



**REGULAR MEETING of the Citizens Advisory Committee of the  
Peninsula Clean Energy Authority (PCEA)  
Thursday, August 17, 2017**

San Mateo County Office of Education, Corte Madera Room  
101 Twin Dolphin Drive, Redwood City, CA 94065  
6:30 p.m.

*Meetings are accessible to people with disabilities. 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](mailto:abartoletti@peninsulacleanenergy.com). Notification in advance of the meeting will enable the PCEA to make reasonable arrangements to ensure accessibility to this meeting and the materials related to it. Attendees to this meeting are reminded that other attendees may be sensitive to various chemical based products.*

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**WELCOME**

**ROLL CALL**

**PUBLIC COMMENT**

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

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**ACTION TO SET AGENDA AND APPROVE CONSENT AGENDA**

This item is to set the final regular agenda.

## **REGULAR AGENDA**

1. Outreach Report (Discussion) (est. 30 min.)
2. Presentation on Energy Efficiency by Office of Sustainability (Discussion) (est. 30 min.)
3. November and December Meeting Dates (Action) (est. 5 min.)
4. Chair Report (Discussion) (est. 5 min.)
5. Local Programs Options (Discussion) (est. 30 min)
6. PCE Local Program Criteria Development (Discussion) (est. 35 min.)
7. Review Draft Board Agenda (Discussion) (est. 10 min.)

## **CONSENT AGENDA**

8. Approval of the Minutes of the July 20, 2017 Meeting (Action)

Public records that relate to any item on the open session agenda for a regular Committee 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 Committee. The Board has designated the Peninsula Clean Energy office, located at 555 Marshall St, 2<sup>nd</sup> Floor, Redwood city, CA 94063, for the purpose of making those public records available for inspection. The documents are also available on the PCEA's Internet Web site. The website is located at: <http://www.peninsulacleanenergy.com>.

## Peninsula Clean Energy and Local Programs

August 4, 2017

*Note: This paper was written by Michael Closson and Ted Howard, who serve on the Peninsula Clean Energy Citizens Advisory Committee. This paper represents their views and not necessarily the views of Peninsula Clean Energy.*

During the launch phase (the first year or two), Community Choice Energy (CCE) programs concentrate upon hiring staff and acquiring electricity, both renewable and non-renewable, from remote locations via long-distance transmission lines. This stage, sometimes referred to as CCE 1.0, is a time for a program to become established operationally and financially.

Once a CCE organization is underway however, it can move into a second stage, sometimes called CCE 2.0. In this stage, CCEs can start developing local programs that further reduce their service areas' carbon emissions, create new local jobs, increase their visibility and generate new revenue. The technical name for such programs is "Distributed Energy Resources." DERs include a variety of energy generating and energy saving services and technologies that can be provided locally by a CCE program and its member jurisdictions. In addition to directly benefiting a CCE program, DERs can also benefit the overall energy system by reducing pressure on the electricity grid thereby helping avoid costly upgrades to grid infrastructure.

DERs are often located close to demand centers, to minimize impacts from broader power outages. Also, DERs typically are more flexible, and have faster response times, than are traditional generation facilities. The diversity of these numerous smaller and distributed resources can provide greater grid reliability and stability than centralized fossil-fuel power plants. Furthermore, a highly specialized DER design can minimize the costs for such installations.<sup>1</sup>

Here are some primary types of DER:

- **Distributed Generation** — renewable energy generated in or nearby a CCE's service area — e.g. residential rooftop, community-scale installations, or utility-scale solar installations.<sup>2</sup>
  - For example, Marin Clean Energy has six local solar projects on line or under construction.
- **Energy Storage deployment** — employing batteries, including electric vehicles, and other devices.<sup>3</sup>
- **Local Micro-Grid development** — e.g. to increase resilience at hospitals, community service centers, and other institutions.<sup>4</sup>
- **Energy Efficiency measures** — for homes, commercial buildings and industrial facilities.

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<sup>1</sup> Megan Geuss, "[Distributed energy sources can reduce cost of electricity up to 50%, study says](#)", article in ars technica, citing study published in Nature, "[Data-driven planning of distributed energy resources amidst socio-technical complexities](#)", July 17, 2017.

<sup>2</sup> A CCE program may choose to purchase some of this electricity using Feed-in Tariffs or through its standard power procurement process.

<sup>3</sup> Energy storage is increasingly being deployed in conjunction with distributed generation.

<sup>4</sup> Often done in tandem with distributed generation and energy storage.

- Marin Clean Energy has a proposal before the California Public Utilities Commission (CPUC) to become the Program Administrator (replacing PG&E as the default provider) of energy efficiency programs in its service territory.
- **Demand Response programs** — utilizing both hardware and software, that enable utilities (and CCEs) to efficiently manage electricity flows to take advantage of when prices are lowest or to reduce grid congestion, using home and business energy management systems.
- **Cogeneration**—also known as combined heat and power, enables the heat normally lost in power generation to be recovered for heating or cooling.

**One cogent strategy involving DERs is fuel switching**, which typically involves shifting from gas power to electric power in homes and businesses, and replacing gasoline-powered vehicles with EVs.<sup>5</sup>

- For example, Sonoma Clean Power recently teamed with Nissan and BMW to offer rebates on EV purchases.
- Another example being considered by a number of CCEs is heat pumps, which have great potential in California.

There are a lot of DER options to choose from so it is important for a CCE to develop some criteria to help it select the local programs that are best for it. As DER aggregation<sup>6</sup> from different points of interconnection to the distribution grid (sold in the wholesale market in aggregate) becomes widespread, a single virtual point of interconnection will enable even greater DER integration for larger and more diverse local programs.

Also, government policy-makers at the California Public Utilities Commission (CPUC), California Energy Commission (CEC), and the California Independent System Operator (CAISO) are focusing on determining the locational and temporal net benefits of DERs, which will (along with several other regulatory proceedings) be utilized to establish DER guidelines directly impacting CCE programs.

**Here are the criteria tentatively identified by Peninsula Clean Energy staff as of August 1<sup>st</sup>, 2017:**

Proposals would be required to address these criteria:

- Reduces GHG emissions
- Cost effectiveness (to keep ECOplus rates lower than PG&E)
- Number of customers served
- Geographic diversity in San Mateo County communities served
- Supports PCE’s workforce policy (that has multiple sub-criteria including prevailing wage, working with local companies, and more)

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<sup>5</sup> This activity is often called “electrification.”

<sup>6</sup> A DER Provider, as defined by the California Independent System Operator (CAISO), is a market participant that aggregates one or more small distribution-connected energy resources totaling at least 0.5 MW, from either in front of, or behind, the customer meter.

- Helps PCE match supply to load, e.g. addresses duck curve

Proposals could add points by addressing these criteria:

- Contributes toward goal of creating 20 MW of new local power by 2025
- Contributes toward goal of 100% GHG-free power for 2021
- Contributes toward goal of 100% renewable energy by 2025
- Benefits disadvantaged communities
- Helps inform customers about PCE
- Innovative, scalable, and replicable
- Fills a gap in current utility offerings

**Here are the criteria tentatively identified by Silicon Valley Clean Energy staff as of July 25<sup>th</sup>, 2017:**

- GHG reduction — directly measurable and attributable carbon reduction (and addressable potential)
- Unit Cost — SVCE unit cost of GHG reductions, after leverage of third party resources
- Time to Value — speed, level and likelihood of achieved customer value
- Grid Performance — improved grid resources and demand alignment to optimize use of clean energy
- Community Engagement — local stakeholder sponsorship, beneficial visibility within the community
- Market Transformation — uniquely addresses critical need(s) in development of essential new markets

## Appendix

### **Silicon Valley Clean Energy's suggested local programs using the above criteria:**

- Greenhouse Gas Inventory — Collect GHG data (energy and transportation emissions) in service area to document 2015 baseline and establish targets for further reductions
- Connected Homes Energy and Demand Management — Reduce GHG emissions through home energy management by curtailing electric load during summer peaks and reducing gas heating during winter to reduce natural gas consumption. Using rebates and automated home thermostats.
- Commercial Demand Management — Mirror existing PG&E demand response program, called Peak Day Pricing, including penalties for using more electricity on peak event days and rewards for minimizing usage when grid is congested.
- Multiple Unit Dwelling (MUD)/Workplace EV Charging Assistance — Implement 100 charging points at ten sites vetted for meter location, parking location, ADA, and feasibility.
- EV Pilot Program — Work with dealers to provide rebates for EVs and develop a user-friendly platform for customers to purchase or lease EVs.
- EV Seed Program — Place ten used EVs plus charging stations and ride share app in mobile home parks and MUDs across SVCE's service area.
- Heat Pump Water Heaters — Increase the adoption of HPWHs by providing cash incentives and technical guidance to developers and installers. (Focus on new construction?)
- eBike Share Pilot — Collaborate with manufacturers and bike share companies on this. Locate bike sharing/charge points on corporate campuses.
- Commercial vs. Utility Scale Battery Storage Study — Commission a study to compare battery storage facilities at large commercial customers versus a utility-scale storage system.
- Direct Access Local Customer Pilot — Attract Direct Access customers to SVCE by offering comparable rates but a higher clean energy content.
- Model Ordinances — Draft template ordinances focused on electrification and decarbonization for SVCE's member communities to more easily adopt.
- Decarbonization Workshop Series — Four times per year on new technologies to improve energy efficiency, demand management, and fuel switching, etc.
- Residential Education Program — Classes on energy and energy saving.



**REGULAR MEETING of the Board of Directors of the  
Peninsula Clean Energy Authority (PCEA)  
Thursday, August 24, 2017**

Peninsula Clean Energy, 2075 Woodside Road,  
Redwood City, CA 94061  
6:30 p.m.

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**CALL TO ORDER / ROLL CALL**

**PUBLIC COMMENT**

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**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. Marketing and Outreach Report (Discussion)
5. Regulatory and Legislative Report (Discussion)
6. Audit and Finance Committee Report (Discussion)
7. Approve Product Content Label (Action)
8. Review Draft Integrated Resource Plan (IRP) (Discussion)
9. Board Members' Reports (Discussion)

## **CONSENT AGENDA**

10. Approval of the Minutes for the July 27, 2017 Meeting (Action)
11. Authorize the Chief Executive Officer to execute a WSPP (Western Systems Power Pool) Master Power Purchase and Sale Agreement and Confirmation Letter for Purchase of Resource Adequacy from Calpine Energy Services, L.P. Delivery Term: January 2018 through December 2018, in an amount not to exceed \$3,000,000 (Action)
12. Authorize the Chief Executive Officer to execute a WSPP (Western Systems Power Pool) Master Power Purchase and Sale Agreement and Confirmation Letter for Purchase of Resource Adequacy from Wellhead Power Exchange, LLC. Delivery Term: January 2018 through December 2018, in an amount not to exceed \$250,000 (Action)
13. Authorize the Chief Executive Officer to execute WSPP (Western Systems Power Pool) Confirmation Letters for Purchase of Resource Adequacy from Tenaska Power Services, Co. Delivery Term: January 2018 through December 2018, in an amount not to exceed \$2,000,000 (Action)
14. Approve an Amendment to the Agreement Between the County Counsel and the Peninsula Clean Energy Authority for the Provision of General Legal Services, increasing the term by two years and the amount by \$500,000. (Action)



15. Approve an Amendment to the Agreement Between Circlepoint and the Peninsula Clean Energy Authority for the Provision of Marketing Services, New Term: through the end of the fiscal year June 30, 2018, in an amount not to exceed \$85,000. (Action)

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**REGULAR MEETING of the Citizens Advisory Committee  
of the Peninsula Clean Energy Authority (PCEA)  
Thursday, July 20, 2017  
MINUTES**

101 Twin Dolphin Drive, Pine and Oak Room, Redwood City, CA 94065  
6:30 p.m.

**CALL TO ORDER**

Meeting was called to order at 6:32 pm.

**ROLL CALL**

**Present:** Liru Chin, South San Francisco  
Michael Closson, Menlo Park  
Janet Creech, Millbrae  
Gladwyn D'Souza, Belmont  
Joe Fullerton, Half Moon Bay  
Ted Howard, San Mateo  
Janelle London, Menlo Park  
KC McKanna, Menlo Park  
Jason Mendelson, Redwood City  
James Ruigomez, San Bruno  
Desiree Thayer, Burlingame

**Absent:** David Hahn, South San Francisco  
Scott Harmon, Portola Valley  
Emily Leslie, Pacifica  
Landis Marttila, Works in San Mateo County

**Staff:** Kirsten Andrews-Schwind, Communications and Outreach Manager  
Nirit Eriksson, Associate General Counsel  
Eric Weiner, Renewable Energy Analyst  
Anne Bartoletti, Board Clerk/Executive Assistant to the CEO

**A quorum was established.**

**PUBLIC COMMENT**

No public comment.

## **ACTION TO SET THE AGENDA**

Motion Made / Seconded: Creech / London

**Motion passed unanimously 10-0 (Absent: Hahn, Harmon, Leslie, Marttila, Ruigomez)**

## **REGULAR AGENDA**

### **1. SWEARING IN OF CITIZEN ADVISORY COMMITTEE MEMBERS**

Nirit Eriksson—Associate General Counsel for Peninsula Clean Energy (PCE)—performed the formal swearing in of three members of the Citizens Advisory Committee (CAC), Michael Closson, Gladwyn D’Souza, and Joe Fullerton.

### **2. COMMITTEE MEMBER SELF-INTRODUCTIONS**

Michael Closson, Gladwyn D’Souza, and Joe Fullerton, and PCE staff, introduced themselves and described their backgrounds.

### **3. ELECT COMMITTEE CHAIR**

Kirsten Andrews-Schwind—Communications and Outreach Manager—outlined the responsibilities of the Chair as liaison to the Board of Directors, and asked for nominations. Michael Closson was nominated for Chair by Ted Howard, seconded by Janet Creech.

**Motion passed unanimously 10-0 (Absent: Hahn, Harmon, Leslie, Marttila, Ruigomez)**

There was a general consensus that the Chair will need a Vice Chair as an Alternate or back-up representative. Liru Chin nominated Ted Howard for Vice Chair.

Motion Made / Seconded: Mendelson / Closson

**Motion passed unanimously 10-0 (Absent: Hahn, Harmon, Leslie, Marttila, Ruigomez)**

### **4. BROWN ACT TRAINING**

Nirit Eriksson presented information on the Brown Act as a transparency law and public participation law, outlining its rules and requirements.

## **5. DISCUSSION ON CAC OUTREACH AND PCE SUPPORT OF CAC**

Each Committee Member outlined the local organizations they belong to, and the community events in which they and PCE could participate. Kirsten Andrews-Schwind provided a handout that explains the PCE charges and the Generation Credit on the PG&E bills, and reported that Committee Members can get talking points from, and direct questions to, PCE staff.

Nirit Eriksson performed the formal swearing in of James Ruigomez upon his arrival.

## **6. PCE LOCAL PROGRAM CRITERIA DEVELOPMENT**

Kirsten Andrews-Schwind introduced the topic of local programs as a way for PCE to reinvest in the community. She explained that the development of criteria and a scoring process would provide PCE with a transparent process to determine which programs move ahead.

### **PUBLIC COMMENT**

James Tuleya  
Mark Roest, SeaWave

Committee Members shared a wide range of ideas on how to measure and evaluate programs, from energy efficiency to changing building codes. The Committee determined this discussion should continue at the next meeting.

## **7. REVIEW DRAFT BOARD AGENDA**

The Committee reviewed the draft agenda for the July 27th, 2017 Board meeting.

### **ADJOURNMENT**

Meeting was adjourned at 9:12 pm.