#### **VCEA Implementation Plan Development**

September 27, 2017



# Overview

- Purpose of Implementation Plan
- Resource Portfolio Options Modeled
- Financial Impact
- Decisions needed
  - Planned resource portfolio
  - Planned rate

# **Implementation Plan**

- Perfunctory filing used to notify CPUC of intent to begin operations as a CCA
- Contains high-level overview of service area, resource mix, rate structure, finances, organizational structure, etc.
- Does not commit the organization to a specific path, and can be modified at any time

# **Resource Portfolios Modeled**

Portfolio	Description	Notes
A	Minimum Renewable (PCC1) 100% Clean	Lowest cost. Meets RPS standards. Becomes more expensive in later years. May be difficult to procure enough large hydro for 100% clean.
В	50% Renewable - 75% PCC1 - 25% PCC2 75% Clean	Higher cost. Use of some PCC2. PCC2 use could be increased for the non-RPS renewable content to lower costs.
С	50% Renewable - 100% PCC1 75% Clean	Highest cost. All PCC1.

### **Resource Portfolios**



# Portfolio A

			2018	2019	2020	2021	2022	2023	2024	2025	2026	2027
Resou	rce Scenari	<b>o A - M</b> inimum Re	enawable	and Balaı	nce of No	n Renewa	able Carbo	on Free (1	00% Clea	n)		
Tota	al Renewable (	Content	35.0%	35.0%	35.0%	35.0%	36.5%	38.3%	40.0%	41.7%	43.3%	45.0%
	PCC 1	Calculated	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%
	PCC 2	Calculated	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
	PCC 3	Calculated	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
	<b>RPS Requ</b>	uired Minimums	29.0%	31.0%	33.0%	34.8%	36.5%	38.3%	40.0%	41.7%	43.3%	45.0%
		PCC 1	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%
		PCC 2	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
		PCC 3	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
_	Increment	tal Renewables	6.00%	4.0%	2.0%	0.2%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
		PCC 1	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%
		PCC 2	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
		PCC 3	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
Non	n Renewable C	arbon Free	65.0%	65.0%	65.0%	65.0%	63.5%	61.7%	60.0%	58.3%	56.7%	55.0%
Tota	al Carbon Free	)	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%

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# Portfolio B

			2018	2019	2020	2021	2022	2023	2024	2025	2026	2027
Re	source Scenario	oB 50% Renew	able (75%	PCC1/2	25% PCC2	2) & 25%	Non Rene	wable Ca	rbon Free	e (75%)		
	Total Renewable C	Content	50.0%	50.0%	50.0%	50.0%	50.0%	50.0%	50.0%	50.0%	50.0%	50.0%
	PCC 1	Calculated	75.0%	75.0%	75.0%	75.0%	75.0%	75.0%	75.0%	75.0%	75.0%	75.0%
	PCC 2	Calculated	25.0%	25.0%	25.0%	25.0%	25.0%	25.0%	25.0%	25.0%	25.0%	25.0%
	PCC 3	Calculated	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
	RPS Requ	uired Minimums	29.0%	31.0%	33.0%	34.8%	36.5%	38.3%	40.0%	41.7%	43.3%	45.0%
		PCC 1	75%	75%	75%	75%	75%	75%	75%	75%	75%	75%
		PCC 2	25%	25%	25%	25%	25%	25%	25%	25%	25%	25%
		PCC 3	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
	Increment	tal Renewables	21.0%	19.0%	17.0%	15.2%	13.5%	11.7%	10.0%	8.3%	6.7%	5.0%
		PCC 1	75%	75%	75%	75%	75%	75%	75%	75%	75%	75%
		PCC 2	25%	25%	25%	25%	25%	25%	25%	25%	25%	25%
		PCC 3	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
	Non Renewable C	arbon Free	25.0%	25.0%	25.0%	25.0%	25.0%	25.0%	25.0%	25.0%	25.0%	25.0%
	Total Carbon Free		75.0%	75.0%	75.0%	75.0%	75.0%	75.0%	75.0%	75.0%	75.0%	75.0%

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# Portfolio C

			2018	2019	2020	2021	2022	2023	2024	2025	2026	2027
Re	source Scenario	o C 50% Renewa	able (100%	% PCC1) 8	& 25% No	n Renewa	able Carb	on Free (7	′5%)			
	Total Renewable C	Content	50.0%	50.0%	50.0%	50.0%	50.0%	50.0%	50.0%	50.0%	50.0%	50.0%
	PCC 1	Calculated	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%
	PCC 2	Calculated	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
	PCC 3	Calculated	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
	RPS Requ	uired Minimums	29.0%	31.0%	33.0%	34.8%	36.5%	38.3%	40.0%	41.7%	43.3%	45.0%
		PCC 1	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%
		PCC 2	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
		PCC 3	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
	Increment	tal Renewables	21.0%	19.0%	17.0%	15.2%	13.5%	11.7%	10.0%	8.3%	6.7%	5.0%
		PCC 1	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%
		PCC 2	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
		PCC 3	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
	Non Renewable C	arbon Free	25.0%	25.0%	25.0%	25.0%	25.0%	25.0%	25.0%	25.0%	25.0%	25.0%
	Total Carbon Free	1	75.0%	75.0%	75.0%	75.0%	75.0%	75.0%	75.0%	75.0%	75.0%	75.0%

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# Financial Impact – Overview

- Ran three rate scenarios:
  - Net of PCIA fee, customers see:
    - 3% discount relative to PG&E
    - 1% discount relative to PG&E
    - Same rate as PG&E
  - Note: discount applies to only the generation portion of the bill, so a 1% reduction in generation may result in only ~0.5% reduction overall.
- Each rate scenario was run for each portfolio
- Assume 3% PCIA increase annually 2018-2021
- Funding for local development, DER, EE, and more aggressive NEM/FIT rates not included. These would need to be funded out of remaining net income.

### Draft Pro Forma – 1% rate discount, Portfolio A

Approximate reserves built in 2019 and 2020 for each combination of rate discount and resource portfolio

			1						
2019 Annual Op Ir Rate Disc 🎞									
Resource Portf	0%	1%	3%						
А	\$9,166	\$8,427	\$6,944						
В	\$8,924	\$8,185	\$6,702						
С	\$7,949	\$7,209	\$5,727						
2020 Annual Op Ir	2020 Annual Op Ir Rate Disc 🎞								
Resource Portf	0%	1%	3%						
Α	\$7,637	\$6,886	\$5,382						
В	\$7,452	\$6,701	\$5,197						
С	\$6,473	\$5,722	\$4,218						

### Cumulative reserves built through first 5 and 10 years

5yr Cumulative Ol Rate Disc									
0%	1%	3%							
7,342	\$33,080	\$24,537							
6,360	\$32,098	\$23,555							
),823	\$26,560	\$18,018							
10yr Cumulative ( Rate Disc 🔟									
0%	1%	3%							
9,630	\$61,209	\$44,329							
7,966	\$59,545	\$42,666							
7,049	\$48,628	\$31,749							
	0% 7,342 5,360 0,823 0isc 1 0% 9,630 7,966 7,049	0% 1%   0% 1%   7,342 \$33,080   5,360 \$32,098   0,823 \$26,560   0isc. 1%   0% 1%   9,630 \$61,209   7,966 \$59,545   7,049 \$48,628							

### Financials – Portfolio A



### Financials – Portfolio B



### Financials – Portfolio C



### Notes

- Local control of tradeoffs is a key reason for CCA existence.
- Building up a larger reserve quickly will provide flexibility in implementing future programs, and buffer against legislative and regulatory risks.

# **Discussion and Next Steps**

- Desired Portfolio and Rates CAC discussion
- Next Steps:
  - Present to VCEA Board
  - Continue to refine model
    - Improved load forecast
    - Potential contract prices
    - Updated breakdown of rate classes