Invest in programs that benefit underserved communities

Goal 3 – Community Energy Programs, Objective C:

• Key Tactic 1: Identify, pilot, and develop innovative solutions for decarbonization

10.EV Managed Charging Pilot

Background: PCE contracted with startup FlexCharging to test managed charging through vehicle-based telematics. The system utilizes existing Connected Car Apps and allows PCE to manage EV charging via algorithms as a non-hardware-based approach to shift more charging to occur during off-peak hours.

Status: Phase 1 of the project, which tested basic functionality of the App and connectivity with Tesla and Nissan vehicles, ran from January - August 2020 and was a successful proof of concept, though certain technical limitations were discovered with Nissan and other vehicle automakers, which limited the pilot to Tesla vehicles. PCE was able to analyze incoming data from this pilot and gather lessons learned from a vehicle-based approach to managed charging. Further, PCE was able to verify that these data could be utilized in the monetization of Low Carbon Fuel Standard Credits, which PCE is exploring.

Staff is now developing the approach for Phase 2. PCE is collaborating with an academic team from the University of California, Davis' Davis Energy Economics Program (DEEP) and the University of Chicago's Harris School of Public Policy to develop an incentive structure experiment that will be used to inform PCE's Managed Charging Program design. Staff anticipates coming to the board with a proposal soon.

Strategic Plan:

Goal 3 – Community Energy Programs

• Implement robust energy programs that reduce greenhouse gas emissions, <u>align</u> energy supply and demand, and provide benefits to community stakeholder groups

Goal 3 – Community Energy Programs, Objective C:

• Key Tactic 1: Identify, pilot, and develop innovative solutions for decarbonization

11. Curbside Charging Pilot

Background: Curbside charging has the potential benefit of bringing new charging solutions to current or potential EV drivers that lack residential charging such as many residents of MUDs and other renters. Originally approved in 2018 but delayed for various reasons, this pilot will first assess the cost effectiveness of curbside charging in various scenarios, including streetlight-mounted stations, and potential technical and policy

barriers that need to be addressed prior to installation. The first phase will also analyze the scaling potential, costs, and feasibility of curbside charging. If the assessment phase shows curbside charging to be viable, PCE will facilitate pilot installations in 1-2 cities in the second phase.

Status: PCE has contracted with Arup to provide technical assistance in the first phase of this project and is gathering information from agencies that have expressed interest in partnering with PCE on feasibility assessments, including South San Francisco, Burlingame, Redwood City, and San Mateo, and is collaborating with PG&E. The team began these assessments in December 2020, which will last through the first half of 2021.

Strategic Plan:

Goal 3 – Community Energy Programs, Objective A:

- Key Tactic 1: Drive personal electrified transportation to majority adoption
- Key Tactic 5: Support local government initiatives to advance decarbonization

Goal 3 – Community Energy Programs, Objective B:

• Key Tactic 1: Invest in programs that benefit underserved communities

Goal 3 – Community Energy Programs, Objective C:

• Key Tactic 1: Identify, pilot, and develop innovative solutions for decarbonization



PENINSULA CLEAN ENERGY JPA Board Correspondence

DATE: March 12, 2021

BOARD MEETING DATE: March 25, 2021 **SPECIAL NOTICE/HEARING:** None

VOTE REQUIRED: None

TO: Honorable Peninsula Clean Energy Authority Board of Directors

FROM: Jan Pepper, Chief Executive Officer

SUBJECT: Energy Supply Procurement Report – March 2021

BACKGROUND:

This memo summarizes energy procurement agreements entered into by the Chief Executive Officer since the last regular Board meeting in February. This summary is provided to the Board for information purposes only.

DISCUSSION:

Execution Month	Purpose	Counterparty	Term
March	Purchase of Carbon-	Shell Energy North	10 months
	Free Energy	America (US), L.P.	

In January 2020, the Board approved the following Policy Number 15 – Energy Supply Procurement Authority.

Policy: "Energy Procurement" shall mean all contracting for energy and energy-related products for PCE, including but not limited to products related to electricity, capacity, energy efficiency, distributed energy resources, demand response, and storage. In Energy Procurement, Peninsula Clean Energy Authority will procure according to the following guidelines:

1) Short-Term Agreements:

- a. Chief Executive Officer has authority to approve Energy Procurement contracts with terms of twelve (12) months or less, in addition to contracts for Resource Adequacy that meet the specifications in section (b) and in Table 1 below.
- b. Chief Executive Officer has authority to approve Energy Procurement contracts for Resource Adequacy that meet PCE's three (3) year forward capacity obligations measured in MW, which are set annually by the



California Public Utilities Commission and the California Independent System Operator for compliance requirements.

Table 1:

Product	Year-Ahead Compliance Obligation	Term Limit	
Local Resource Adequacy	In years 1 & 2, must demonstrate capacity to meet 100% of monthly local obligation for years 1 and 2 and 50% of monthly local obligation for year 3 by October 31st of the prior year	Up to 36 months	
System Resource Adequacy	In year 1, must demonstrate capacity to meet 90% of system obligation for summer months (May – September) by October 31st of the prior year	Up to 12 months	
Flexible Resource Adequacy	In year 1, must demonstrate capacity to meet 90% of monthly flexible obligation by October 31st of the prior year	Up to 12 months	

- c. Chief Financial Officer has authority to approve any contract for Resource Adequacy with a term of twelve (12) months or less if the CEO is unavailable and with prior written approval from the CEO.
- d. The CEO shall report all such agreements to the PCE board monthly.
- 2) **Medium-Term Agreements:** Chief Executive Officer, in consultation with the General Counsel, the Board Chair, and other members of the Board as CEO deems necessary, has the authority to approve Energy Procurement contracts with terms greater than twelve (12) months but not more than five (5) years, in addition to Resource Adequacy contracts as specified in Table 1 above. The CEO shall report all such agreements to the PCE board monthly.
- 3) Intermediate and Long-Term Agreements: Approval by the PCE Board is required before the CEO enters into Energy Procurement contracts with terms greater than five (5) years.
- 4) Amendments to Agreements: Chief Executive Officer, in consultation with the General Counsel and the Board Chair, or Board Vice Chair in the event that the Board Chair is unavailable, has authority to execute amendments to Energy Procurement contracts that were previously approved by the Board.

STRATEGIC PLAN:

The contracts executed in October support the Power Resources Objective A for Low Cost and Stable Power: Develop and implement power supply strategies to procure low-cost, reliable power.



PENINSULA CLEAN ENERGY AUTHORITY JPA Board Correspondence

DATE: March 12, 2021

BOARD MEETING DATE: March 25, 2021

SPECIAL NOTICE/HEARING: None VOTE REQUIRED: None

TO: Honorable Peninsula Clean Energy Authority Board of Directors

FROM: Jan Pepper, Chief Executive Officer

Siobhan Doherty, Director of Power Resources

Peter Levitt, Associate Manager, Distributed Energy Resources (DER)

Strategy

Dave Fribush, DER Technical Advisor

SUBJECT: Update on Energy Resiliency Strategy Implementation

SUMMARY

On January 23, 2020, the Peninsula Clean Energy Board of Directors approved staff's three-year, \$10 million strategy to deploy local electricity resiliency programs in San Mateo County. Each month, staff will provide an update report to the Board on the status of the programs deployed under this strategy. Any actual budget commitments would need to be approved by Peninsula Clean Energy's Board in accordance with our policies. The full Energy Resiliency Strategy is available on Peninsula Clean Energy's website: https://www.peninsulacleanenergy.com/wp-content/uploads/2020/02/Resiliency-Strategy_January.pdf

Below is a list of goals associated with each program, and progress towards each of those goals.



Program Name	(MW)	Updated Goal (Customers Served)	MW Installed to Date	Customers Served to Date
Power On Peninsula - Medical	0.2 MW solar / 0.45 MWh storage	136	0.06 MW solar / 0.41 MWh storage	128
Power On Peninsula - Homeowner	2.3-12.8 MW Solar / 8-44 MWh Storage	400-2,200	0.04 MW Solar / 0.08MWh storage	6
San Mateo County Facilities DER Evaluation	5.8 MW Solar / 23 MWh Storage	9,000 – 18,000	0	0

The following programs are in progress, and detailed information is provided below:

- 1. Public Facility Resilience
- 2. San Mateo County Facilities DER Evaluation
- 3. Power on Peninsula Homeowner
- 4. Power on Peninsula Medical

STRATEGIC PLAN

The activities and programs described below support the following objectives and key tactics in Peninsula Clean Energy's strategic plan:

- Power Resources Goal 1: Secure sufficient, low-cost, clean sources of electricity that achieve Peninsula Clean Energy's priorities while ensuring reliability and meeting regulatory mandates
 - Objective C Local Power Sources: Create a minimum of 20 MW of new power sources in San Mateo County by 2025
 - Key tactic 2: Implement Board-approved strategy to increase community resilience.



 Key tactic 3: Work with local government partners to identify and catalog opportunities for distributed energy resources across San Mateo County.

DETAIL

1. **Public Facility Resilience** (under Municipal CRCs Program)

Background

Peninsula Clean Energy, in partnership with East Bay Community Energy and with the support of a grant from the Bay Area Air Quality Management District, engaged the consultant Arup to provide to do a preliminary evaluation of critical facilities identified by municipalities and evaluate the viability of deploying solar+storage to provide energy resilience. In October 2020, the Board approved a DER Site Evaluation Services contract with McCalmont Engineering for a more in-depth analysis of a subset of these facilities.

Current Status

Staff are working with McCalmont to conduct on-site DER evaluations for 10 municipal facilities that received a preliminary screen in the above-referenced BAAQMD/Arup project. These 10 were selected from the 32 that received a preliminary screen and we have allotted 1 facility to each of the 10 municipalities that had a site on that list.

We began site visits in January 2021 and have to date completed visits for the following sites:

- Fair Oaks Community Center, Redwood City
- San Carlos Youth Center, San Carlos
- Mission Blue Center, Brisbane
- Public Works Yard, Hillsborough
- Chetcuti Building and Surrounding Complex, Millbrae
- Colma Community Center, Colma
- City Hall and Police Station, Belmont
- Police Station, Mateo
- Half Moon Bay Library
- Pacifica Community Center

McCalmont has begun providing preliminary site reports indicating the maximum amount of solar that can be deployed based on available space and building load. We will use this information to assess what energy resilience and / or DER solution(s) would work best for customer needs. One initial finding from site visits to date is that many of the sites have existing fossil fuel backup generators for critical loads and in many cases are large enough to back up the entire facility. We will explore the costs and trade-offs for potential use of solar + storage as a secondary backup that might preclude the use of fossil generation under some circumstances; it is possible that the incremental costs



may not be merited as adequate backup power already exists. If that is the case, we will explore solar + storage for customer bill management and time shifting of solar energy to help meet Peninsula Clean Energy's 24/7 time-coincident renewable energy goals.

2. San Mateo County Facilities DER Evaluation: RFP for DER Site Evaluation and Engineering Services (will inform Municipal CRC program, but funded separately)

<u>Background</u>

In coordination with San Mateo County facilities personnel, Peninsula Clean Energy identified a number of San Mateo County-owned facilities as candidates for DER systems and are conducting site evaluations with McCalmont Engineering. While these evaluations are not specifically focused on resiliency, we will be looking at resiliency options as part of the site evaluations and DER sizing recommendations. We expect that lessons-learned and evaluation processes developed for these projects can inform future DER deployments, including those with a goal of providing resiliency.

The site list for evaluation is:

- Half Moon Bay Airport
- HSA/Fair Oaks Medical
- Pescadero Landfill
- San Carlos Airport
- San Mateo County Events Center
- San Mateo County Youth Services/Camp Kemp/Fire Station
- San Mateo Election Building

Current Status

We have completed site visits for all but the Events Center and the Pescadero Landfill. The Events Center is being used as a COVID-19 vaccination site and we have been advised that a site visit is not possible. We are exploring whether SMC facility staff could document some of the information needed for McCalmont to do a preliminary analysis, which could then be verified with an in-person visit when possible.

All sites are being considered for solar and energy storage, though the characteristics of each site will determine what equipment can actually be deployed, and the same notes with regard to existing backup generators as described above apply to these sites. We will also be exploring the potential for larger in-front-of-the-meter deployments at sites that have significant available space, such as the Half Moon Bay airport.



3. Power on Peninsula – Homeowner (Distributed RA Program)

Background

Power on Peninsula – Homeowner is a solar+storage energy resiliency program run by Peninsula Clean Energy in partnership with Sunrun and TerraVerde Energy. This program will deliver 1 - 5MW (4 – 20MWh) of energy storage systems paired with solar power to Peninsula Clean Energy customers. At Peninsula Clean Energy's direction, Sunrun will direct the systems to dispatch stored energy during evening hours when renewable generation on the California grid is low. This will also help Peninsula Clean Energy to reduce its peak load and thereby reduce it resource adequacy requirements.

More information about this program is on our website at https://www.peninsulacleanenergy.com/pop-homeowner/. Board members are encouraged to point their constituents to this webpage. Peninsula Clean Energy customers who sign up for this program may receive an incentive between \$500 - \$1,250.

Current Status

Sunrun has elected to increase the contract amount and pursue Phase 2 of this program, which will during from January 1, 2022 to January 1, 2023. Peninsula Clean Energy will procure an increased volume of load modification as a result.

Peninsula Clean Energy and Sunrun held a Program Check-In Meeting to review Sunrun's progress over the past six months, including load modification targets, 2021 forecasting, co-marketing efforts, and challenges, including delays in the SGIP program and the impacts of COVID-19.

Peninsula Clean Energy and Sunrun continue to implement the Co-Marketing Plan for the "Power On Peninsula" program. Sunrun posted a NextDoor ad, Peninsula Clean Energy issued two newsletters (one to all customers, and one to "opt-in" customers) and Peninsula Clean Energy continued testing Adwords.

The timing of rolling out the Multifamily Program is currently pending information from PG&E regarding the existing virtual net metering tariff (VNEM), the utility interconnection process, and confirming SGIP rebates for multifamily projects.

4. Power on Peninsula – Medical (Medically Fragile Customers Program)

Background

In July 2020, Peninsula Clean Energy implemented a portable battery and portable solar panel donation program with an approved budget of \$750,000. These portable devices were provided to renters and homeowners of condos or mobile homes that are currently on or eligible for the Medical Baseline rate tariff and live in high fire-threat districts or areas that were impacted by two+ PSPS events in 2019. These customers traditionally cannot access rooftop solar and installed energy storage and are at risk of power outages disrupting their medical equipment. The portable devices deliver backup power right to their medical devices. The program has been widely successful based



on customer feedback. You can find more information about this program on our website at https://www.peninsulacleanenergy.com/pop-medical

Peninsula Clean Energy has contracted with two non-profit community organizations – Senior Coastsiders and Puente de la Costa Sur – to educate customers regarding the PG&E Medical Baseline Rate, disaster preparedness planning, and this battery donation program. These two organizations are also helping us identify the customers who meet the eligibility criteria identified above. Peninsula Clean Energy has also contracted with Hassett Hardware to assist with product procurement, product storage, delivery to customers, and customer product training.

Current Status

As of mid-March, Hassett has delivered 141 Yeti 3000x batteries to a total of 128 medically vulnerable Peninsula Clean Energy customers. In addition Hassett has delivered 34 units of the Boulder 200 Briefcase foldable solar panels to medically vulnerable Peninsula Clean Energy customers.

Hassett Hardware and Peninsula Clean Energy will continue to deliver the remaining Yeti 3000x batteries and Boulder 200 Briefcase solar panels to customers throughout the first half of 2021.

Staff is hosting weekly coordination calls among the following organizations:

- Senior Coastsiders;
- Puente de la Costa Sur:
- City of Half Moon Bay (Public Works and Emergency Services);
- Center for Independence for Individuals with Disabilities; and
- Central Coast Energy Services.

All these organizations are actively working on backup battery solutions for medically vulnerable residents in areas most likely to be impacted by future Public Safety Power Shutoff (PSPS) events.

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¹ Customers with certain medical equipment may require more than one battery to provide the appropriate amount of backup power.

CA Community Power

TO: CC Power Board of Directors **DATE:** 3/18/21

FROM: Jim Shetler – Interim General Manager

SUBJECT: Report on CC Power Board of Directors Meeting – 3/17/21

The CC Power Board of Directors held its regularly scheduled meeting on Wednesday, 3/17/21, via Zoom. Details on the Board packet, presentation materials, and public comment letters can be found under the Meetings tab at the CC Power website: https://cacommunitypower.org

Highlights of the meeting included the following:

- Consent Calendar The Board unanimously approved the following items:
 - o Minutes of the 2/17/21 Regular Board Meeting
 - Contract with Adirondack Power Consulting, LLC for Interim General Manager Services
 - Contract with Braun Blaising Smith Wynne, P.C. for Interim General Counsel Services
 - o Contract with Pisenti & Brinker, LLP to Audit the CC Power Financial Statements.
- Ad hoc Committee Report Selection of General Manager and General Counsel
 The ad hoc Committee reported out on its discussions regarding the process for the
 selection of the next Interim General Manager and for the General Counsel.
 The Committee reviewed the draft job description for the General Manager position and
 the proposed process for selection that would result in a recommendation to the Board
 by June 2021. The Board provided consensus concurrence on the recommendations.
 The ad hoc Committee provided its recommendations on the solicitation process for a
 contract for General Counsel services that would result in a recommendation to the
 Board by May 2021. The Board unanimously approved the resolution for this
 solicitation.
- Ad hoc Committee Report CC Power Policy Development The ad hoc Committee overviewed its draft policy document, which is included in the Board packet at the above noted website. Comments were received from several parties, including representatives from labor and environmental groups. The commentors were appreciative of the efforts to date by the Board and staff to develop policies for the agency and felt they were generally headed in the right direction. However, they each had proposals for improving on the draft policies on labor and environmental from their perspectives. The Board then discussed the current draft document in light of the comments and also the need to ensure that the development of policies did not impact the current LDS project effort. Based upon its discussions, the Board offered the following guidance to the ad hoc Committee:

- Bifurcate the development of generic policies for CC Power from the procurement conditions developed for the LDS Project, with the priority on the LDS Project first.
- Review the RFO conditions that were developed for the current LDS Project and were the basis for the proposals that have been received. Solicit input from the project oversight committee chair. Identify the minimum changes that would be needed in project conditions that could incorporate the interests discussed, while maintaining progress on the timeline to continue with this effort.
- Survey industry counterparts to determine best practices in the area of labor and environmental policies. Solicit input from member counsel.
- Meet with the labor and environmental commentors to seek clarification and better understanding of their concerns and recommendations that the *ad hoc* Committee could then use to inform its internal discussions on revising the draft policy proposal.
- Provide a status update of progress on the above items and potential recommendations for the LDS Project at the April Board meeting.
- Interim General Manager's Report Mr. Shetler provided an update on the administrative efforts for agency formation, the status of the LDS Project effort, and potential agenda items for upcoming Board meetings. The slides for this update are included at the website noted above.
- Discussion on Individual Member Items The Board had a general discussion on issues that CC Power should be considering for opportunities in the future, which included:
 - Evaluating a central procurement role for that may be mandated, with costs collected from other LSEs, rather than being on the receiving end of charges from investor-owned utilities.
 - Development of offshore wind projects.
 - Small scale battery projects that could be strategically sited to support grid reliability needs.

Staff will monitor these items and update the Board as these opportunities develop.

 Board Workshop – Ascend Consulting provided an informative overview on considerations for valuing and locating potential LDS projects. The slides for this presentation are included at the website noted above.

Please feel free to contact me if you have any questions on this report.

CC Power Board Meeting – General Manager Update

3/17/21



- Administrative Update
- Long Duration Storage Project Update
- Items for Future Board Meetings

Administrative Upate

- Filings made with Secretary of States' Office
- Draft Conflict of Interest Code in review with FPPC
 - Once finalized, will be posted for 45-day public comment period
 - Calendared for Board meeting for discussion and possible approval
- Bank account established
- Initial cash calls have been made to the participants
- Contracts executed based upon Board approval
 - Gridwell LDS negotiations support
 - Keyes & Fox LDS negotiations support
 - SVCE website support
 - Maher Accountancy accounting services



LDS Project Update

- ad hoc Project Oversight Committee (POC)
 - Held initial kickoff meeting 3/5/21
 - Focus
 - Narrowing project list for further evaluation late March
 - Finalize short list recommendations mid-April
 - Work with Negotiating Team on negotiation principles
 - Longer-term advise negotiating team on issues and recommendations



Items for Future Board Meetings

- April Board Meeting (4/21/21)
 - Approval of New Members (Clean Power SF, Valley Clean Energy)
 - Requires new members to file certified copy of resolution by its governing body
 - Agreeing to the provisions of the JPA Agreement
 - Requests to become a member
 - Board approval by at least 2/3 vote (6 members)
 - Budget Adjustment to Reflect New Members
 - Recommendations on CC Power Policies
 - Ratification of LDS Project Process and Delegations
 - Update on LDS Project
- May Board Meeting (5/19/21)
 - Recommendation on General Counsel selection
 - Conflict of Interest Code Approval
 - LDS Project budget adjustment and allocation based upon short list participation
- June Board Meeting (Not yet scheduled 6/16/21)
 - Recommendation on General Manager selection
 - LDS Project Update





- Founded in 2002 with 50 employees in Boulder, Oakland and Bozeman
- Seven integrated software products for operations, portfolio analytics, and planning
- Consulting and custom analytical solutions

Proven and Broadly Adopted













































Differentiated Value for Enhanced Decision Analysis

PowerSimm OPS OPERATIONAL STRATEGY

- Optimal short-term dispatch
- Determine operating strategies from position and financial exposure
- Track realized customer revenue and costs to settled day ahead and real time price
- Optimize financial exposure between day ahead and real time prices

PowerSimm Portfolio Manager PORTFOLIO MANAGEMENT

- Portfolio management
- Generation asset management
- Hydro and renewable asset modeling
- Retail management & pricing
- Energy purchases and sales
- CFaR, GMaR, EaR

PowerSimm Planner VALUATION & PLANNING

- Asset valuation
- Resource Planning
- Capacity Expansion Planning
- Reliability Analysis
- Renewable Integration
- Long-term Price Forecasting

Smart Bidder STORAGE OPTIMIZATION

- Optimal offers to ISO
- Continuous adjust ISO offers
- Forecast probabilities of price spikes

BatterySimm Valuation STORAGE VALUATION

- Optimal siting and sizing
- Captures realistic revenues given imperfect
- Battery cycle analysis

Ascend Market Intelligence

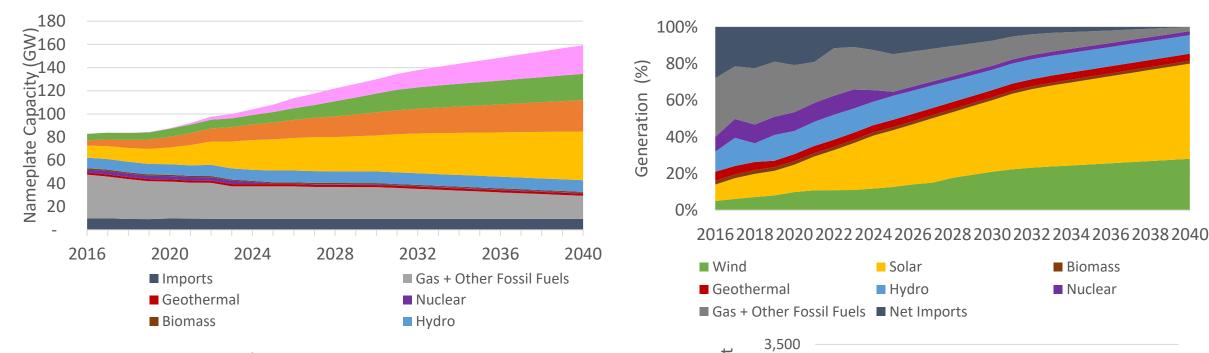
- Power, ancillary, and capacity price forecasts, including subhourly and geographic evolution
- Market reports and analysis
- Hourly and subhourly nodal and hub price simulations

Key Takeaways

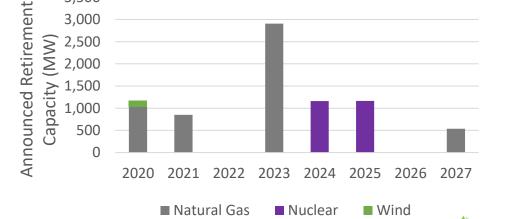
- CAISO is experiencing an influx of renewable energy, creating supply volatility and an opportunity for storage
- The renewable supply in California is solar-heavy, creating a need for longduration storage for sundown clean energy and clean capacity
- The power sector is at an inflection point, making history (and the present) poor predictors for the future
- Forecasts must explicitly model volatility to properly value storage
- Forecasts should adhere to long-run equilibrium in a competitive market (while also considering barriers to entry)



CAISO is gaining large quantities of intermittent resources while losing baseload and flexible capacity



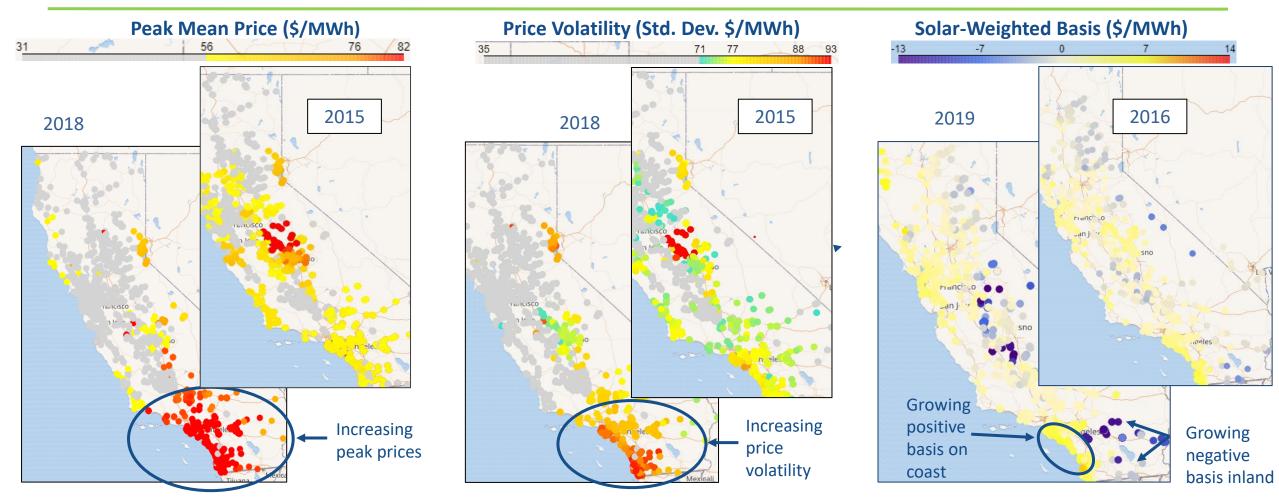
- Capacity equal to ~20% of peak load may be retiring over the next 10 years
 - ~8 GW of announced retirements (lower right)
 - ~6 GW of potential economic and legislative retirements
- Low prices for renewables combined with demand from customers and corporations could result in even higher renewable penetration than required by policy
- Storage deployments are heavily outpaced by the continued addition of intermittent resources and thermal retirements



3,000

- CAISO Interconnection Queue from: http://www.caiso.com/planning/Pages/GeneratorInterconnection/Default.aspx
- Retirements from: https://www.eia.gov/electricity/data/eia860m/

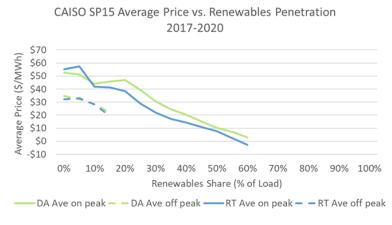
Geographic Shift in Generation

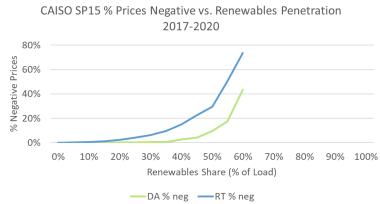


- ➤ Retirement of coastal thermal plants pushes generation inland to the desert, creating peak period congestion and volatility along the southern coast
- ➤ High concentration of solar generation in desert regions results in increasing negative basis to load centers and declining value of solar generation

 Ascend Analytics

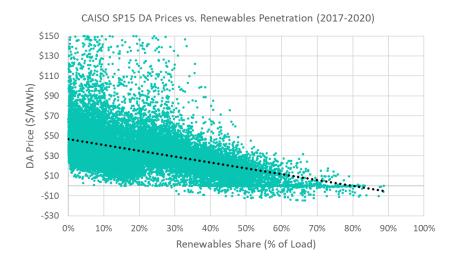
Price Depression as Renewable Penetrations Rise

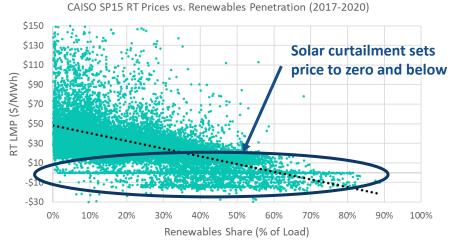






- Negative prices and renewable curtailment grow as renewables shares climb above ~25%, then rapidly accelerate at penetrations above 50%
- But it's not just the average that is affected by renewables...





Volatility Increases with Renewable Penetration

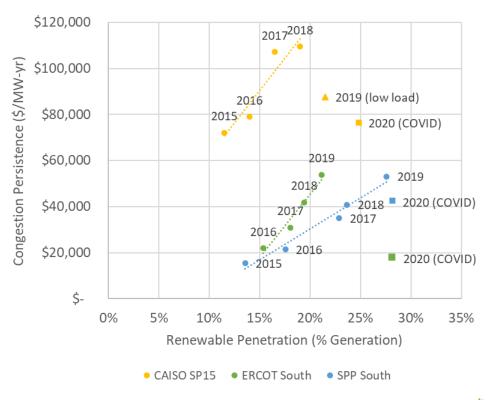
Congestion persistence is Ascend's metric for describing the prevalence of extreme prices

- It measures the area under the tails of the price distribution as shown in the graph below
- It is the strongest driver of energy arbitrage opportunities and can be interpreted as the upper bound for revenue of a BESS system with no energy constraint
- Energy storage will derive more value from price swings in the real-time market than the day-ahead market



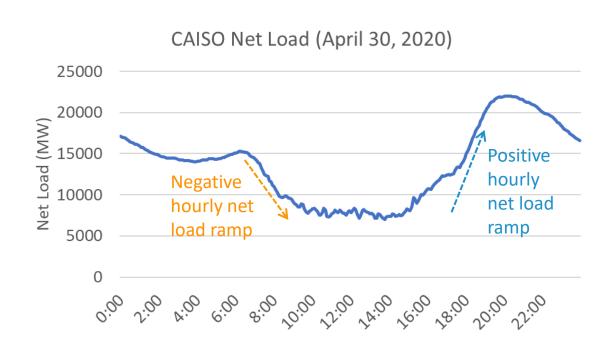
Congestion Persistence has a strong linear trend with renewable penetration across multiple ISOs

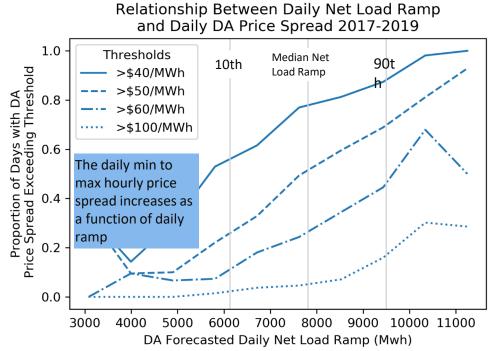
 Across ISOs we see a correlation between congestion persistence and renewable penetration



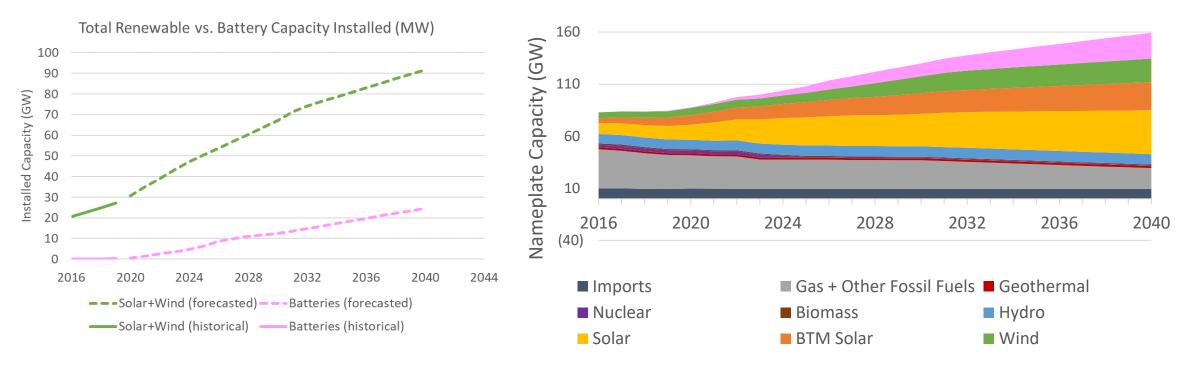
Drivers of Price Volatility

Cause	Definition	Expected Impact (Frequency and Impact)
Congestion	Regional imbalance between supply and demand	Location specific. Generally frequent & moderate
Scarcity	When supply is tight relative to load	Infrequent & large
Forecast Error	Difference between day-ahead and real-time net load (load – renewables)	Continuous & small. Storage will largely address forecast error.
Net Load Ramp	The hourly net load ramps drive price differences	Frequent & large. Storage can partly mitigate.





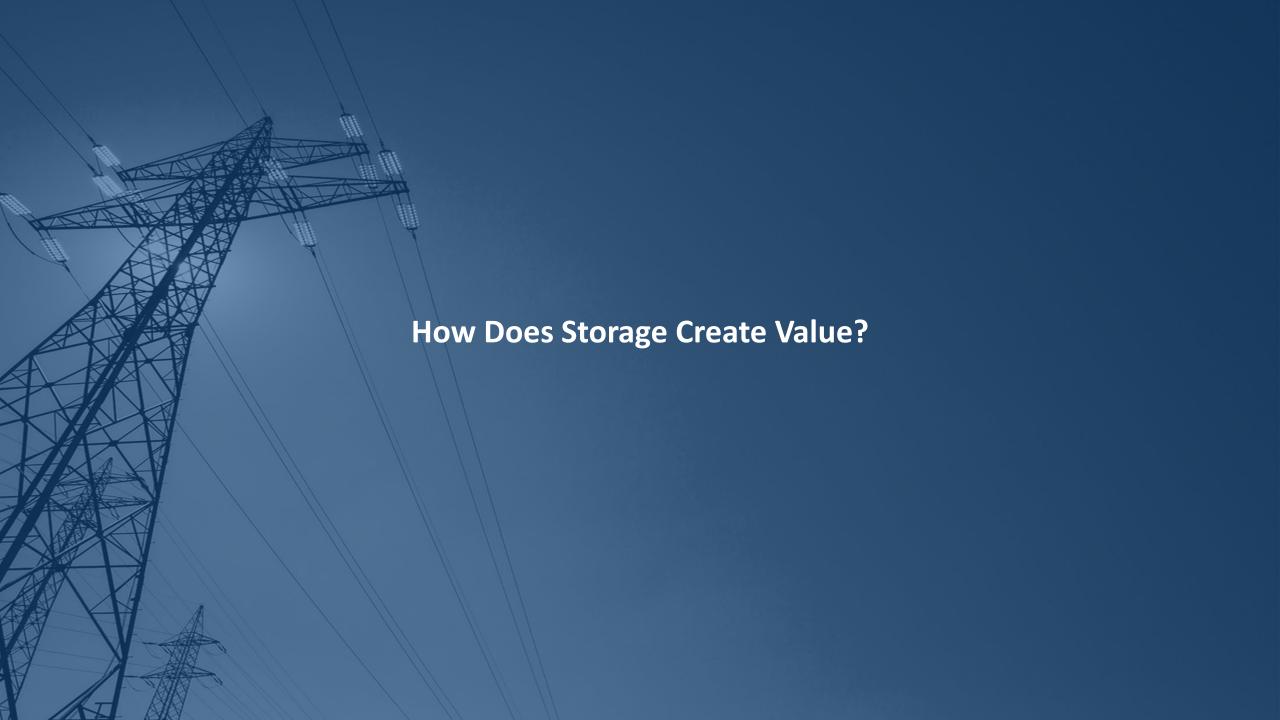
Energy Volatility Will Continue: Thermal Out, Renewables & Batteries In



- CAISO has 14 GW of wind, 48 GW of solar, and 58 GW of batteries currently in its interconnection queue
- In addition to roughly 7 GW of announced thermal retirements there are 6 GW of potential economic and legislative retirements over the next 10 years, causing a loss of 7-13 GW across the ~50 GW peak market
- New storage must offset not only both existing and new renewables, but also thermal generation retirements.
 - Volatility is already high with the current thermal fleet. Thermal retirements will push market volatility even higher and drive a continued need for flexible storage.

CAISO Interconnection Queue from: http://www.caiso.com/planning/Pages/GeneratorInterconnection/Default.aspx

Retirements from: https://www.eia.gov/electricity/data/eia860m/

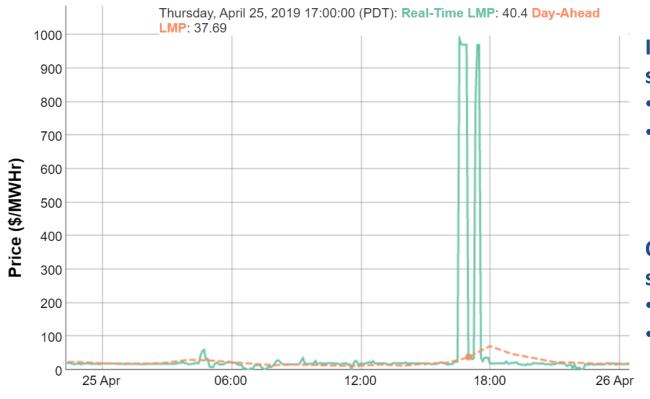


Revenue Opportunities: Real-Time Energy Price Spikes

- Q. How does storage make money with energy optimization?
- A. Physically operate to the volatile 5 min market by charging low or negative and sell high. When prices are relatively flat, sell ancillary services.
- Q. How does volatility in price drive value for storage?
- A. The greater the up-down movement in prices, the greater the revenues from real-time energy optimization.

Greater volatility provides sustained opportunity in areas with long development lead times and significant growth in renewables.





Importance of price spikes:

- Occur ~1.5% of time
- Represent 22% of average price and 30% of retail costs because of demand coincidence

Opportunity of chasing spikes:

- Provide ancillaries
- Energy Prices:
 Day-ahead (hourly) and
 Real-time (5/15-minute)

RT 5 min energy prices spike (positive and negative) for 5 to 20 minutes. DA prices are less volatile.

Increasing intermittent renewables are driving up RT and DA volatility

Definition:

LMP = locational marginal price or Pnode price



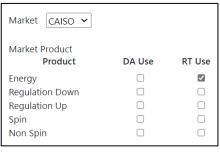
Value Stacking of Storage for Day-ahead (DA) + Real-time (RT) Markets

- Ancillary Services
 - Regulation DA
 - o 10-min Spin or response reserve service

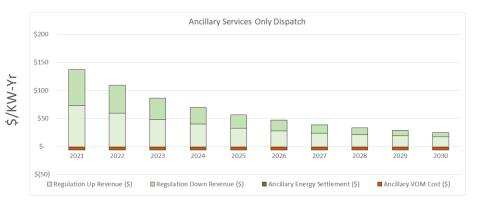
- Energy
 - Real-time
 - Day-ahead
 - DA and RT

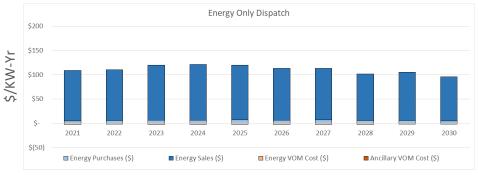
- Q. How does value stacking reduce risk and increase revenue?
- A. By dispatching storage across multiple commodities (energy and ancillaries), storage realizes greater revenue and earns insurance premium for DA vs RT price spreads.

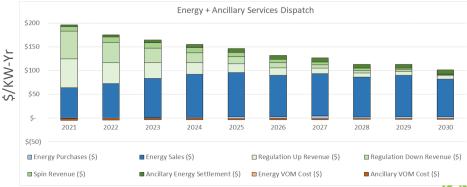








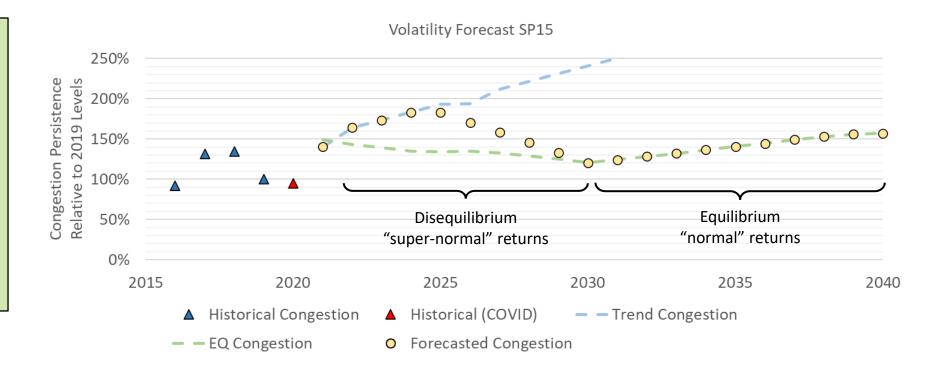




- o RT
- DA and RT

Projected SP-15 Volatility

- Q. How does market timing create value? Won't storage deployment reduce volatility?
- A. The rapid structural change of power markets is creating opportunity for early entrants to earn "super-normal" returns for projects in locations with high price volatility.



Forecast of volatility:

- In the near-term (years 1-4), volatility drives super-normal returns while the system is in disequilibrium and the volatility follows its empirical relationship with renewable penetration.
- In the medium-term (years 5-10), volatility is still sufficient to drive super-normal returns, but it tapers off to its long-run equilibrium* as more batteries enter the system and mitigate future growth in price spikes.
- In the long-term (years 10+), volatility is just sufficient to support entry of new BESS units at normal returns,* with volatility rising as ELCC and RA value declines

Storage progression path

- Q. What is the progression in relative economics to thermal gen for batteries?
- A. Begin with short-duration and high frequency movements for ancillary services (<1-hr) to long-duration firm capacity (> 4-hr). Today storage is 35% more expensive than conventional new gas capacity, but its flexibility can make it more economic in markets with high renewable penetration rates.

Storage Progression Path	Duration/	Timing as Economic	Definition
Ancillary Services	1 hr	2016-present	 Regulation of 1 min movements up or down in power to keep the system balanced. 10 Min spin in case of a large generator outage
Renewable integration and peak shaving	2 hr	2018-present	 Capturing market price spikes and serving energy during evening ramps
Firm capacity	4 - 6 hr	2018-present	 Providing energy over multiple hours during peak demand conditions.
Green "sun-down" energy	6 - 8 hr	2028	 Shifting energy from sunshine hours to sundown hours.

Clean Sundown Energy

\$ 61.9

Average HE 01-02, 19-24

- Q. How can long-duration storage provide value for clean energy for CCA's and their corporate customers (e.g., FB, Alphabet, Amazon, Microsoft,...)?
- A. i) Furnish clean capacity, ii) Hedge against ancillaries, and iii) Provide clean sun-down energy

Month-Hour Abs Short Volume [MWh]																								
	HE01	HE02	HE03	HE04	HE05	HE06	HE07	HE08	HE09	HE10	HE11	HE12	HE13	HE14	HE15	HE16	HE17	HE18	HE19	HE20	HE21	HE22	HE23	HE24
Jan	180	170	160	160	180	180	210	190	90	10	-	-	-	-	-	20	150	250	270	270	260	240	200	190
Feb	150	140	140	140	140	130	160	80	-	-	-	-	-	-	-	-	-	140	190	180	180	170	150	130
Mar	160	150	140	140	140	150	130	40	-	-	-	-	-	-	-	-	-	50	160	180	190	190	170	150
Apr	70	60	60	50	60	70	10	-	-	-	-	-	-	-	-	-	-	-	60	100	120	110	90	80
May	80	60	70	70	70	10	-	-	-	-	-	-	-	-	-	-	-	-	20	70	100	110	100	70
Jun	150	140	130	130	130	50	-	-	-	-	-	-	-	-	-	-	-	10	100	170	190	200	180	150
Jul	280	260	260	260	230	180	120	90	50	50	50	60	70	40	60	90	120	200	290	340	330	330	300	270
Aug	230	220	220	220	210	220	150	80	40	20	10	-	-	-	-	10	60	160	260	270	270	270	240	230
Sep	230	230	230	220	210	230	160	70	20	10	-	-	-	-	10	50	120	250	300	310	310	280	240	210
Oct	210	200	190	160	150	160	140	60	-	-	-	-	-	-	-	20	140	250	270	290	290	250	230	220
Nov	200	200	200	200	180	180	210	110	60	50	30	20	10	20	40	110	230	300	300	300	290	260	240	210
Dec	180	170	170	180	180	180	210	190	120	70	50	30	20	30	50	110	220	300	310	310	300	270	230	220

		Max	12x24 \$	/MWh	\$90	Min 1	2x24 \$/I	МWh	\$50	М	lin Short	tMW	10	Min Short	Rel. \$/MW	'h (\$	510)	Min HE 18	3-20 \$/MWh	\$55								
											Hou	ırly Wil	lingnes	s-to-Pay t	o Satisfy	Short	Positio	n										
	HE01	HE02	HE02 HE03 HE04 HE05 HE06 HE07								HE08 HE09 HE			HE11	HE12	HE12 HE13		HE14 HE15		HE16	HE17	HE18	HE19	HE20	HE21	HE22	HE23	HE24
Jan	\$ 50.0	\$ 50	.0 \$	50.0 \$	50.0	\$ 50.0	\$	50.0 \$	55.6	\$ 50.3	\$	50.0 \$	50.0	\$ -	\$ -	\$	- !	-	\$ -	\$ 50.0	\$ 50.0	\$ 66.2	\$ 71.5	\$ 71.5	\$ 68.8	\$ 63.5	\$ 55.0	\$ 55.0
Feb	\$ 50.0	\$ 50	.0 \$	50.0 \$	50.0	\$ 50.0	\$	50.0 \$	50.0	\$ 50.0	\$	- \$	-	\$ -	\$ -	\$	- !	-	\$ -	\$ -	\$ -	\$ 55.0	\$ 55.0	\$ 55.0	\$ 55.0	\$ 55.0	\$ 55.0	\$ 55.0
Mar	\$ 50.0	\$ 50	.0 \$	50.0 \$	50.0	\$ 50.0	\$	50.0 \$	50.0	\$ 50.0	\$	- \$	-	\$ -	\$ -	\$	- !	; -	\$ -	\$ -	\$ -	\$ 55.0	\$ 55.0	\$ 55.0	\$ 55.0	\$ 55.0	\$ 55.0	\$ 55.0
Apr	\$ 50.0	\$ 50	.0 \$	50.0 \$	50.0	\$ 50.0	\$	50.0 \$	50.0	\$ -	\$	- \$	-	\$ -	\$ -	\$	- !	; -	\$ -	\$ -	\$ -	\$ -	\$ 55.0	\$ 55.0	\$ 55.0	\$ 55.0	\$ 55.0	\$ 55.0
May	\$ 50.0	\$ 50	.0 \$	50.0 \$	50.0	\$ 50.0	\$	50.0 \$	-	\$ -	\$	- \$	-	\$ -	\$ -	\$	- !	-	\$ -	\$ -	\$ -	\$ -	\$ 55.0	\$ 55.0	\$ 55.0	\$ 55.0	\$ 55.0	\$ 55.0
Jun	\$ 50.0	\$ 50	.0 \$	50.0 \$	50.0	\$ 50.0	\$	50.0 \$	-	\$ -	\$	- \$	-	\$ -	\$ -	\$	- !	; -	\$ -	\$ -	\$ -	\$ 55.0	\$ 55.0	\$ 55.0	\$ 55.0	\$ 55.0	\$ 55.0	\$ 55.0
Jul	\$ 74.1	\$ 68	.8 \$	68.8 \$	68.8	\$ 60.9	\$	50.0 \$	50.0	\$ 50.0	\$	50.0 \$	50.0	\$ 50.0	\$ 50.0) \$	50.0	50.0	\$ 50.0	\$ 50.0	\$ 50.0	\$ 55.0	\$ 76.8	\$ 90.0	\$ 87.4	\$ 87.4	\$ 79.4	\$ 71.5
Aug	\$ 60.9	\$ 58	.2 \$	58.2 \$	58.2	\$ 55.6	\$	58.2 \$	50.0	\$ 50.0	\$	50.0 \$	50.0	\$ 50.0	\$ -	\$	- !	-	\$ -	\$ 50.0	\$ 50.0	\$ 55.0	\$ 68.8	\$ 71.5	\$ 71.5	\$ 71.5	\$ 63.5	\$ 60.9
Sep	\$ 60.9	\$ 60	.9 \$	60.9 \$	58.2	\$ 55.6	\$	60.9 \$	50.0	\$ 50.0	\$	50.0 \$	50.0	\$ -	\$ -	\$	- !	-	\$ 50.0	\$ 50.0	\$ 50.0	\$ 66.2	\$ 79.4	\$ 82.1	\$ 82.1	\$ 74.1	\$ 63.5	\$ 55.6
Oct	\$ 55.6	\$ 52	.9 \$	50.3 \$	50.0	\$ 50.0	\$	50.0 \$	50.0	\$ 50.0	\$	- \$	-	\$ -	\$ -	\$	- !	-	\$ -	\$ 50.0	\$ 50.0	\$ 66.2	\$ 71.5	\$ 76.8	\$ 76.8	\$ 66.2	\$ 60.9	\$ 58.2
Nov	\$ 52.9	\$ 52	.9 \$	52.9 \$	52.9	\$ 50.0	\$	50.0 \$	55.6	\$ 50.0	\$	50.0 \$	50.0	\$ 50.0	\$ 50.0) \$	50.0	50.0	\$ 50.0	\$ 50.0	\$ 60.9	\$ 79.4	\$ 79.4	\$ 79.4	\$ 76.8	\$ 68.8	\$ 63.5	\$ 55.6
Dec	\$ 50.0	\$ 50	.0 \$	50.0 \$	50.0	\$ 50.0	\$	50.0 \$	55.6	\$ 50.3	\$	50.0 \$	50.0	\$ 50.0	\$ 50.0) \$	50.0	50.0	\$ 50.0	\$ 50.0	\$ 58.2	\$ 79.4	\$ 82.1	\$ 82.1	\$ 79.4	\$ 71.5	\$ 60.9	\$ 58.2
Average	\$ 54.5	\$ 53	.7 \$	53.4 \$	53.2	\$ 51.8	\$	51.6 \$	43.1	\$ 37.5	\$	25.0 \$	25.0	\$ 16.7	\$ 12.	5 \$	12.5	12.5	\$ 16.7	\$ 29.2	\$ 30.8	\$ 52.7	\$ 67.0	\$ 69.0	\$ 68.1	\$ 64.8	\$ 60.1	\$ 57.5
Rank	7	8		9	10	12	2	13	14	15	5	18	18	20) 2	.2	22	22	20	17	16	11	3	1	2	4	5	6
Total Sh	hape Value		\$	60.8																								
Average	e HE 19-22		\$	67.3																								

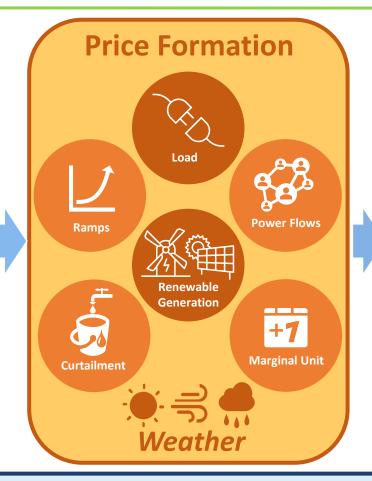


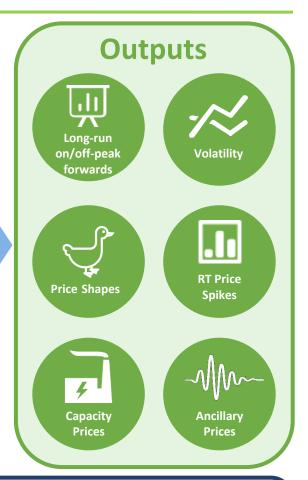
Ascend Analytics Fundamental Forecasting Framework











Fundamental Anchors



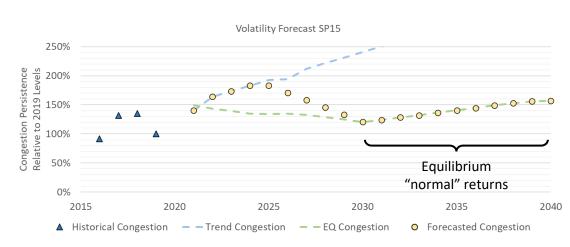


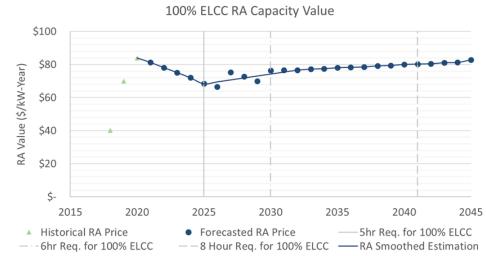


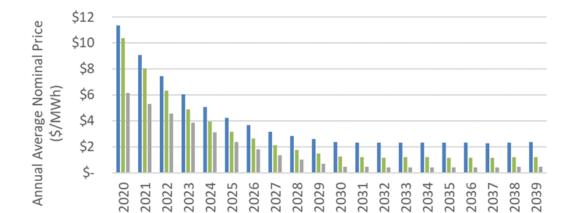




Long-Term Forecasts that Honor Long-Run Equilibrium

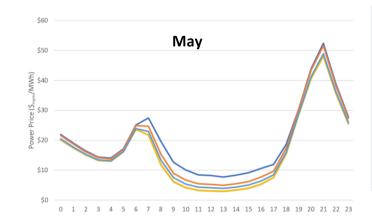






■ Reg Up ■ Reg Down ■ Spin

CAISO Ancillary Price Forecast



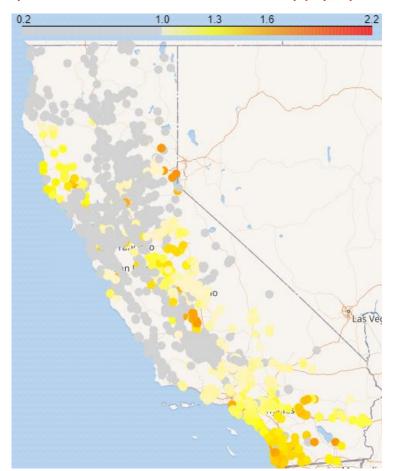
What will happen as storage deployment increases?

- Equilibrium volatility
- Equilibrium ancillary revenues
- Declining storage ELCC
- Equilibrium shapes

Accounting for Geographic Variability in the Long-Run

Step 1: Recognize that not all locations are created equally

Congestion persistence (volatility) indicates high renewable penetration, and/or limited supply options



Accounting for Geographic Variability in the Long-Run

Step 1: Recognize that not all locations are created equally

Congestion persistence (volatility) indicates high renewable penetration, and/or limited supply options Step 2: Recognize history may not predict future (but it might)

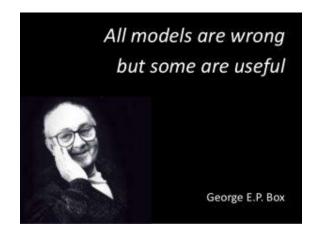
Solar-Weighted Basis indicates imbalance between supply & demand

Negative basis indicative of open space, low population density => ease of adding storage & transmission



Forecasting - Key Takeaways

- The power sector is at an inflection point, making history (and the present) poor predictors for the future
- A base forecast should align to the best expectation of future conditions (rather than continuation of the status quo)
- Forecasts (and forecasters) should have an answer for how structural changes to the market are being accounted for
- Forecasts should adhere to long-run equilibrium in a competitive market
- Ascend's forecasts do these things







Contact Information

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Headquarters:

1877 Broadway St Suite 706 Boulder, CO 80302 303.415.1400



February 23, 2021

Interim General Manager and Board of Directors California Community Power

RE: Formation of California Community Power and Development of Policies

Dear Interim General Manager and Board of Directors:

The Sierra Club writes to express its support for California Community Power's (CCP) purpose to combine the buying power of multiple Community Choice agencies to procure new clean energy resources that will help meet local and state climate mandates. Unfortunately, we are also disappointed to learn that the formation of CCP was done without much transparency, and that the Sierra Club and its members, many of whom played a key role in supporting the growth of Community Choice, were not given an opportunity to provide feedback on the process and what an agency like this could look like.

However, Sierra Club and its members and supporters are still Community Choice customers, and we wish to work with CCP to ensure its success. To that end, we recommend the Board and the Interim General Manager work with environmental, labor, and community stakeholders to draft a proposal for Board consideration, rather than having the process be worked through CCP's internal discussions. This will go a long way in building trust between CCP and impacted stakeholders and communities, and create community buy-in for a CCP that reflects our values.

Echoing many of the points other stakeholders have made in which policies should be considered, the Sierra Club also suggests the following:

I. Environmental

- CCP must prioritize projects that demonstrate multiple benefits, such as public health, economic, or environmental benefits beyond the climate and greenhouse gas reduction benefits.
- CCP must prioritize projects located in areas designed as renewable energy zones, and have received required land use entitlement permits.
- CCP must avoid projects located in high conflict areas, projects that have not gone through review under the California Environmental Quality Act, or do not have their relevant land use permits approved.
- CCP must exclude unbundled renewable energy credits from any type of procurement.
- CCP must not purchase, even for the purposes of selling to other entities, fossil fuel or nuclear resources, including those considered backup resources.

II. Workforce Development

- CCP must procure, or at minimum prioritize, energy projects that use multi-trade project labor agreements, require prevailing wage, support and utilize state-certified apprenticeship programs, including the utilization of local apprentices and graduates of pre-apprenticeship programs, and targeted-hired.
- CCP must require all battery storage projects, whether they are paired by solar or another renewable resource or not, to utilize C-10 licensees as defined by the California Standards Licensing Board.

III. Environmental Justice

 CCP must prioritize projects that are located within environmental justice communities and can demonstrate public health, climate, workforce and other community benefits to environmental justice communities.

IV. Geographical Preference

 CCP shall first give a preference to projects that are located in a county or city that receives electric service from one or more of the CCP members, then to projects that are located in Northern California, and then to projects that are located within California.

V. Transparency and Public Engagement

 CCP must establish a meaningful, advisory committee that is composed of stakeholders and community members to ensure transparency and public engagement in CCP's operations and procurement practices.

These policies must be in place before CCP goes out and begins procuring power, and the relevant policies must be used as a way to evaluate the many different projects bids CCP would receive. The principles of many of the founding members, including the values of the community, are not something to be used as negotiating chips.

The Sierra Club appreciates the opportunity to comment. We urge you to move quickly in preparing a set of draft policies that reflect the above, and that the process between preparing a draft for Board consideration and Board approval is inclusive of impacted stakeholders.

Sincerely,

Luis Amezcua Senior Campaign Representative

cc: Central Coast Community Energy, East Bay Community Energy, MCE, Peninsula Clean Energy, Redwood Coast Energy Authority, San Jose Clean Energy, Silicon Valley Clean Energy, Sonoma Clean Power, CleanPowerSF

ADAMS BROADWELL JOSEPH & CARDOZO

A PROFESSIONAL CORPORATION

ATTORNEYS AT LAW

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March 16, 2021

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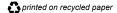
> Re: Letter on Behalf of IBEW Locals 6 and 617; March 17, 2021 Agenda Item 6(B): Discussion of Draft Policies Document

Dear Chair and Board Members:

I am writing on behalf of International Brotherhood of Electrical Workers Union Locals 6 and 617 to comment on Agenda Item 6(B), the Discussion of Development of Draft Policies Document for California Community Power ("CC Power"). Local 6 and Local 617 support the adoption of formal California Community Power ("CC Power") policies to ensure that CC Power will seek to award contracts and negotiate contract terms that support local hire, support local business, support union labor and apprenticeship programs that create employment opportunities, support maintaining area construction wage standards, support inclusive business practices, and ensure consideration of environmental and equity impacts when entering into agreements that will result in the siting of new power plants and energy storage facilities. They also support having CC Power adopt policies against negotiating agreements for unbundled renewable energy credits.

While Locals 6 and 617 are pleased that the Draft Policies address a number of these issues, the proposed workforce policies are vague and leave out most projects that will be developed by CC Power. In particular, the Draft Policies fall short on what is needed to ensure that power and energy storage procurement agreements include provisions to support construction workers and construction workforce development.

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I. Prevailing Wage Policy Is Limited to Projects Already Required to Pay Prevailing Wages

The Draft Policy document states that CC Power will require prevailing wages and promote the use of a skilled and trained workforce in "direct hiring and contracting." This proposal lacks meaning as currently drafted.

First, as a public agency, CC Power already has to pay prevailing wages to any construction work that it directly contracts out.

Second, it is unclear what CC Power means by "promote the use of a skilled and trained workforce." A "skilled and trained workforce" is a term of art defined by state statute which ensures that a certain percentage of any construction workforce are highly trained apprentice school graduates. An agency either requires compliance with this requirement or it does not. A policy to "promote" the use of a skilled and trained workforce has no meaning.

Third, the vast majority of projects that CC Power is likely to develop are not projects that would involve CC Power *directly* contracting for construction work. Most projects are likely to be power purchase or energy storage procurement agreements in which a private entity will own and contract out for the construction of the power plant or energy storage facility. Construction of these projects would not be subject to prevailing wage unless CC Power adopts a policy requiring bidders on all power purchase agreements, energy storage agreements, or energy efficiency program agreements developed or negotiated by CC Power to agree to pay prevailing wages for construction work contracted in order to fulfil the terms of the procurement agreement.

In order to clarify that prevailing wage applies to procurement projects, the Draft Policy on prevailing wage should be amended to state:

CC Power shall require bidders on all CC Power projects to pay prevailing wages and employ a skilled and trained workforce for construction work, including any construction work contracted by third parties in order to fulfil the terms of the CC Power project. CC Power projects shall include, but not be limited to, power purchase agreements, energy storage agreements, or energy efficiency program agreements developed or negotiated by CC Power and entered into by more than one of CC Power's individual CCA members.

II. Project Labor Agreement Policy Needs Further Clarity and Needs to Be Expanded to Cover More Projects

The Draft Policies include a policy that "CC Power-developed projects that are greater than 20 MW in size will be procured with a preference for projects constructed through a multi-trade project labor agreement or through multiple such agreements, and each construction contractor or subcontractor or sub-contractor performing work on any such CC Power-developed project shall use a combination of local labor, union labor or apprenticeship programs, and shall follow fair compensation practices, including proper assignment of work to crafts that traditionally perform work." Locals 6 and 617 have several concerns with this provision.

First, the term "CC Power-developed projects" is currently undefined. This term should be expressly defined to clarify that such projects include any projects developed or negotiated by CC Power and entered into by more than one of CC Power's individual CCA members, including power purchase agreements, energy storage agreements, or energy efficiency program agreements.

Second, the procurement "preference" for projects constructed under a multitrade agreement or agreements should be clarified as applying to CC Power-developed projects constructed by third parties in order to fulfill the terms of a power purchase agreement, energy storage agreement, or energy efficiency program agreement. CC Power-developed projects that are owned, or whose construction is directly contracted by, CC Power or more than one of CC Power's individual CCA members should be "required" to be constructed under a multi-trade agreement or agreements. Such a requirement is legally permissible under Public Contract Code section 2500.

Third, this provision requires clarification that the requirement to follow fair compensation practices is a requirement, not a procurement preference, and that fair compensation practices includes payment of prevailing wages.

Fourth, the 20 MW threshold needs to be eliminated or changed to a dollar threshold. Most utility scale solar projects are below 5 MW and it is unclear how that threshold would apply to energy storage projects or large-scale efficiency projects.

III. Conclusion

Local 6 and Local 617 thanks CC Power staff for starting the discussion on these policy principles. These proposals are moving in the right direction, but require a few substantive changes to ensure they are meaningful, clear and do not provide loopholes and exceptions for energy and storage procurement projects.

Sincerely,

Thomas A. Enslow

Thomas 95

TAE:ljl

















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Re: Agenda Item 6B – Ad Hoc Committee Report, Policy Development

Discussion on Draft Policies Document

Honorable Members of the Board of Directors:

This letter is written on behalf of the Building Trades Councils located in San Francisco, San Mateo, Santa Clara, San Benito, Monterey, Santa Cruz, Alameda, Contra Costa, Napa, Solano, Marin, Sonoma, Mendocino, and Lake Counties ("Bay Area Building Trades Councils"). The Bay Area Building Trades Councils collectively represent over 100 different Building Trades Unions, and over 200,000 rank and file union construction workers living in the Bay Area. By this letter, the Bay Area Building Trades Councils address Agenda Item 6B on the California Clean Power ("CCP") Board Meeting agenda for March 17, 2021, regarding a draft policy for renewable energy construction projects (hereinafter referred to as the "Policy").

The Bay Area Building Trades Councils commend CCP for its consideration of a policy that will apply to projects constructed by or for Community Choice Aggregation ("CCA") energy providers. As you know, renewable energy projects in California provide an essential opportunity for workforce training and investment in the local economy. By adopting a robust and meaningful policy, CCP will ensure that covered projects employ local residents, use local businesses, and support union labor and apprenticeship programs that train the next generation of construction workers to build renewable energy projects.

Many CCAs that are members of CCP have already adopted robust community development initiatives and experienced successful results. For example, Peninsula Clean Energy, Marin Clean Energy, and East Bay Community Energy have adopted progressive policies that require payment of prevailing wages, use of community workforce agreements, and use of a "skilled and trained workforce" that has graduated from state-approved apprenticeship programs. The Bay Area Building Trades Councils now urge CCP to adopt a policy that builds upon these principles and advances the interests of working people in California.

The Bay Area Building Trades Councils have reviewed the Draft Policies Document, and herein recommend certain changes and additions that will strengthen CCP's community development goals. We have also reviewed the correspondence submitted by International Brotherhood of Electrical Workers Locals 6 and 617, affiliates of the San Francisco and San Mateo Building Trades councils, and strongly support the points and recommendations made therein.

I. Recommendations

First and foremost, the Bay Area Building Trades Councils propose inclusion of clear language at the outset of the Policy indicating that the Policy applies to all construction projects developed either by CCP or a CCA, or by a third party that has entered into a contract with CCP or a CCA, for example an energy purchase agreement, power purchase agreement, or professional service contract.

Second, although payment of prevailing wages is required by law for projects funded in whole or in part by public funds, ¹ it is important to clarify that all projects covered by the Policy will require payment of prevailing wages and compliance with the Public Works Laws in the Labor Code, including the employment of apprentices and submission of certified payroll records. Furthermore, in the unlikely event prevailing wages are not required by law for a particular covered project, this would ensure payment of prevailing wages as a matter of contract.

Third, the Policy should instruct the applicable contractor or third party to negotiate a community workforce agreement with the Building Trades Council in the area of the covered project. A community workforce agreement is a type of project labor agreement that includes provisions

March 17, 2021

prioritizing the employment of local residents and recruitment of targeted individuals into apprenticeship readiness programs. In particular, the Policy should require that the community workforce agreement create and/or facilitate a pipeline to apprenticeship from MC3-certified pre-apprenticeship programs.

Fourth, the Policy should require all contractors to use a "skilled and trained workforce," as defined by Public Contract Code section 2601. This effectively ensures that all workers on covered projects either graduated from a state-approved apprenticeship program or have the equivalent number of hours experience in the trade. In addition, all apprentices must be enrolled in a state-approved apprenticeship program. This is both a workforce development policy and a safety standard, as a well-trained workforce will construct the project safely, competently, and efficiently.

The Bay Area Building Trades Councils support inclusion of the language proposed by Locals 6 and 617 in their correspondence dated March 16, 2021, to facilitate the above-mentioned policy goals.

II. Modifications to Draft Policy

In addition to incorporating the above-identified policy priorities, the Bay Area Building Trades Councils recommend the following specific changes to the Draft Policy contained in Agenda Item 6B.

Depending on how it is used, the term "local" should apply to the area of the covered project, rather than the service area. For example, where a community workforce agreement will be negotiated with the "local" Building Trades Council or there is a preference for "local" workers, the covered project location should be used.

The "Procurement" and "Geographical Preference" sections appear contrary to state law requirements. In addition, different policies and legal requirements apply depending on whether the project is publicly or privately owned. It would be best to simply refer to CCP's procurement policies and the relevant statutes that apply.

The language referencing multiple trade agreements should be removed. It maximizes efficiency to have a single community workforce agreement with the appropriate Building Trades Council.

Finally, the limitation of the community workforce agreement or project labor agreement to projects "greater than 20MW in size" should be removed, as this would conflict with the above recommendations, and would also exclude the majority of covered projects and effectively render the requirement ineffective.

III. Conclusion

The Bay Area Building Trades Councils sincerely appreciate CCP's efforts to develop a policy that will help working people and support the local construction industry. We encourage CCP to incorporate the above recommendations into its final Policy, including by requiring a community workforce agreement for covered projects.¹ We would be glad to work with CCP to finalize this effort.

Sincerely,

Andreas Cluver

Secretary-Treasurer, Alameda County Building & Construction

Trades Council

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¹ We recommend that CCP review the policy adopted by the Bay Restoration Authority as a potential model. The policy is available here: http://sfbayrestore.org/sites/default/files/2019-05/pla_resolution.pdf.

COMMONLY USED ACRONYMS AND KEY TERMS

AB xx - Assembly Bill xx

ALJ - Administrative Law Judge

AMP- Arrears Management Plans

AQM – Air Quality Management

BAAQMD - Bay Area Air Quality Management District

CAC – Citizens Advisory Committee

CAISO – California Independent System Operator

CalCCA – California Community Choice Association

CAM - Cost Allocation Mechanism

CARB - California Air Resources Board, or California ARB

CARE- California Alternative Rates for Energy Program

CBA - California Balancing Authority

3CE- Central Coast Community Energy (Formerly Monterey Bay Community Power-MBCP)

CCA – Community Choice Aggregation (aka Community Choice Programs (CCP) or

CCE – Community Choice Energy (CCE)

CCP – Community Choice Programs

CEC – California Energy Commission

CPP- Critical Peak Pricing

CPSF - Clean Power San Francisco

CPUC - California Public Utility Commission (Regulator for state utilities)

CSGT - Community Solar Green Tariff

DA - Direct Access

DAC-GT - Disadvantaged Communities Green Tariff

DER - Distributed Energy Resources

DG - Distributed Generation

DR - Demand Response

DRP – Demand Response Provider

DRP/IDER - Distribution Resources Planning / Integrated Distributed Energy Resources

EBCE – East Bay Community Energy

ECOplus – PCE's default electricity product, 50% renewable and 90% GHG-free (in 2019)

ECO100 – PCE's 100% renewable energy product

EDR – Economic Development Rate

EE – Energy Efficiency

EEI – Edison Electric Institute; Standard contract to procure energy & RA

EIR – Environmental Impact Report

ELCC – Effective Load Carrying Capability

ESP - Electric Service Provider

ESS – Energy Storage Systems

ERRA - Energy Resource Recovery Account

EV - Electric Vehicle

EVSE – Electric Vehicle Supply Equipment (Charging Station)

FERA- Family Electric Rate Assistance Program

FERC - Federal Energy Regulatory Commission

FFS – Franchise Fee Surcharge

GHG - Greenhouse gas

GHG-Free - Greenhouse gas free

GTSR – Green Tariff Shared Renewables

IDER - Integrated Distributed Energy Resources

IOU – Investor Owned Utility (e.g PG&E, SCE, SDG&E)

IRP - Integrated Resource Plan

ITC – Investment Tax Credit (it's a solar tax credit)

JCC – Joint Cost Comparison

JPA – Joint Powers Authority

kW – kilowatt (Power)

kWh - Kilowatt-hour (Energy)

LIHEAP- Low Income Home Energy Assistance Program

Load Shaping – changing when grid energy is used

LSE – Load Serving Entity

MCE - Marin Clean Energy

Methane Gas- formerly known as 'natural gas'

Microgrid – building or community energy system

MW – Megawatt (Power) = 1000 kW

MWh - Megawatt-hour (Energy) = 1000 kWh

MUD - Multi-unit Dwelling

NBCs – non-bypassable charges

NEM – Net Energy Metering

NERC - North American Electric Reliability Corporation

NDA – Non-Disclosure Agreement

NG – Natural Gas

OES – Office of Emergency Services

OIR - Order Instituting Rulemaking

PCC - Portfolio Content Category (aka "buckets") - categories for RPS compliance

PCC1 – Portfolio Content Category 1 REC (also called bucket 1 REC)

PCC2 – Portfolio Content Category 2 REC (also called bucket 2 REC)

PCC3 – Portfolio Content Category 3 REC (also called bucket 3 REC or unbundled REC)

PCE – Peninsula Clean Energy Authority

PCIA – Power Charge Indifference Adjustment

PCL - Power Content Label

POU – Publicly Owned Utility

PPA - Power Purchase Agreement

PSPS – Public Safety Power Shutoff

PV – Photovoltaics (solar panels)

RA – Resource Adequacy

RE – Renewable Energy

REC - Renewable Energy Credit/Certificate

RICAPS - Regionally Integrated Climate Action Planning Suite

RPS - California Renewable Portfolio Standard

SB xx - Senate Bill xx

SCP - Sonoma Clean Power

SJCE - San Jose Clean Energy

SMD - Share My Data, interval meter data

SQMD – Settlement Quality Meter Data

SVCE – Silicon Valley Clean Energy

TNCs – Transportation Network Companies (ridesharing companies)

TOU RATES - Time of Use Rates

VGI – Vehicle-Grid Integration

V2G - Vehicle-to-Grid

VPP – Virtual Power Plant

WECC – Western Energy Coordinating Council

WREGIS – Western Renewable Energy Generation Information System

WSPP – Western Systems Power Pool; standard contract to procure energy and RA