

AGENDA ITEM #5

TO: Environmental Commission

FROM: J. Logan, Staff Liaison

SUBJECT: Silicon Valley Clean Energy Authority (SVCEA)

RECOMMENDATION:

Receive updates on SVCEA Board of Directors and standing committee meetings

BACKGROUND

State and Local Mandates Community Choice Energy Council Actions Implementation of SVCEA in the Los Altos Community SVCEA Structure For a full review of the topics above, please assess the following link https://www.losaltosca.gov/sites/default/files/fileattachments/environmental_commission/meetin g/43111/5. svcea_2018.pdf

DISCUSSION

2018 Customer Program Advisory Group (CPAG) meeting recap:

SVCEA Board of Directors established a Customer Program Advisory Group. Vice Chair Weiden was appointed as a member to the group in December 2017. First meeting of CPAG was January17, 2018.

Vice Chair and CPAG member Don Weiden will provide an update.

2018 Member Agency Working Group (MAWG) meeting recap:

At the April 26, 2018 MAWG meeting, SVCE staff reminded the group of its engagement opportunities, Watts for Lunch on May 2, 2018 and Bike to the Future on May 5, 2018. A representative from DNV-GL consultants provided a status update on the GHG Emissions and Clean Energy Asset Inventory it is conducting for SVCE to establish standard, baseline metrics and to support member districts with GHG reporting and goals. The GHG Inventory Approach and Methodology is complete and was shared with the group in January 2018. Now, DNV-GL is calculating the Community GHG emissions for 2015 and 2017, conducting a clean energy asset baseline study, and a target market assessment. The Clean Energy Asset categories under review by DNV-GL include Energy Generation, Energy Usage, and Transportation. The target market assessment will focus on buildings, energy consumption by end use, and transportation. DNV-GL is awaiting 2017 electricity and natural gas data usage from 2017 and is submitting a request to the California DMV for data on EVs. Members of the CPAG attended the MAWG meeting to provide the group with a progress update; they shared their process of identifying SVCE program benefits and

program ideas. Finally, SVCE staff reviewed the BAAQMD HPWH grant proposal, providing highlights of the potential program and requesting jurisdictions submit letters of support to include with the grant packet by the May 11, 2018 deadline.

Attachment:

A. SVCEA Board of Directors May 11, 2018 meeting agenda and selected materials

ATTACHMENT A



Courtenay C. Corrigan, Chair Town of Los Altos Hills

Margaret Abe-Koga, Vice Chair City of Mountain View

Liz Gibbons City of Campbell

Rod Sinks City of Cupertino

Daniel Harney City of Gilroy

Jeannie Bruins City of Los Altos

Rob Rennie Town of Los Gatos

Marsha Grilli City of Milpitas

Burton Craig City of Monte Sereno

Steve Tate City of Morgan Hill

Dave Cortese County of Santa Clara

Howard Miller City of Saratoga

Nancy Smith City of Sunnyvale

svcleanenergy.org

333 W El Camino Real Suite 290 Sunnyvale, CA 94087 Silicon Valley Clean Energy Authority Board of Directors Meeting Wednesday, May 9, 2018 7:00 pm

> Cupertino Community Hall 10350 Torre Avenue Cupertino, CA

Director Gibbons will attend by teleconference from 55 Alder Lane, North Falmouth, MA 02556. Members of the public may provide testimony at the teleconference location.

AGENDA

Call to Order

Roll Call

Public Comment on Matters Not Listed on the Agenda

The public may provide comments on any item not on the Agenda. Speakers are limited to 3 minutes each.

Consent Calendar (Action)

1a) Approve Minutes of the April 11, 2018, Board of Directors Meeting

1b) Approve Minutes of the April 11, 2018, Board of Directors Special Meeting

1c) Customer Program Advisory Group Report

1d) March 2018 Treasurer Report

Regular Calendar

- 2) Approve Pilot New Interim Rate Option for Large Commercial Customers Currently Opted Out (Action)
- 3) Approve Allocation of FY 17-18 Program Funding for Bay Area Air Quality Management District Climate Protection Grant Opportunity (Action)
- 4) FY 18-19 Budget Priorities, Assumptions and Timeline (Discussion)

5) Bike to the Future Recap (Discussion)

6) CEO Report (Discussion)

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Pursuant to the Americans with Disabilities Act, if you need special assistance in this meeting, please contact the Clerk for the Authority at (408) 721-5301 x1005. Notification 48 hours prior to the meeting will enable the Authority to make reasonable arrangements to ensure accessibility to this meeting. (28 CFR 35.105 ADA Title II).



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- 7) Executive Committee Report (Discussion)
- 8) Finance and Administration Committee Report (Discussion)
- 9) Legislative Ad Hoc Committee Report (Discussion)

Board Member Announcements and Direction on Future Agenda Items

Adjourn

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Item 1c

То:	Silicon Valley Clean Energy Board of Directors
From:	Peter Evans, CPAG Chair
Item 1c:	Customer Program Advisory Group Report

REPORT

The fourth Customer Program Advisory Group (CPAG) meeting was held on April 18, 2018 at the Campbell Community Center.

The CPAG meeting agenda and summary report are listed below.

Consent Calendar

1) Approve Minutes of the March 21, 2018, Customer Program Advisory Group Meeting

Regular Calendar

2) Evaluate Program Briefs Against Benefit List (Discussion)

Twelve "program briefs" developed within sub-committees covering the areas identified at the March 21 meeting and drawn from the breakout group presentations at the February 21 meeting were presented to the group. CPAG members were asked to complete an evaluation worksheet providing a positive, neutral, or negative scoring for each program's contribution to each of the benefits identified at prior CPAG meetings. The committee also discussed additional factors that they felt should be considered in evaluating potential programs. The evaluation worksheets were collected by staff, and results of the exercise will be discussed at the next meeting.

We expect to use the next meeting to prioritize or narrow the set of programs the CPAG will present to the board.

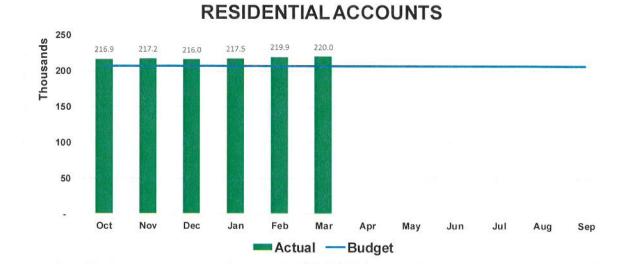
The next regularly scheduled CPAG meeting will take place on May 16, from 11 a.m. – 1 p.m., at the Sunnyvale Senior Center, Laurel Room.

PERSONNEL REPORT FOR MARCH 2018

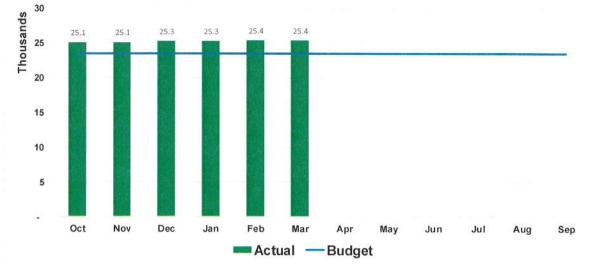
	HEADCOUNT		
Position	Budget	Actual	Variance
Chief Executive Officer	1	1	0
Account Representative I	1	1	0
Account Representative II	1	1	0
Account Services Manager	1	1	0
Administrative Analyst	3	2	1
Administrative Assistant	1	1	0
Board Clerk/Executive Assistant	1	1	0
Finance Manager	1	0	1
Community Outreach Manager	1	1	0
Community Outreach Specialist	1	1	0
Director of Administration & Finance	1	1	0
Director of Marketing & Public Affairs	1	1	0
Director of Power Resources	1	1	0
Power Contracts & Compliance Manager	1	0	1
Power Resource Planning & Programs Analyst	2	1	1
General Counsel & Director of Governmental Affairs	1	0	1
Manager of Regulatory & Legislative Affairs	1	1	0
Associate Regulatory Analyst	1	<u>0</u>	<u>1</u>
Total	<u>21</u>	<u>15</u>	<u>6</u>

	CONTINGENT POSITIONS	The second second	
	Positions		
	FY2017-18	FY2017-18	
Position	Budget	Actual	Variance
Climate Fellows / Temporary	4	4	-

CUSTOMER ACCOUNTS



COMMERCIAL & INDUSTRIAL ACCOUNTS





Staff Report – Item 3

To:	Silicon Valley Clean Energy Board of Directors
From:	Girish Balachandran, CEO
Item 3:	Approve Allocation of FY 17-18 Program Funding for Bay Area Air Quality Management District Climate Protection Grant Opportunity
Date:	5/9/2018

RECOMMENDATION

Staff recommends that the SVCE Board approve the allocation of up to \$500,000 of non-residential FY17-18 program funds to an electric heat pump water heater and electric service panel upgrade initiative titled "FutureFit", commensurate with receipt of up to \$500,000 in matching funds from the Bay Area Air Quality Management District (BAAQMD) Climate Protection Grant.

BACKGROUND

The Member Agency Working Group (MAWG) identified a \$500,000 grant opportunity administered through BAAQMD, due May 11, 2018. The grant requires reducing greenhouse gas emissions in existing buildings.

The MAWG, as agents for their respective cities, are prioritizing an incentive for residential customers to fuelswitch from natural gas water heaters nearing the end of their useful lives to new electric heat pump water heaters. MAWG and SVCE staff recognize that a whole-home electrification campaign is the future direction for SVCE programming. As part of an all-electric home, a 200A electric service panel is effectively the minimum size to accommodate an electric heat pump water heater & furnace, electric vehicle, battery storage, electric dryer, and induction cooking. Therefore, the 200A service panel upgrade incentive will be included in the grant proposal along with the incentive for the heat pump itself.

In conjunction with the MAWG and industry stakeholders, SVCE is finalizing a grant application. The proposed grant initiative addresses two major issues in home electrification: 1) first cost, and 2) largest natural gas using appliance (water heater). By starting with these, future electrification initiatives will be simpler and less costly for the customer and SVCE. Because the proposed incentive includes payment towards the 200A service panel upgrade, this presents an attractive opportunity to the solar, storage and EV charging providers. Those industries must also account for potential service panel upgrades in their customer proposals and so this initiative functions as a de facto incentive for decarbonization efforts beyond heat pump water heaters. In effect, a customer interested in solar who also needs a service panel upgrade would be financially better off participating in the proposed SVCE heat pump/service panel initiative along with buying solar than they would be by buying solar alone.

The Board approved the SVCE program budget. Of \$4.8M, the majority remains mostly unutilized. Allocation of these remaining funds is unlikely to be utilized prior to the end of FY18.

Simultaneously in the residential sector, the Customer Program Advisory Group (CPAG) recommendations are due June 2018 and a high level program roadmap will be developed by SVCE staff in September 2018. SVCE staff has coordinated with the CPAG to inform them of this effort. The funding request herein in no way reduces funds allocated within the scope of the CPAG.

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ANALYSIS & DISCUSSION

The proposed total program budget could be as much as \$1,000,000 with SVCE matching dollar for dollar the potential \$500,000 from BAAQMD. Budget projections show this total amount could support 200 full heat pump water heater + 200A service panel installations resulting in a total reduction of 200 MT CO2 per year. Given a useful life of 13 years per heat pump, this projects to 2,600 MT CO2. However, viewing this initiative on its own rather than as part of the overall portfolio understates the impact. Because this initiative includes a 200A service panel, which is necessary for future home electrification, this initiative reduces potential future program costs arising from service panel issues (e.g. EV charging, solar, storage, etc.).

Based on recommendations from heat pump water heater manufacturers' representatives, heat pump installers, MAWG staff, and SVCE staff, including the Service Panel upgrade as part of an overall incentive package representing about 80% of total installation costs would be necessary to make the first cost for heat pump water heaters on par with natural gas water heaters. Other utility programs reviewed which provided an incentive only on the heat pump water heater itself and did not address the true first cost barrier have failed to produce meaningful results even after years of effort.

Numerous signed letters in support of this initiative have been provided by member cities, non-profits, solar companies, and heat pump manufacturers for inclusion in our application packet.

STRATEGIC PLAN

SVCE's Board-adopted Strategic Plan, specifically Strategy 5.3, identifies an objective to promote programs around decarbonization via fuel switching.

ALTERNATIVES

Two alternatives are possible.

- 1. Apply for this Grant without a firm commitment of funding. The chance of winning the grant will be reduced without a firm commitment of SVCE funding. We do not know the exact amount of risk this introduces.
- 2. Do not apply for this Grant. This logically reduces the leveraged funds opportunity to \$0. Program for heat pumps, service panels, or other areas would come from SVCE program budget only.

FISCAL IMPACT

The approval of this staff recommendation has no fiscal impact as the existing budget for programs can accommodate this request. Further, this does not reduce any funds already budgeted within the scope of the CPAG for residential programs. Approval could mean an additional up to \$500,000 over the course of two years for SVCE programs leveraged from outside sources.



Staff Report - Item 5

To:	Silicon Valley Clean Energy Board of Directors		
From:	Girish Balachandran, CEO		
Item 5:	Bike to the Future Recap		
Date:	5/9/2018		

REPORT

On May 5, 2018, SVCE will host "Bike to the Future", an electric bike building scholarship competition at Gilroy Gardens. Students will compete in a series of challenges for a \$5,000 scholarship prize using electric bikes they've designed and built.

A report highlighting the event will be provided to the Board in the form of a presentation.



Staff Report – Item 6

То:	Silicon Valley Clean Energy Board of Directors
From:	Girish Balachandran, CEO
Item 6:	CEO Report

REPORT

SVCE Staff Update

Don Bray has been promoted to the position of Director of Account Services & Customer Relations. Don has 25 years of experience in a variety of roles that make him very well suited to lead the accounts, communication, marketing and customer care functions at SVCE. Don was employee #2 at SVCE and was also responsible for pre-founding activities when he was the Executive Director of Joint Venture Silicon Valley. As a result, he has a deep understanding of all customer related activities at SVCE.

Long-Term Joint RFO Update

SVCE staff, along with staff from Monterey Bay Community Power (MBCP), are in negotiations with three developers, simultaneously, to acquire long-term rights to the output of three projects. We are proceeding with negotiations around project configuration, and hope to conclude negotiations in June 2018 for the wind project and one solar and energy storage project.

Storage Assessments: Coyote/Anderson Pumped Hydro Opportunity

SVCE's strategic goals include proactively acquire carbon-free resources at the lowest cost, with due consideration for reliability of the grid. Consistent with this goal, SVCE believes that increasing the amount of energy storage on the electric grid will yield benefits for both the grid and SVCE:

- Storage paired with renewable sources such as wind or solar, will allow SVCE to contribute to the ongoing development of new renewable electricity generation, and reduced carbon emissions.
- Grid storage will make the grid more resilient and reduce price volatility, allowing SVCE to carry a lower level in their rate stabilization fund and return greater discounts to our customers.
- More grid storage will reduce the need to maintain or utilize gas-fired peaker plants, thereby reducing carbon emissions.
- New income opportunities will likely emerge associated with storage assets, and deploying more storage in SVCE communities will create jobs.
- Deploying more storage in SVCE's community will lead to the creation of new, mutually-beneficial SVCE rate structures for residential, commercial, and industrial customers within SVCE territory.

SVCE's approach is to be technology agnostic as it relates to energy storage, understanding there are existing and emerging technologies that might prove to be the best fit for achieving SVCE's goals. Relatedly, SVCE is currently finalizing a \$16,500 arrangement with NLine Energy for a high-level, 90-day Feasibility Assessment of the potential for economic development of a 10-15MW pumped hydro storage facility between Anderson and Coyote Reservoirs. The Santa Clara Valley Water District is actively engaged and will be providing data and support.

Agenda Item: 6

SVCE Net Energy Metering April Cash-Out

SVCE's NEM tariff specifies an annual payout process for customers carrying a NEM credit balance greater than \$100 as of their April billing cycle. For customers with credit balances of less than \$100, the surplus amount is rolled forward. Checks are being sent during the first two weeks of May to 534 qualifying NEM customers, totaling nearly \$160,000. The average payout for this group is \$300, an amount valued at the SVCE's retail rate of surplus generation. This amount is typically much higher than the PG&E payment of 2-3 cents, which is applicable only to surplus kilowatt hours. SVCE staff is planning to contact selected customers receiving NEM cash-out payments, to determine interest in participating in photo testimonials.

SVCE Awards

SVCE received the Government Finance Officers Association's Distinguished Budget Presentation Award. This award is the highest form of recognition in governmental budgeting. In order to receive this award, SVCE's budget needed to be rated "proficient" in four categories and in the fourteen mandatory criteria within those categories. SVCE is the only CCA to receive this award.

Our "Understanding your Bill" video won gold in the 'government – electronic media' category of the Hermes Creative Awards; these awards are administered and judged by the Association of Marketing and Communication Professionals in an international competition. Other agencies from throughout the country that also won awards in this category include the likes of CaIOES, Union City, and the Center for Disease Control and Prevention (CDC).

CEO Agreements Executed

The following agreements have been executed by the CEO, consistent with the authority delegated by the Board:

- 1) TeenForce: Agreement for internship recruiting services, not to exceed \$20,000
- 2) Derek May Photography: Agreement for photography and videography services, not to exceed \$20,000
- NLine Energy, Inc.: Agreement for Feasibility Assessment for a small pumped hydro storage opportunity located in Santa Clara County, CA, encompassing Anderson and Coyote Reservoirs, not to exceed \$16,500

CEO Power Supply Agreements Executed

The following power supply agreements have been executed by the CEO, consistent with the authority delegated by the Board:

- 1) Calpine Energy Services: Two agreements for purchase of Resource Adequacy for the period January 2019 through December 2020
- 2) Tenaska Power Services: Two agreements for purchase of Resource Adequacy for the period January 2019 through December 2020
- 3) Monterey Bay Community Power: One agreement for the sale of Resource Adequacy for the period September 2018
- Pacific Gas & Electric: Agreement for purchase of Resource Adequacy for the period 2019 through 2021. This agreement was the result of SVCE being selected as part of PG&E's competitive solicitation to sell RA Capacity.
- 5) Marin Clean Energy: Two agreements, one for the purchase of System Resource Adequacy, one for the Sale of Local Resource Adequacy, for the period 4th Quarter 2018.
- 6) Pacific Gas & Electric: Agreement for purchase of PCC1 bundled RPS energy for the period 2018 through 2021. This agreement was the result of SVCE being selected as part of PG&E's competitive solicitation to sell RPS energy.

The agreements are attached.

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Agenda Date: 5/9/2018

Watts For Lunch

The second key C&I accounts meeting was held at LinkedIn headquarters on May 7. Approximately 40 people attended. This being my first meeting with many of these customers, I provided them an overview of what I had presented to the Board last month related to bending the carbon curve downward, leveraging partnerships and our plans for decarbonization and grid innovation programs. Additional presentations by staff and invited speakers related to building electrification followed. The response from the attendees to the presentations was very positive and they are looking forward to future events.

ATTACHMENTS

- 1. GFOA and Hermes Creative Award Notifications
- 2. Power Supply Agreements Executed
- 3. Regulatory/Legislative Update, May 2018
- 4. Community Outreach Update, May 2018
- 5. Agenda Planning Document, May 2018 October 2018



Communications & Outreach Update May 2018

1. Events and Presentations

Staff continues to attend community events and provide presentations about SVCE to community groups as requested. We attended 11 community events in 8 communities, and 7 corporate Earth Day fairs throughout April. Corporate events included: Tesla, LinkedIn, Google, Fenwick and West, Western Digital, Adobe and VTA. We spoke with hundreds of residents at our information booths and were joined by Girish and several SVCE directors at the events. We posted a <u>photo album</u> and <u>video recap of Earth Day weekend</u> to social media to share our outreach efforts.

We will host another community meeting in Milpitas on May 14 at 6:30 p.m., which will be publicized through direct mail.

Date Time		Event Description	Location	
Apr. 28	10 AM - 2 PM	Gilroy Earth Day Fair - tabling	Gilroy Demonstration Garden, Gilroy	
Apr. 28	2 – 4 PM	Saratoga State of the City - tabling	Civic Theatre, Council Chambers, Saratoga	
Apr. 30	6 – 8 PM	BayREN Workshop – presentation and Q&A	Cupertino Community Hall	
May 14	6:30 - 7:30 PM	Milpitas Community Meeting - presentation	Barbara Lee Senior Center, Milpitas	
May 19 - 20	Sat 10 AM – 6 PM, Sun 10 AM – 5 PM	Boogie: Campbell's Music Festival - sponsor	Downtown Campbell	
May 24	8 AM – 5 PM	SVLG Energy and Sustainability Summit – <i>tabling</i>	Oracle, Redwood City	
May 24	6 – 8 PM	BayREN Workshop – presentation and Q&A	Quinlan Community Center, Cupertino	
May 26 and 27	Sat 10 AM – 7 PM, Sun 10 AM – 6 PM	Morgan Hill Mushroom Mardi Gras – tabling and sponsor	Downtown, Morgan Hill	
May 31	8 AM – 5 PM	Innovation and Impact Symposium - tabling	San Jose City Hall	
June 2 - 3	10 AM - 6 PM	Sunnyvale Art & Wine Festival - sponsor	Downtown Sunnyvale	

Completed and Upcoming Events:

2. Upgrade and Opt Out Update

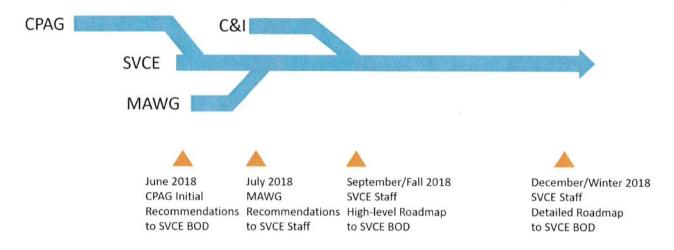
Below is the number of GreenPrime Upgrades and Opt Outs as of May 1, as well as the total opt out percentage in overall accounts, and opt out percentage by load. The percentages are now calculated including Milpitas accounts.

	Upgrade	Opt Out	Opt Out by Account Type	Total Opt Out, All Accounts
Residential	917	7,654	3.08%	3.01%
Commercial	1504	703	2.42%	

3. Member Agency Working Group Update

The Member Agency Working Group (MAWG) met on April 26 and discussed the following topics:

- 1. SVCE Activity/Communications Update
- 2. DNVGL GHG Emissions and Clean Energy Asset inventory
 - Progress update provided by Betty Seto of DNVGL.
- 3. Customer Program Advisory Group (CPAG) Update
 - The CPAG Chair and Vice Chair attended the MAWG meeting to share progress to date.
 - Staff shared this graphic in a presentation that shows how stakeholder input is instrumental in shaping SVCE's program roadmap.



4. BAAQMD Grant Opportunity

• Staff shared an update on the latest details for the grant proposal.

4. Media

Our <u>anniversary video</u> is completed and shares SVCE's first-year achievements and second-year expectations.

Articles:

- Other Voices: An alternative view on Silicon Valley Clean Energy, Los Altos Town Crier, 4-11-2018
- Other Voices: SVCE provides clean energy, customer savings, Los Altos Town Crier, 4-18-2018
- Cleaner and Greener Energy on the Way to Milpitas, The Milpitas Beat, 4-27-2018
- Bike to the Future, KLIV-AM, 4-28-2018

Mention:

• Clean energy and climate resilience for all, SF Examiner, 4-18-2018

SVCE Agenda Planning- May - October 2018

MAY JUNE JULY AUGUST SEPTEMBER OCTOBER Milpitas Launch Board of Directors, May 9: Board of Directors, June 13: Board of Directors, July 11: Board of Directors, August 8: Board of Directors, Sept. 12: Board of Directors, Oct. 10: Consent Minutes CPAG Report June/July 2018 Treasurer Report Requiar Calendar FY 18-19 Budget Adoption Consent Minutes CPAG Report April 2018 Treasurer Report Consent: Minutes CPAG Report May 2018 Treasurer Report Consent: Minutes August 2018 Treasurer Report Consent Cancelled Minutes CPAG Report March 2018 Treasurer Report Regular Calendar May 2018 Treasurer Report <u>Regular Calendar</u>, Strategic Plan Update Final Review and Approval of IRP FY 18-19 Budget Review - Draft 1 GHG Inventory Presentation Salar Contract 1 of 2 <u>Closed Session</u> - Performance Eval Regular Calendar: Budget Priorities Bike to the Future Recap Regular Calendar, CPAG Recommendations 1st Draft - IRP Solar Contract 2 of 2 Programs Road map Line of Credit **tentative Wind Contract Reserves Policy COI Update to reflect approved positions Executive Committee, May 22: Executive Committee, June 26: Executive Committee, July 24: Executive Committee, Aug. 28: Cancelled Executive Committee, Sept. 25: Executive Committee, Oct. 23: Customer Program Advisory Group, May 16: Priorize programs for the SVCE Board Finance & Admin Committee, May 30: Finance & Admin Committee, Aug. 22: FY 18-19 Budget Third Quarter Financial Review Review Reserve Policies Benefits Line of Credit Discussion Building Facility Options Legislative Ad Hoc Committee, May 7: Sacramento Lobby Day Green Paper ATION.

2018-0609-06 Atlach 5 Agenda Planning Documents/2 (F)

Item 6 Attachment 5 Revised: 5/4/18