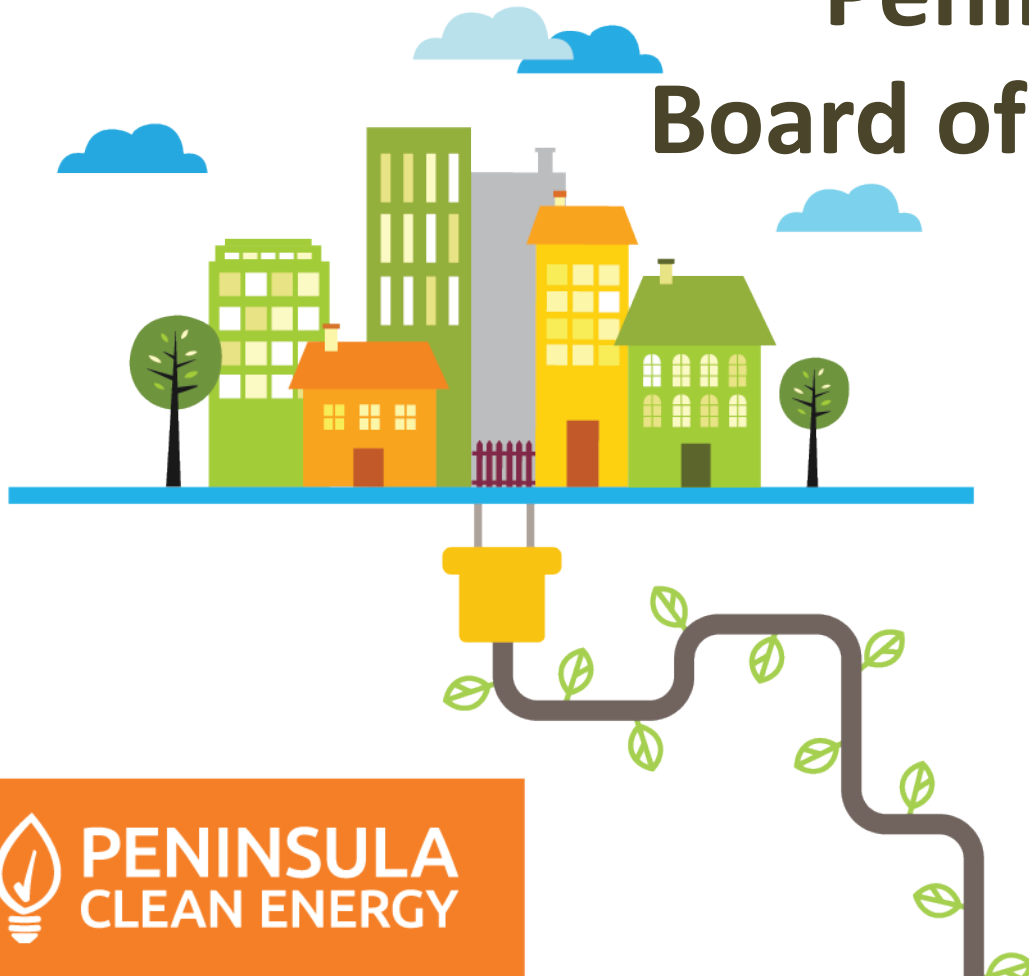


Peninsula Clean Energy Board of Directors Meeting

April 27, 2017



**PENINSULA
CLEAN ENERGY**

Agenda

Call to order / Roll call

Public Comment

Action to set the agenda and approve consent items

Regular Agenda

1. Chair Report (Discussion)

Regular Agenda

2. CEO Report (Discussion)

Recruiting Update

- Introducing:
 - Joseph Wiedman, Senior Regulatory/Legislative Analyst
 - Siobhan Doherty, Manager of Contracts
- Posted position:
 - Renewable Energy Analyst (open until May 3)

Highlights

- Press event on April 19 at Hillsdale Shopping Center to announce our full rollout to all of San Mateo County and Portola Valley's 100% renewable enrollment
- Low opt-out rate continuing!
- CAC Applications open until April 30

GHG-free content

- Suggest we ramp up our GHG-free content beyond 75% this year as follows:
 - 2016 – 75% GHG-free
 - 2017 – 80% GHG-free
 - 2018 – 85% GHG-free
 - 2019 – 90% GHG-free
 - 2020 – 95% GHG-free
 - 2021 – 100% GHG-free

Coming Up

- Business of Local Energy Symposium, May 5, Long Beach
- PCE 101 Training for new board members (and existing board members)
 - Week of May 15 – 2 hours
 - Doodle poll in weekly newsletter
- PCE 202 Training on PCIA with Pradeep Gupta
 - Week of June 5 – 2 hours

Regular Agenda

3. Marketing and Outreach Report (Discussion)

Happy Earth Month!

Never doubt that a small group of thoughtfully committed citizens can change the world. Indeed, it's the only thing that ever has.

- Margaret Mead



PCE Earth Month Outreach

Since last board meeting, PCE...

- **Talked with more than 1,000 customers**, at 21 events in more than 15 cities/towns
- Helped local kids make approx. 700 clean energy pinwheels
- We'll be at another four events this weekend!



Photo by Dan Lieberman at Pacifica Earth Fest on April 22

Recent Presentations & Tabling

27-Mar	Belmont Community Workshop
28_Mar	Burlingame BAYREN Multifamily EE workshop
28_Mar	PCE Presentation at Redwood City Senior Center
8_Apr	San Carlos Earth Day tabling
10-Apr	Half Moon Bay Community Workshop
11-Apr	Pescadero Town Council Update
14-Apr	Skyline College Women in Energy Career Panel
18-Apr	PCE Workshop in Foster City
19_Apr	PCE Presentation to SamTrans/Caltrain Employees
19_Apr	PCE Presentation at Atherton City Council
19_Apr	PCE Presentation to League of Women Voters
20_Apr	PCE Volunteer Training -- thank you volunteers!
21_Apr	Half Moon Bay Compost Giveaway Tabling
22_Apr	Marine Science Earth Day tabling Redwood City
22_Apr	Pacifica Earth Fest tabling
22_Apr	Portola Valley Earth Day Tabling
22_Apr	Atherton Earth Day Tabling
22_Apr	East Palo Alto Earth Day Tabling
22_Apr	PCE Update to South San Francisco Composting Class
22_Apr	Menlo Park Earth Day Tabling
27_Apr	PCE Presentation to North Fair Oaks Council

Upcoming Presentations & Tabling

29_Apr	Belmont Earth Day Tabling
29_Apr	PCE Presentation at Burlingame Rainwater Workshop
29_Apr	STEAM Fest in Redwood City Tabling
30_Apr	Kermes Día del Niño Tabling in North Fair Oaks
6-May	San Bruno Clean Sweep Tabling
7-May	Burlingame Streets Alive Tabling
10-May	PCE Presentation to San Bruno Rotary Club
11-May	Bike to Work Day Energizer Station in South San Francisco <i>Also placing PCE pens and brochures in all 3,500 Bike to Work swag bags in the County</i>
16-May	Beresford Hillsdale Neighborhood Meeting Tabling in San Mateo
18-May	PCE Presentation to SMUHA in San Mateo
20-May	Shine Family Day Tabling in Daly City
24-May	PCE Presentation at Water Wise Workshop in Millbrae
24-May	PCE Presentation at Shelter Creek HOA in San Bruno
3-Jun	Hillsborough Earth Day Tabling

Huge Thank You to Outreach Volunteers!

- Gladwyn D'Souza – San Mateo Community Choice
- Janet Creech -- San Mateo Community Choice
- Janelle London* – Menlo Spark
- Michelle Daher – East Palo Alto City Staff
- Grant Lingon** – San Mateo City Staff
- Kathy Goforth
- Geoff Esmail

**Speaks Spanish*

***Speaks Mandarin*



CARE and Medical Baseline

- Post cards will be sent in May to all discount customers with message that:
 - CARE, FERA, LIHEAP discounts automatically continue for PCE customers
 - Medical Baseline customers are exempt from PCIA, receive additional 35% savings!
- Post card is in English, Spanish, and Chinese

How to Read PG&E Bills

- Sending a special post card to residential (E1) customers on how to find savings on bill
 - ECO100 and ECOplus versions
- Creating website video on reading your bill
- Organizing workshop/open house for solar customers to bring in their NEM bills

Social Media: March 2017



Press Releases

- Two press releases distributed in April at press conference
 - Portola Valley goes ECO100
 - PCE now the largest CCA in California
- Media coverage included:
 - KQED interview with Jan Pepper and Dave Pine
 - Everything South City
 - InMenlo
 - Balitang America
- May press releases may include:
 - PCE signs new power supply contracts



Op Eds

Status	Who	What	Where
Published	Jeff Aalfs	We can help combat climate change with new energy program	The Almanac
Published	Dave Pine & Carole Groom	Peninsula Clean Energy now serving entire county	San Mateo Daily Journal
Published	Jan Pepper	Featured Story of the Week	KHMB Radio
Published	John Keener	How PCE Helps Pacifica Meet our Climate Action Plan Goals	Pacifica Tribune
Submitted	Donna Colson	Green Power Options with PCE	Burlingame Voice
Submitted	Jan Pepper	Community Choice Aggregation will soon be providing Most Northern Californians With Electricity	SF Chronicle
Drafting	Rick DeGolia and Carlos Romero	PCE as a harbinger of what's to come in regional energy	SJ Mercury News

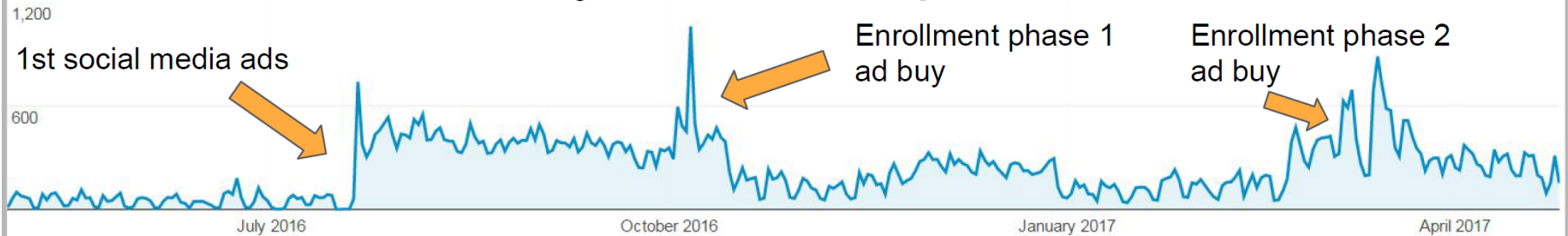
Customer Notices: Update

- 208,000 units of each notice
- Phase 2 notices #1 & #2 already sent
- Phase 2 notice #3 currently mailed weekly
- Post-enrollment notices #3 and #4 are large postcard format



Ad Campaign & Web Metrics

Website Visits: May 1, 2016 - April 25, 2017



Sessions

82,230

Users

43,794

Pageviews

170,233

Pages / Session

2.07

Avg. Session Duration

00:02:12

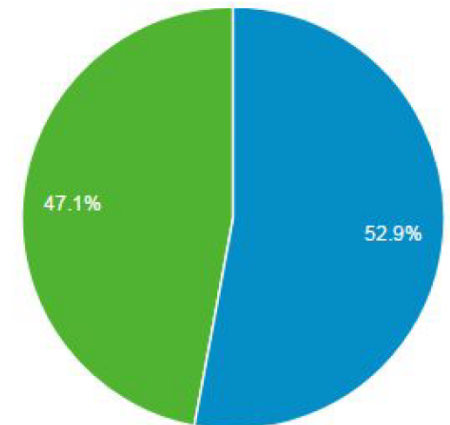
Bounce Rate

61.97%

% New Sessions

52.91%

■ New Visitor ■ Returning Visitor

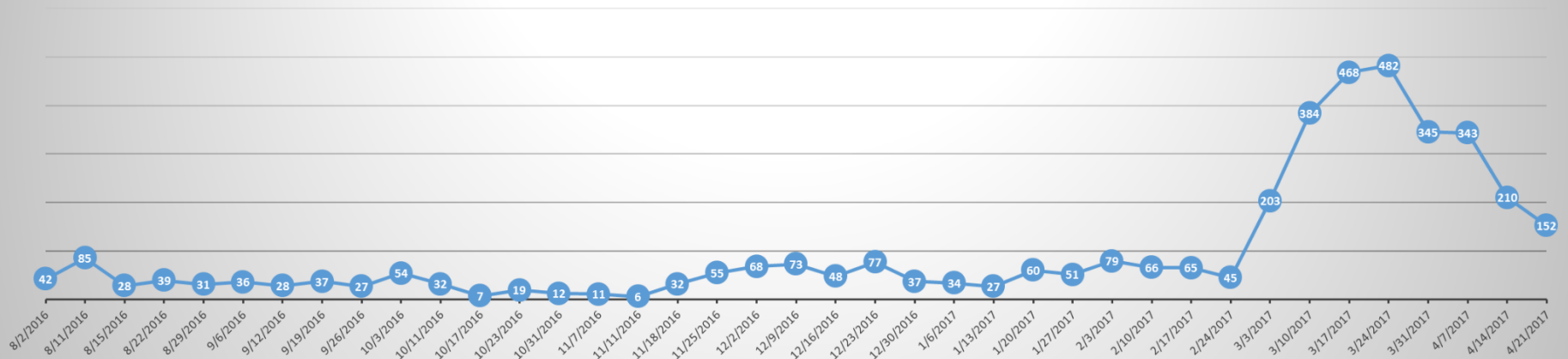


Opt-Outs

OPT OUT BY CITY/POPULATION 4/21/17				
CITY	Eligible Accts	Past Phase Accts	Total	TOTAL OPT OUT %
PORTOLA VALLEY INC	1,674	160	66	3.94%
SAN BRUNO INC	16,416	4,088	313	1.91%
PACIFICA INC	15,417	3,778	282	1.83%
SO SAN FRANCISCO INC	24,857	7,315	449	1.81%
HALF MOON BAY INC	4,910	1,449	77	1.57%
DALY CITY INC	33,729	8,111	504	1.49%
MILLBRAE INC	9,377	2,386	139	1.48%
UNINC SAN MATEO CO	24,362	7,180	346	1.42%
SAN CARLOS INC	14,380	4,704	203	1.41%
BELMONT INC	11,818	3,085	156	1.32%
SAN MATEO INC	43,457	11,540	540	1.24%
HILLSBOROUGH INC	4,056	1,027	47	1.16%
BURLINGAME INC	15,458	4,595	177	1.15%
WOODSIDE INC	2,282	675	26	1.14%
BRISBANE INC	2,475	864	28	1.13%
COLMA INC	799	772	8	1.13%
FOSTER CITY INC	14,401	3,445	144	1.00%
ATHERTON INC	2,683	756	26	0.97%
REDWOOD CITY INC	34,377	9,387	300	0.87%
MENLO PARK INC	14,955	4,255	130	0.87%
EAST PALO ALTO INC	7,715	1,852	66	0.86%
Grand Total	299,598	81,424	4,028	1.34%

Opt Outs By Week

Opt Outs by Week



Opt-Ups

ACTIVE ACCTS BY CITY	Eligible Accts	
CITY	Full Territory	ECO100
ATHERTON INC	2,683	33
BELMONT INC	11,818	28
BRISBANE INC	2,475	55
BURLINGAME INC	15,458	55
COLMA INC	799	
DALY CITY INC	33,729	15
EAST PALO ALTO INC	7,715	
FOSTER CITY INC	14,401	66
HALF MOON BAY INC	4,910	
HILLSBOROUGH INC	4,056	
MENLO PARK INC	14,955	145
MILLBRAE INC	9,377	59
PACIFICA INC	15,417	34
PORTOLA VALLEY INC	1,674	120
REDWOOD CITY INC	34,377	395
SAN BRUNO INC	16,416	27
SAN CARLOS INC	14,380	117
SAN MATEO INC	43,457	125
SO SAN FRANCISCO INC	24,857	18
UNINC SAN MATEO CO	24,362	108
WOODSIDE INC	2,282	23
Unallocated		
Unallocated (cust type)		
Grand Total	299,598	1,454

Sponsorships and Conferences

- PCE is joining local Chambers of Commerce and other organizations (e.g. Sustainable San Mateo County)
- Sponsored these upcoming events:

What	When	Where	Who
Business of Local Energy Symposium	May 5	Long Beach	Center for Climate Protection
Energy & Sustainability Summit	May 25	Redwood City	SVLG
Silicon Valley Energy Summit	June 23	Stanford	Precourt Energy Efficiency Center

NEM Early Enrollment Issue

- Calpine sent Phase 2 enrollment notices to some NEM customers in error, rather than in their correct NEM enrollment phase
 - 841 NEM customers received the phase 2 notice and were enrolled before their annual true-up
 - 1401 NEM customers received the Phase 2 notice but were not enrolled
- We are working with Calpine and PG&E to reverse the true-up for the 841 customers
- PCE is sending notices to all affected customers
- All customers are back on their original true-up schedule

Regular Agenda

4. Regulatory and Legislative Report (Discussion)

Regulatory and Legislative Report

April 27, 2017

Joseph Wiedman
Senior Regulatory/Legislative Analyst



April Meetings and CalCCA Activities

– PCE April Meetings

- March 31st meeting in Daly City (attended Dave Pine, Glenn Sylvester, Jan Pepper, Joe Wiedman)
 - Met with State Senator Scott Wiener regarding SB 618
- April 18th Senate Energy, Utilities and Communications Committee Hearing on SB 618 (attended by Joe Wiedman and CalCAA team)
- April 20th meeting with PG&E/MCE/SCP on Default TOU Pilot Program Coordination (attended by Dan Lieberman and Joe Wiedman)

– CalCCA Activities

- Finalizing regulatory and legislative processes

April Regulatory Activities

– PCE April Filings

- Filed Post Workshop Comments with CalCCA on bond methodology considerations in **R.03-10-003 – (CCA Bond)**
- Filed comments with CalCCA on IOU ME&O Plans for Default TOU Pilot in **R.12-06-013 – (Residential Rates OIR)**
- Filed comments with CalCCA on Energy Division approval of Compliance Plan in **Advice Letter 3035-E – (SDG&E Independent Marketing Division (IMD) Compliance Plan)**
- Filed Joint IOU-CCA Petition to Modify (uniform information standards) – **PCIA/PAM – no open docket**

April Legislative Activities

- **SB 618 (Bradford)** – Significantly modified. No longer subjects CCAs to expanded CPUC oversight of IRPs
- **AB 79 (Levine)** – Would create seasonal and hourly emissions factors and compliance obligations; working with CalCCA to amend to use yearly default emissions factors
- **AB 1405 (Mullin)** – Would have required CCAs to meet a 4-hour peak load requirement using storage; now amended to look exactly like SB 338; PCE continues to work with author and staff
- **SB 338 (Skinner)** – Requires consideration within IRP how utilize EE, DR and storage to meet net peak load
- **SB 679 (Allen and Wiener)** – Directs CAISO to study reforming transmission access charges for resources on the distribution system

Future Reg/Leg Activities

- En Banc Hearing on Retail Choice May 19th in Sacramento
- May 30th – Protest to IOU's PAM Application 17-04-018 (filed on Tuesday, April 25th) due; PCE is taking a lead in the work with CalCCA
- July 3rd – Testimony on CCA Bond Methodology due

Regular Agenda

5. Integrated Resource Plan (Discussion)

PCE's Integrated Resource Plan (IRP) –

April 27, 2017



**PENINSULA
CLEAN ENERGY**

Presentation Outline

- Legislative and regulatory considerations
- Resource planning goals
- Electric load forecast
- Resources
- Procurement methods
- Future policy decisions for board
- Appendix
 - Existing PCE strategic procurement targets
 - Possible IRP Outline

Legislative and Regulatory Considerations

- No state mandate (yet) to produce an IRP
 - CPUC is currently implementing Cal. PU Code Sec. 454.52 via R.16-02-007
 - Under Sec. 454.52(b)(3): IRP approved by CCA Board of Directors; provided to CPUC for “certification”
 - IRP must meet certain requirements:
 - Economic, reliability, environmental, security and other benefits
 - Diversified portfolio of short-term/long-term electricity, electricity-related and demand reduction products
 - Must meet RA requirements established via state law
 - Other procurement requirements
 - RPS – 50% by 2030; discussion of moving to higher levels
 - Storage mandate – 1% of peak; contracts by 2020, in place by 2024
 - Sec. 399.13(b) – Beginning January 1, 2021 – 65% of RPS contracts in each compliance period must be for contracts of 10 years or more in duration

Resource Planning Goals

- Purpose of the IRP (beyond meeting regulatory requirements)
 - To articulate and communicate PCE's plans and requirements for building a diversified portfolio of power resources
 - Key audiences include PCE Board, customers, suppliers and policymakers
 - In particular, suppliers (developers) can learn PCE's needs and priorities, and shape their offerings to PCE accordingly
 - Annual updates with detailed appendices are useful for this purpose

Electric Load Forecast

- Customer consumption forecasts will be built up from assumptions and data in the end-use classifications (residential, commercial, etc.)
- Programs to be evaluated in the future that will affect the demand side (load) (and also in some cases the supply side):
 - Energy storage
 - Energy efficiency
 - Net energy metering
 - Demand response programs
- In previous discussions with the Board, we have presented graphical load forecasts, and superimposed on those charts certain supply scenarios as a function of different contracting decisions
 - While the IRP may not contain this level of detail, it will reflect the assumptions behind these analyses and the policy goals inherent in them

Resources

- Existing resource commitments and current resource mix; for example:
 - Renewables
 - Carbon free (GHG free)
 - System energy
 - Capacity (RA)
 - System capacity
 - Local capacity
 - Flexible capacity
- Future resource acquisitions
 - Energy storage
 - On the utility side of the customer meter (“in front of the meter” OR “IFM”)
 - Or, on the customer side (“behind the meter” or “BTM”)
 - This option appears to the utility to be the same as a reduction in demand (load)
 - Net energy metering
 - Energy efficiency programs
 - Demand response (including BTM storage with ability to be dispatched)

Procurement Methods

- Competitive requests for offers (RFOs)
 - Generally the preferred approach
 - Contracts are fully negotiable
 - However, there are also “standard contract” RFOs
 - No opportunity to negotiate contract terms and conditions, and bid accordingly
 - Simplify and accelerate procurement; reduce costs for legal services
- Unsolicited proposals
 - Normally refer these to the next RFO opportunity
 - May consider “rare and fleeting opportunities”
- Feed-in tariffs (FITs)
 - A “first come, first served” approach with a price being offered to the market
 - The frequency of updating the price is important
 - Standard, non-negotiable contract
 - Typically for very small community-based projects

Future Policy Decisions for PCE Board

- Risk Management
 - Procurement
 - Short-term vs long-term contracts vs market exposure
 - Curtailment
 - Price forecasts
 - Load
 - Opt-out
 - Regulatory / Legislative Risks
 - Changes in rules
- Local Programs

Appendix

Resource Planning Targets

- Existing PCE strategic procurement targets
 - 100% GHG free (carbon free) by 2021
 - Sourced by 100% CA RPS eligible renewable energy by 2025
 - Create a minimum of 20 MWs of new local power by 2025
 - Renewable power, EV programs, energy storage
 - Energy efficiency and demand response
 - In partnerships with local business, schools and nonprofit organizations
 - No use of unbundled renewable energy certificates (RECs)
 - No coal resources

Possible IRP Outline (1 of 3)

- Introduction
 - Purpose
 - Executive Summary
- General Resource Planning Principles
 - Regulatory Considerations
 - PCE Procurement Targets
- Electric Load Forecast
 - Enrolled Customers
 - Baseline Customer and Consumption Forecast
 - Energy Efficiency
 - Net Energy Metering
 - Demand Response

Possible IRP Outline (2 of 3)

- Resources
 - Existing Resource Commitments
 - Current Resource Mix
 - Resource Needs
 - Renewable Resources
 - GHG-Free Resources
 - System Energy
 - Capacity Resources
 - Flexible Capacity
 - Energy Storage
- Procurement
 - Renewable Energy Purchases
 - GHG-Free Power Purchases
 - System Resources and Specified Power Resources
 - Reserve Capacity Purchases

Possible IRP Outline (3 of 3)

- Procurement (Continued)
 - Local Renewable Energy Development
 - PCE Generation Development
 - Feed-In Tariff
- Procurement Methods and Authorities
 - Procurement Methods
 - Procurement Authorities
- Appendix A: Load and Resource Table
- Appendix B: Description of Resources

Regular Agenda

- 6. Authorize the Chief Executive Officer to execute an EEI (Edison Electric Institute) Master Agreement and Confirmation Agreement for Purchase of Resource Adequacy from Pacific Gas and Electric Company (PG&E). Power Delivery Term: July 1 2017 through December 31, 2017, in an amount not to exceed \$3,300,000 (Action)**

Special Meeting

- 1. Authorize the Chief Executive Officer to execute a Long Form Confirmation Agreement with Pacific Gas and Electric Company (PG&E) for Purchase of PCC1 Renewable Energy. Power Delivery Term: July 1, 2017 through December 31, 2017, in an amount not to exceed \$7,000,000 (Action)**

Special Meeting

- 2. Authorize the Chief Executive Officer to execute two EEI (Edison Electric Institute) Confirmation Agreements for Purchase of Resource Adequacy from Shell Energy North America (Shell) with (1) Power Delivery Term: July 1, 2017 through December 31, 2017, in an amount not to exceed \$85,000; and (2) Power Delivery Term: July 2017, in an amount not to exceed \$40,000 (Action)**

Regular Agenda

7. Authorize the Chief Executive Officer to execute a contract for Purchase and Installation of Office Furniture in an amount not to exceed \$250,000 (Action)

Regular Agenda

8. Formation of a standing Audit and Finance Committee (Action)

Regular Agenda

9. Update from Ad Hoc Committee on Formation of New Citizens Advisory Committee (Discussion)

Regular Agenda

10. Financial Reports (Discussion)

Regular Agenda

11. Board Members' Reports (Discussion)

Regular Agenda

Adjourn