

# Agenda

Call to order / Roll call

**Public Comment** 

Action to set the agenda and approve consent items

# 1. Chair Report (Discussion)

Jeff Aalfs Peninsula Clean Energy 24 May 2018

# Important Events and Anniversaries

 May 27<sup>th</sup>: Jan Pepper's two-year anniversary with PCE!!

 May 24<sup>th</sup> (today): SVLG Energy and Sustainability Summit, Oracle

# **SVLG Energy and Sustainability Summit**

- Highlights:
  - Dave Pine: Regional Resilience through partnerships (inter-agency and public-private)

 Antonio Villaraigosa, Candidate for Governer; former Mayor of Los Angeles: "I support SB1380 (Stern)": Climate adaptation information and transparency.

- Carla Peterman, CPUC: EV adoption policies

# Impacts of High Variable Renewable Energy Futures on Wholesale Electricity Prices, and on Electric-Sector Decision Making

Authors:

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Sidart Deb, Aarthi Asokkumar, Mohammad Hassanzadeh, Amirsaman Aarabali<sup>2</sup>

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# Moderate Renewables Integration in CA leads to significantly lower prices

#### Wholesale Price Effects of 40-50% Wind & Solar

(Wind: 30% wind & 10+% solar | Balanced: 20% wind & 20% solar | Solar: 30% solar & 10+% wind)

Impacts in 2030 relative to baseline with 2016 wind & solar shares	Southwest Power Pool 2016: 18% wind & 0% solar			NYISO (New York) 2016: 3% wind & 1% solar			CAISO (California) 2016: 7% wind & 14% solar			ERCOT (Texas) 2016: 16% wind & 1% solar		
	Wind	Balanced	Solar	Wind	Balanced	Solar	Wind	Balanced	Solar	Wind	Balanced	Solar
Lower Average Prices [\$/MWh]	0 -6 -12	-21%	-27%	0 -6 -12 -379	-38%	-39%	0 -6 -12 -25	-23%	-27%	0 -6 -12 -25	-17%	-15%

2. CEO Report (Discussion)

# Personnel Update

- Current recruitments:
  - Energy Programs Associate
  - Clean Energy Programs Manager
  - Regulatory Analyst
  - CFO (through search firm)

- New recruitments soon:
  - Distributed Energy Procurement



## Local Programs Update

Board approved Phase 1 programs last month:

- \$745K for EV measures
- \$450K for community pilots





# Local Programs: EV Measures

- Signed contract with Reach for Ride & Drive events
  - 4 corporate
  - 2 public
- Signed contract with EV Charging Pros for MUD technical assistance
- Meeting with auto dealerships in SMC
  - Met with Putnam in Burlingame
  - Arranging meetings with all others

# Local Programs: Community Pilots

- Final refinement and marketing plans are under development
- Rollout expected in June



# Other Updates

- Data Management Vendor:
  - Negotiating with Calpine
- Employee Handbook:
  - In final review
- Reserves Policy
  - Targeting approval in June



### Legislative Committee – ad hoc meeting

- Met on May 16 thank you to board members and alternates who were able to attend:
  - Pradeep Gupta
  - Rick DeGolia
  - Rick Bonilla
  - Daniel Yost
  - Julia Mates



# Scheduling Board Retreat

- Propose changing date from September 22 to September 29
  - Can you make it on Sept 29?
  - If not, can your alternate?



### **Upcoming Events**

- Business of Local Energy Symposium June 4-5,
   Sacramento
- Precourt Energy Institute's Silicon Valley Energy Summit
   June 21, Stanford
- CalCCA Annual Summit Sept 5-6, Asilomar (Monterey)
- Special Meeting June 28 at 5pm Cordell Stillman presentation on SCP's Drive Evergreen Program (Thanks to the CAC for requesting this presentation)
- PCE Board Retreat Sept 29
- Groundbreaking for Wright Solar project October 11
- CAISO Stakeholder Conference –
   Oct 17-18, Sacramento



# 3. Citizens Advisory Committee Report (Discussion)

# 4. Appointment of CAC Members (Action)

# 5. Audit and Finance Committee Report (Discussion)

# 6. Marketing and Outreach Report (Discussion)

# Opt-outs by City

CITY	<b>Eligible Accts</b>	Total	TOTAL OPT OUT %
PORTOLA VALLEY INC	1,679	99	5.90%
SAN BRUNO INC	16,424	589	3.59%
PACIFICA INC	15,436	506	3.28%
SO SAN FRANCISCO INC	24,770	799	3.23%
DALY CITY INC	33,941	976	2.88%
MILLBRAE INC	9,366	249	2.66%
HALF MOON BAY INC	4,942	129	2.61%
UNINC SAN MATEO CO	24,413	625	2.56%
EAST PALO ALTO INC	7,797	199	2.55%
SAN MATEO INC	43,972	1018	2.32%
SAN CARLOS INC	14,441	332	2.30%
BELMONT INC	11,854	270	2.28%
HILLSBOROUGH INC	4,038	82	2.03%
BRISBANE INC	2,474	50	2.02%
REDWOOD CITY INC	34,784	675	1.94%
FOSTER CITY INC	14,645	281	1.92%
BURLINGAME INC	15,422	294	1.91%
WOODSIDE INC	2,282	37	1.62%
ATHERTON INC	2,694	42	1.56%
COLMA INC	797		1.38%
MENLO PARK INC	15,752	214	1.36%
<b>Grand Total</b>	301,923	7,477	2.48%

# Outreach Grantee Update

- Acterra translated PCE brochures into Somoan and Tongan for East Palo Alto
- Pacifica Resource Center is reaching seniors, launching social media campaign
- Rebuilding Together is including PCE in mailer to National Building Day participants
- Sound of Hope recorded radio ads in Mandarin and Cantonese
- <u>El Concilio</u> is tabling events with PCE materials in Spanish



PCE brochures in Samoan (left) and Tongan (right) feature Violet Saena of Acterra and her family, who are Samoan.

# Solar Net Metering Bill Workshop

# June 20<sup>th</sup> 6:30 pm at PCE office

Great response of 70 RSVPs: Workshop is full! Taking wait list and scheduling additional dates



# ECO100 Opt-Ups by City

ACTIVE ACCTS BY CITY	Eligible Accts	May '18			
CITY	Full Territory	RES ACT	СОМ АСТ	ACTIVE	ECO100
ATHERTON INC	2,694	2,395	226	2,621	55
BELMONT INC	11,854	10,547	936	11,483	145
BRISBANE INC	2,474	1,911	505	2,416	75
<b>BURLINGAME INC</b>	15,422	13,022	1,965	14,987	306
COLMA INC	797	501	274	775	28
DALY CITY INC	33,941	30,774	1,959	32,733	59
EAST PALO ALTO INC	7,797	7,088	444	7,532	16
FOSTER CITY INC	14,645	13,304	811	14,115	115
HALF MOON BAY INC	4,942	4,173	584	4,757	82
HILLSBOROUGH INC	4,038	3,781	145	3,926	59
MENLO PARK INC	15,752	13,630	1,720	15,350	412
MILLBRAE INC	9,366	8,401	662	9,063	87
PACIFICA INC	15,436	13,976	860	14,836	112
PORTOLA VALLEY INC	1,679	1,431	142	1,573	1,472
REDWOOD CITY INC	34,784	30,295	3,372	33,667	616
SAN BRUNO INC	16,424	14,603	1,102	15,705	80
SAN CARLOS INC	14,441	11,849	2,144	13,993	241
SAN MATEO INC	43,972	38,585	3,903	42,488	566
SO SAN FRANCISCO INC	24,770	20,610	3,215	23,825	71
UNINC SAN MATEO CO	24,413	20,616	2,862	23,478	442
WOODSIDE INC	2,282	2,006	217	2,223	48
Unallocated					
Unallocated (cust type)				241	
Grand Total	301,923	263,498	28,048	291,787	5,087

### VISA ECO100 Press Release

- Sent through Business Wire, received 2,500+ views
- Posted online by 260+ news outlets across the country
- Notable online publications:
  - New York Times
  - Nasdaq.com
  - Morningstar
  - Silicon Valley, San Francisco, Sacramento, and LA Business Journals
  - San Francisco Business Times
  - Solar Power World





# 7. Regulatory and Legislative Report (Discussion)

# Regulatory and Legislative Report

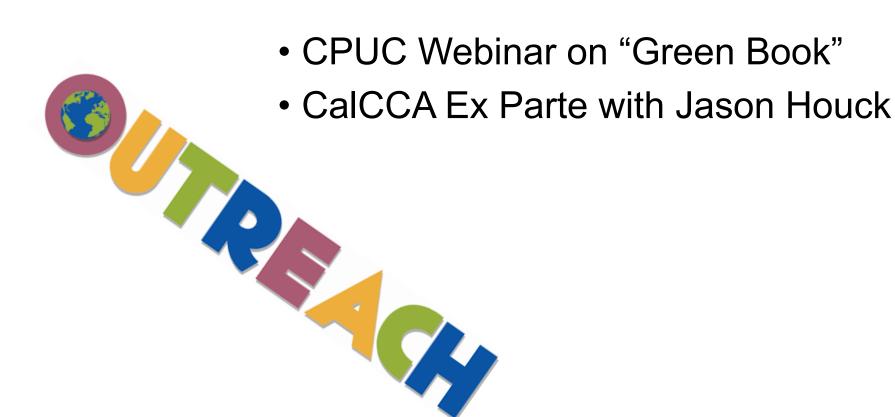


### **April/May Regulatory Activities**



- CalCCA rebuttal testimony in PCIA docket
- CalCCA comments and reply comments on "clean net short"
- CalCCA comments and reply comments on CCA bond methodology proposed decision
- PCE and SCP comments on congestion revenue rights
- Smart EV Charging Coalition comments on Low-Carbon Fuel Standard Credit allocations

### **April/May Regulatory Outreach**



### **April/May Legislative Activities**



#### CalCCA activity:

- AB 813 (Holden) Support
- AB 893 (Garcia) Oppose
- SB 1088 (Dodd) Oppose unless amended
- SB 1347 (Stern) Oppose unless amended
- Letter to Governor's Office
- Letter to supportive legislators

# 8. Update on Power Charge Indifference Adjustment (PCIA) (Discussion)

# **Update on PCIA**

May 24, 2018

Jeremy Waen Senior Regulatory Analyst



### What is the PCIA?

"The [Power Charge Indifference Adjustment (PCIA)] is a mechanism adopted by the Commission as part of the ratemaking methodology developed to ensure that when electric customers of the investor-owned utilities (IOUs) depart from IOU service and receive their electricity from a non-IOU provider, those customers remain responsible for costs previously incurred on their behalf by the IOUs — but only those costs."

Per P.U. Code 366.2(f)(2), these costs for CCA customers must be:

- "Net" (i.e. costs that are "above market" value)
- "Unavoidable" (i.e. costs that cannot be reduced or mitigated)
- "Attributable" (i.e. costs are specific to the customer and their timing of departure)

### **PCIA Rulemaking (R.17-06-026)**

Commission initiated a Rulemaking (R.) 17-06-026 on June 29, 2017:

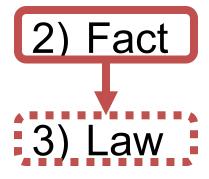
- "in order to review, revise, and consider alternatives" to the present PCIA methodology
- Track 1 Considers exemptions for CARE and medical baseline customers
- Track 2 Evaluates possible modifications of the PCIA methodology

### PCIA Rulemaking (R.17-06-026)



### **CPUC Proceeding Process**

1) Scope



4) Policy Decision

### PCIA Rulemaking (R.17-06-026)





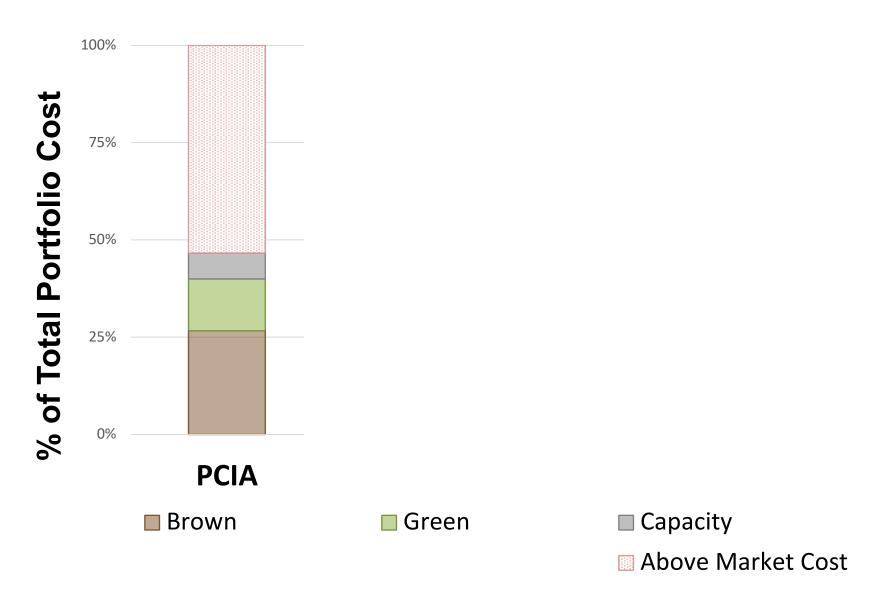
### **Shorter-Term Reform**

- Revised Capacity Adder
- New Ancillary Service Adder
- New GHG-Free Adder

### **Longer-Term Reform**

- Securitization
- Buy-Down/Buy-Out
- Auction

### **Potential Benchmark Reform**



Securitization Buy-Down/Buy-Out Auction NBC

#### 1. Benchmark Reform

- Include values of:
  - long-term capacity,
  - ii. ancillary services, and
  - iii. greenhouse gas-free resources
- ~\$500 M reduction in PG&E's "above market" costs

#### 2. Securitization

- Focused on Utility Owned Generation (UOG)
- ~\$1.2 B in reduced costs for all PG&E ratepayers

#### 3. Buy-Down/Buy-Out

- Focused on existing, high-cost renewables contracts
- Further reduces costs for all ratepayers

#### 4. Staggered Auction of IOU Portfolio

- Requires IOUs to sell all renewable and GHG-free resources into a quarterly action where all Load-Serving Entities (LSEs) can bid
- Clearing prices would establish the true market value to replace need for benchmarks



Potential Impact on PG&E's Above Market Costs:

\$2.2 Billion -> \$512 Million

### Joint IOUs' PCIA Testimony - Overview

Before...

### Portfolio Allocation Mechanism (PAM)

- Forcefully allocates costs and attributes of IOU portfolio resources onto CCAs
- Values these attributes in short-term manner only
- Violates CCA procurement autonomy
- Fails to minimize both above-market costs and IOUs' total portfolio costs

### Joint IOUs' PCIA Testimony - Overview

Now...

### **Green Allocation Mechanism (GAM)**

 Forcefully allocates costs and attributes of IOUs' renewable and large hydro resources onto CCAs

### Portfolio Management Mechanism (PMM)

- Forcefully allocates costs of gas/nuclear/energy storage IOU resources onto CCAs
- Values these attributes in short-term manner only

### **Next Steps**



## Regular Agenda

# 9. Fiscal Year 2018-2019 Budget Review (Discussion)

## Approach

FY 2017-18 Budget Model	FY 2018-19 Budget Model
Prepared by PEA	Internal Model
<ul> <li>Used 2014 data for load forecast, as basis for revenue and cost of energy budgeted numbers</li> </ul>	<ul> <li>Used 2017 actual load data for revenue and cost of energy budgeted amounts</li> </ul>
Top-down and bottoms-up forecast	Bottoms-up forecast
<ul> <li>The model might take time to build scenarios</li> </ul>	<ul> <li>Model designed to run multiple "what if" scenarios</li> </ul>

## DRAFT FY 2018-2019 Budget

Category	FY 2017-18	FY 2018-19	Change in \$\$\$	Change in %
OPERATING REVENUES			0 ///	
Electricity Sales	\$247,213,713	\$235,967,569	\$ (11,246,144)	-5%
ECO100 Premium	737,000	750,842	13,842	2%
Revenues	247,950,713	236,718,411	(11,232,302)	-5%
OPERATING EXPENSES	-			
Cost of energy	181,715,000	176,147,894	(5,567,106)	-3%
Data Manager	3,970,000	3,758,400	(211,600)	-5%
Service Fees - PG&E	1,636,000	1,260,000	(376,000)	-23%
Bad Debt expense	865,248	828,514	(36,734)	-4%
Communications and Outreach	1,049,000	1,010,600	(38,400)	-4%
General and Administrative	795,207	1,227,200	431,993	54%
Professional Services	1,017,000	1,432,511	415,511	41%
Energy Programs	250,000	3,200,000	2,950,000	1180%
Legal	1,030,000	1,146,600	116,600	11%
Personnel	3,319,605	4,492,745	1,173,140	35%
Total Operating Expenses	195,647,060	194,504,465	(1,142,596)	-1%
	F2 202 CF2	42 242 046	(10.000.706)	100/
Operating Income (Loss)	52,303,653	42,213,946	(10,089,706)	-19%
NON-OPERATING REVENUES (EXP.)				
Interest Income	-	440,000	440,000	0%
Interest and related expense	_	(48,000)	(48,000)	0%
Nonoperating Revenues (Exp.)	-	392,000	392,000	0%
		,	,	
OTHER USES.				
Capital Outlay	484,000	42,000	(442,000)	-91%
Debt Service Principal	7,997,000	-	(7,997,000)	-100%
Other Uses	8,481,000	42,000	(8,439,000)	-100%
CHANGE IN NET POSITION				
Net Position at the beginning of period	21,710,529	65,533,182	43,822,653	202%
Increase in Net Position	43,822,653	42,563,946	(1,258,706)	-3%
Net Position at the end of period	65,533,182	108,097,128	42,563,946	65%

### **Next Steps**

Projections for FY 2019 – FY 2023

Run Scenarios

Reserves Policy

### Regular Agenda

# 10. Risks and Hedging for Power Purchases (Discussion)

# Risks and Hedging for Power Purchases

May 24, 2018

Chelsea Keys Power Resources Manager



### Agenda

- What is an energy hedge?
- How hedging mitigates market risk
- PCE's open position
- Review CAISO market prices in 2017
- PCE's hedging strategy



### What is a energy hedge?

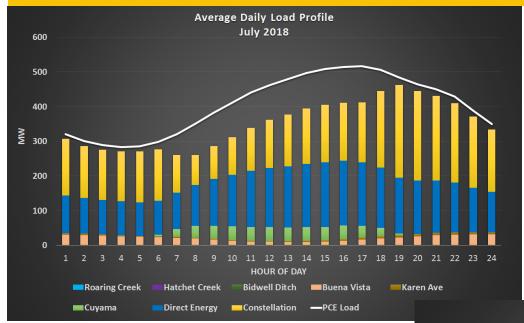
- A hedge is when a buyer agrees to pay a seller a fixed price for a particular quantity of energy, and for a specific time period.
- Hedging allows us to manage our cost of energy vs. buying energy from the market
  - The CAISO market works similar to the stock market;
     it's volatile and exposes participants to unpredictable risk

### How hedging mitigates market risk

- At PCE, we reduce our risk of market exposure by hedging to cover our open position
  - Helps us maintain our low rates for our customers
- Budget energy costs and ensure future cash flows with more confidence
- IRP Open Position Guidelines

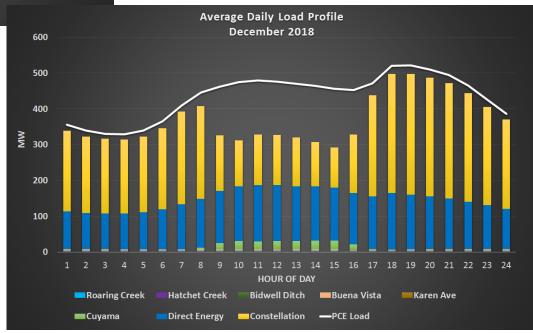
	Percentage of Load Procured		
	Min	Max	
<b>Current Year</b>	90%	100%	
Year 2	75%	90%	
Year 3	65%	80%	
Year 4	55%	70%	

### PCE's Open Position: July & December



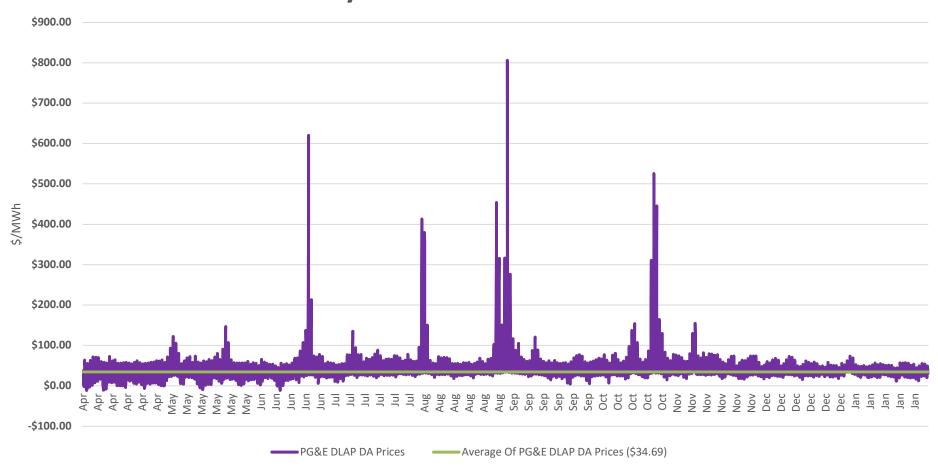
 PCE's load profile prior to completing our 2018 hedge

 Avg. daily load demand is different depending on the time of year



### **Energy Prices in 2017**





### PCE's Hedging Strategy

Forecast future open position

3. Suppliers send indicative offers

5. PCE
negotiates price
& selects
winning supplier

2. Solicit offers to supply a shaped energy hedge

4. PCE reviews & invites competitive offers to final round of bidding

### Regular Agenda

# 11. Board Members' Reports (Discussion)

## Regular Agenda

## **Adjourn**