

January 24, 2018 10:00 am - 12:00 pm PPT

Offers due Friday, February 9, 2018 12:00 pm PPT

Participants must pre-register by Friday, February 2, 2018 to participate



PCE Team





Siobhan DohertyDirector of Power Resources

Eric WeinerRenewable Energy Analyst

Agenda

- RFO Overview
- PCE Open Position
- Requirements and Evaluation
- Offer Submittal
- Webinar Q&A

Housekeeping

- All participants will be muted during the Webinar.
- During the Q&A portion, you can raise your hand if you have a question and the moderator will un-mute you.
 - You also have the option to text written questions to the moderator on the GoToMeeting sidebar and we will read the question for you and then respond.
- These slides and responses to any questions received by Friday January 19th are posted to the RFO Web site.

Overview

- Peninsula Clean Energy (PCE) is a community choice energy (CCE) program.
- PCE is San Mateo County's official electricity provider.
- PCE is a joint powers agency, formed in February 2016, consisting of the County of San Mateo and all twenty of its cities.
- PCE mission to provide residents and businesses in San Mateo County with high percentages of renewable and carbon-free energy at competitive prices.
- This RFO seeks offers for generating resources certified by the California Energy Commission as Eligible Renewable Resources.
- PCE provides cleaner and greener electricity, at lower rates than the incumbent investor-owned utility (IOU), Pacific Gas & Electric Company (PG&E).

Integrated Resource Plan

- In December 2017, PCE's Board approved PCE's first Integrated Resource Plan (IRP):
 - Documents PCE's current procurement status; and
 - Outlines PCE's resource planning policies and objectives over a ten-year planning timeframe.
- Participants are encouraged to closely read this document to understand PCE's priorities in building its supply portfolio.
- You can download and review the IRP here: https://www.peninsulacleanenergy.com/our-power/energy-sources/.

PCE Procurement Goals and Policies



PCE Strategic Goals

Adopted by PCE's Board of Directors in October 2016

Design a diverse power portfolio that is greenhouse gas free

- 100% GHG free by 2021
- 100% CA RPS-eligible renewable energy⁸ by 2025
- Minimum of 20 MWs of new local power by 2025

Continually strive to offer ECOplus at rates that are at parity or lower than PG&E rates

Stimulate development of new renewable energy projects and clean-tech innovation in San Mateo County and California through PCE's procurement activities

Demonstrate quantifiable economic benefits to the County/region and place a priority on local hiring and workforce development practices and environmental justice

Implement programs to further reduce greenhouse gas emissions by investing in programs such as local clean power production, electric vehicles, energy efficiency, and demand response, and partnering effectively with local business, schools, and nonprofit organizations

Maximize and maintain customer participation in PCE

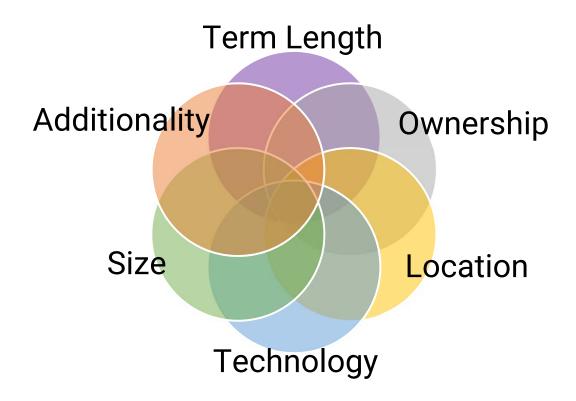
- Provide a superior customer experience
- Develop PCE brand awareness and loyalty throughout the County
- Actively encourage voluntary participation in its EC0100 renewable energy product
- Actively encourage participation in other programs PCE develops
- Achieve recognition from the EPA's Green Power Partnership for Green Power Communities for all cities with municipal accounts enrolled in EC0100 by 2018

Build a financially sustainable organization

- · Build sufficient reserves in a rate stabilization fund
- Achieve an investment grade credit rating by 2021

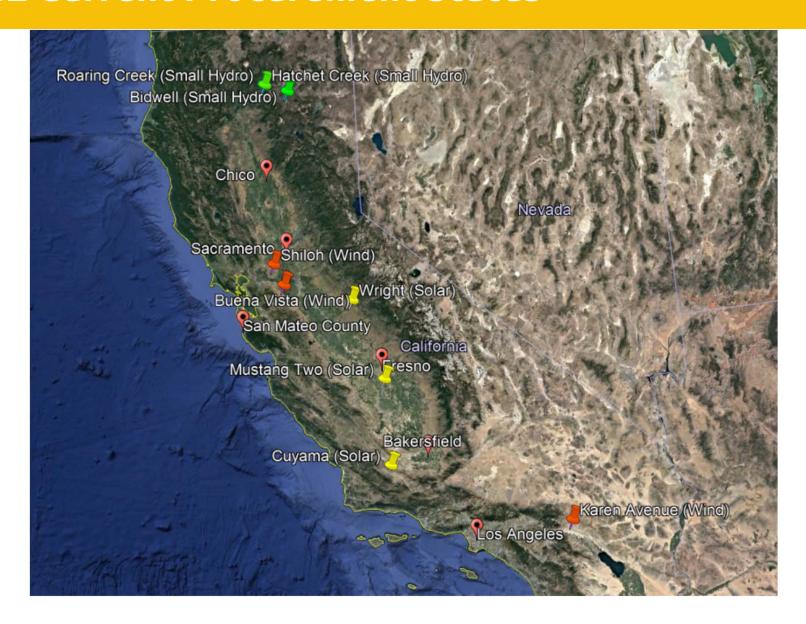
Foster a work environment that espouses sustainable business practices and cultivates a culture of innovation, diversity, transparency, integrity, and commitment to the organization's mission and the communities it serves

Designing A Diverse Portfolio



 PCE has executed 9 PPAs for project specific renewable energy purchases

Resource (Technology)	Size (MW)	Contract Term (Years)	Owner (or Developer)	Location (County)
Solar	200	25	Frontier	Merced
	100	15	Recurrent	Kings
	40	1	First Solar	Santa Barbara
Wind	25-150	5	Avangrid	Solano
	38	5	Leeward	Contra Costa
	11.7	3	EDCC	Riverside
Small Hydro	7.5	5	Hydrodynamics	Shasta
	2	2	Hydrodynamics	Shasta
	2	2	Hydrodynamics	Shasta



 PCE has executed four contracts to purchase RPS-eligible energy from non-project-specific sources

Resource (Technology)	Contract Term (Years)	Owner (or Developer)	Location
Renewable	4	Direct	WECC
	<1	PG&E	California
	<1	Powerex	WECC
	2	Constellation	WECC

PCE has signed four contracts to meet our GHG-Free targets

Resource (Technology)	Contract Term (Years)	Owner (or Developer)	Location
GHG-Free	4	Direct	California
	4	Tenaska	California
	1	Powerex	California
	<1	Morgan Stanley	California

PCE has executed two contracts to hedge power prices

Resource (Technology)	Contract Length (Years)	Owner (or Developer)	Location
System	4	Direct	WECC
	2	Constellation	WECC

- We've adopted the following contracting guidelines for fixed price contracts
 - Forward contracts increase cost certainty
 - Maintain flexibility and ensure portfolio diversification
- Annual procurements to meet 15-25% of load (550 950 GWh)

	% of Load	Procured
	Min	Max
Current Year	90%	100%
Year 2	75%	90%
Year 3	65%	80%
Year 4 and Beyond	55%	70%

Additionality

- Additionality means that a project or activity would not have happened without the buyer
- Target: Minimum 50% of portfolio from "New" projects v. existing projects
- New: Means projects that PCE causes to be built or repowered
- Repowered: For repowered facilities to count towards our new goal, would require a significant investment in the repowering



Term Length

- Target 50% of portfolio from long term contracts
- Fill remainder of portfolio with diversity of contract lengths

	2021	2022	2023	2024	2025
Long (>10 yrs)	50%	50%	50%	50%	50%
Short (<1 yr)	15%	15%	15%	15%	15%
Medium (1-4 yrs)	17.5%	17.5%	17.5%	17.5%	17.5%
Interm. (5-10 yrs)	17.5%	17.5%	17.5%	17.5%	17.5%

Project Size

Guideline

Pursue diversity of project sizes

No one project output makes up more than 15% of GWh load

Ownership

- Limit exposure to any one developer/owner
- Ensure developer/owner has experience to develop/operate project

Guideline

No more than 15% of GWh load from any one owner

Experience developing & operating similar size projects

Financing plan and successful track record with finance organizations

Don't work with owners that oppose CCAs

Financially stable organization

Resource / Technology Mix

- Limit exposure to any one manufacturer
- Match our generation profile to our load profile

Guideline

Procure from diverse set of technologies to match supply to load No more than 20-25% of load from any one manufacturer





Location

- Limit exposure to price differentials between our service territory and project locations
- Limit exposure to any one pricing node
- Diversify generation profiles to aggregate portfolio to match load

Guideline

Prioritize projects / locations to minimize congestion pricing

No more than 15% of load from one LMP / interconnection point

Supports PCE's Sustainable Workforce Policy

Evaluate environmental impacts

Prioritize projects that help to match supply to load

RFO Overview

RFO Process

1 PRE-REGISTRATION

RFO Participant Pre-Registers and Receives a Secure, Unique Box Folder Email Address and Developer Code for naming documents.

Participant MUST Pre-Register before February 2nd to participate and submit RFO Proposals.

February 2nd is also the deadline to submit additional questions.

2 OFFERS DUE

Participant Completes All Necessary RFO Documents. Submits Offer Form through Google Forms and uploads all other documents via email to Unique Box Email Address.

Participant is allowed to submit multiple offers. Please refer to the RFO instructions on the naming convention for multiple proposals.

Participants' Offers must be submitted by Friday, February 9, 2018 at 12:00 pm PPT.

<u>5</u> <u>NEGOTIATIONS AND</u> EXECUTION

PCE will negotiate with shortlisted candidates with intent of PPA execution but may execute none at all. if PCE chooses.

Selected projects will go to PCE's Board for approval.

SHORT-LIST CANDIDATES NOTIFIED

PCE notifies short-listed candidates by Friday March 9th, 2018.

Short-Listed applicants interested in moving forward must provide additional documentation and bid security within 2 weeks of short list notification.

4

PCE EVALUATES OFFERS

PCE Procurement Team downloads and evaluates proposals.

PCE evaluates each offer according to the **Eligibility Criteria** outlined in the RFO instructions.

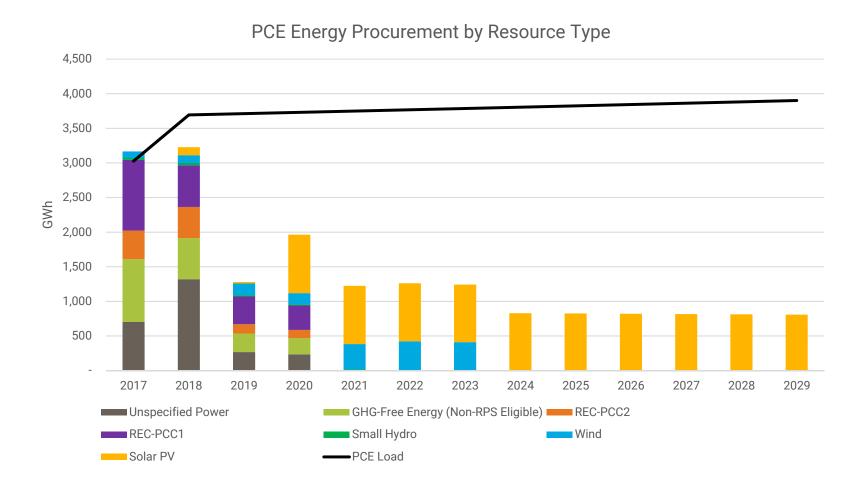
Schedule

Date	Event
Friday, January 12, 2018	PCE launches RFO; publishes RFO instructions, pro form PPA and other RFO documents
Friday, January 19, 2018	Deadline for Webinar question submittal
Wednesday, January 24, 2018, 10:00 am PPT	PCE hosts RFO webinar
Friday, February 2, 2018	Deadline for pre-registration and additional question submittal
Wednesday, February 7, 2018	PCE posts responses to questions
Friday, February 9, 2018, 12:00 pm PPT	Deadline for offer submittal
Friday, March 9, 2018	Anticipated date PCE will notify each participant regarding short-list status
Friday, March 23, 2018	Anticipated deadline for short-listed participants to submit deposits, PPA redlines and additional documents

Communications

- All RFO form documents are available on PCE's website at: https://www.peninsulacleanenergy.com/our-power/pce-2018-renewables-rfo/.
- All announcements, updates and Q&As will be posted on the website.
- All questions must be submitted through the form here: https://docs.google.com/forms/d/1v22HE8FE_aJvMYdre_pJd2dGGQHL0RrKHGpHSyh4g7s/edit.
- All other communications should be directed to: <u>procurement@peninsulacleanenergy.com</u>.

PCE Open Position



HE	2018	Long/(Sho	rt) MWh									
	January	February	March	April	May	June	July	August	September	October	November	December
	-365	-324	-399	-454	-429	-384	-390	-523	-531	-455	-504	-533
	2 -365	-354	-377	-426	-382	-347	-462	-433	-406	-439	-387	-513
	3 -373	-370	-384	-445	-392	-290	-414	-469	-502	-453	-478	-438
	4 -371	-369	-381	-383	-354	-368	-397	-453	-470	-392	-436	-456
	-348	-375	-349	-397	-277	-294	-454	-483	-428	-477	-450	-512
	- 415	-423	-363	-478	-713	-851	-665	-440	-418	-449	-504	-582
	-433	-513	-669	-1,582	-1,853	-2,049	-1,884	-1,665	-1,193	-799	-528	-537
	-749	-1,042	-1,988	-2,801	-2,735	-2,806	-2,816	-2,943	-2,510	-2,151	-1,382	-1,184
	-1,867	-2,007	-2,973	-2,973	-2,898	-2,992	-3,005	-3,122	-2,907	-2,931	-2,307	-4,208
1	-2,362	-2,192	-2,933	-3,100	-3,108	-3,059	-3,102	-3,228	-2,946	-2,942	-2,587	-5,054
1	-2,285	-2,186	-2,982	-3,029	-2,956	-3,142	-3,165	-3,266	-2,979	-2,840	-2,316	-4,681
1	-2,205	-2,060	-2,639	-2,906	-2,958	-3,058	-3,099	-3,222	-2,896	-2,683	-2,325	-4,612
1	-2,033	-2,105	-2,774	-2,948	-3,055	-3,016	-3,172	-3,288	-2,942	-2,748	-2,318	-4,639
1	-2,141	-2,043	-2,749	-2,828	-3,189	-2,947	-3,190	-3,280	-3,077	-2,899	-2,408	-4,866
1	-2,247	-2,169	-2,597	-2,826	-3,126	-3,044	-3,219	-3,361	-3,077	-2,905	-2,385	-5,098
1	-1,836	-2,126	-2,625	-2,804	-3,055	-2,931	-3,211	-3,396	-3,036	-2,358	-1,665	-3,835
1	-669	-1,270	-1,849	-2,419	-2,773	-2,937	-3,213	-2,979	-2,095	-1,143	-592	-1,013
1	-605	-492	-547	-1,308	-1,554	-1,832	-1,885	-1,717	-775	-649	-697	-727
1	9 -619	-612	-558	-556	-551	-574	-639	-803	-736	-712	-753	-745
2	-621	-548	-604	-652	-505	-583	-590	-807	-746	-702	-659	-711
2	-585	-569	-567	-591	-485	-564	-598	-776	-731	-653	-642	-721
2	-520	-453	-543	-593	-515	-526	-608	-686	-607	-642	-562	-656
2	-534	-402	-511	-573	-429	-457	-513	-597	-634	-573	-601	-628
2	-393	-401	-394	-479	-443	-469	-465	-588	-586	-501	-470	-491

HE	2019	Long/(Sho	rt) MWh									
	January	February	March	April	May	June	July	August	Septembe	October	November	December
1	-7,864	-6,947	-6,377	-6,022	-5,290	-5,592	-5,531	-6,067	-6,622	-6,643	-7,548	-7,994
2	-7,535	-6,645	-6,021	-5,680	-4,922	-5,201	-5,135	-5,656	-6,271	-6,279	-7,182	-7,572
3	-7,380	-6,538	-5,870	-5,510	-4,760	-4,978	-4,925	-5,416	-6,067	-6,159	-7,031	-7,353
4	-7,340	-6,521	-5,863	-5,525	-4,750	-4,937	-4,867	-5,352	-5,994	-6,119	-6,971	-7,309
5	-7,622	-6,796	-6,096	-5,692	-4,932	-5,124	-5,023	-5,534	-6,165	-6,337	-7,217	-7,538
6	-8,274	-7,462	-6,681	-6,263	-5,449	-5,558	-5,413	-6,048	-6,670	-6,885	-7,870	-8,097
7	-9,435	-8,663	-7,868	-7,299	-6,240	-6,248	-6,013	-6,829	-7,535	-7,930	-8,986	-9,115
8	-10,284	-9,470	-8,697	-8,071	-7,036	-7,048	-6,715	-7,547	-8,114	-8,680	-9,766	-9,688
9	-10,400	-9,600	-8,873	-8,478	-7,486	-7,686	-7,398	-8,234	-8,620	-8,964	-10,040	-7,922
10	-10,565	-9,778	-9,111	-8,829	-7,979	-8,334	-8,049	-8,973	-9,197	-9,364	-10,282	-7,653
11	-10,590	-9,853	-9,345	-9,136	-8,447	-8,937	-8,732	-9,735	-9,803	-9,775	-10,429	-7,854
12	-10,502	-9,798	-9,416	-9,301	-8,727	-9,370	-9,243	-10,256	-10,261	-10,009	-10,420	-7,879
13	-10,357	-9,742	-9,412	-9,382	-8,849	-9,664	-9,653	-10,699	-10,599	-10,158	-10,357	-7,681
14	-10,161	-9,609	-9,336	-9,366	-8,901	-9,883	-9,984	-11,139	-10,939	-10,271	-10,276	-7,369
15	-9,952	-9,410	-9,151	-9,247	-8,863	-10,029	-10,169	-11,371	-11,171	-10,304	-10,131	-7,131
16	-9,856	-9,244	-8,951	-9,043	-8,749	-10,011	-10,200	-11,444	-11,244	-10,244	-10,045	-7,742
17	-10,174	-9,310	-8,911	-8,881	-8,655	-9,896	-10,178	-11,387	-11,251	-10,155	-10,329	-10,105
18	-11,359	-9,899	-8,989	-8,836	-8,538	-9,693	-9,950	-11,123	-11,109	-10,109	-11,341	-11,741
19	-11,699	-10,474	-9,161	-8,675	-8,221	-9,271	-9,470	-10,516	-10,649	-10,132	-11,404	-11,918
20	-11,531	-10,363	-9,466	-8,791	-8,066	-8,800	-8,981	-9,942	-10,507	-10,258	-11,111	-11,705
21	-11,156	-10,018	-9,438	-9,086	-8,215	-8,495	-8,520	-9,628	-10,175	-9,838	-10,726	-11,378
22	-10,426	-9,268	-8,782	-8,462	-7,804	-8,157	-8,008	-8,824	-9,297	-9,062	-10,033	-10,693
23	-9,452	-8,379	-7,905	-7,550	-6,840	-7,233	-7,110	-7,741	-8,235	-8,103	-9,139	-9,760
24	-8,517	-7,516	-6,986	-6,649	-5,944	-6,305	-6,189	-6,792	-7,259	-7,237	-8,229	-8,760

HE	2020	Long/(Sho	rt) MWh									
	January	February	March	April	May	June	July	August	Septembe	October	November	December
1	-8,472	-7,799	-6,941	-6,616	-5,886	-6,189	-6,142	-6,681	-7,195	-7,204	-8,136	-8,570
2	-8,132	-7,473	-6,575	-6,232	-5,486	-5,754	-5,723	-6,222	-6,823	-6,823	-7,740	-8,138
3	-7,964	-7,328	-6,397	-6,064	-5,318	-5,508	-5,470	-5,963	-6,609	-6,675	-7,576	-7,912
4	-7,931	-7,323	-6,400	-6,068	-5,283	-5,461	-5,399	-5,893	-6,523	-6,632	-7,535	-7,867
5	-8,221	-7,638	-6,635	-6,260	-5,463	-5,620	-5,554	-6,056	-6,694	-6,856	-7,787	-8,100
6	-8,936	-8,406	-7,259	-6,812	-5,123	-4,725	-4,597	-6,350	-7,211	-7,469	-8,479	-8,701
7	-10,160	-9,726	-8,161	-5,915	-3,118	-2,480	-440	-2,717	-5,518	-7,855	-9,669	-9,804
8	-10,858	-9,828	-6,244	-4,930	-2,827	-2,090	990	-273	-1,917	-4,212	-8,324	-10,257
9	-9,427	-8,377	-5,306	-4,604	-2,746	-2,431	872	-259	-1,228	-3,180	-6,095	-7,916
10	-8,776	-8,154	-5,157	-4,694	-3,227	-3,063	132	-905	-1,670	-3,003	-5,979	-7,181
11	-8,777	-8,221	-5,323	-5,064	-3,662	-3,725	-621	-1,796	-2,481	-3,685	-6,091	-7,241
12	-8,832	-7,986	-5,537	-5,161	-3,895	-4,187	-1,198	-2,454	-3,239	-4,126	-6,334	-7,220
13	-8,822	-7,974	-5,540	-5,362	-4,087	-4,545	-1,697	-2,977	-3,709	-4,289	-6,289	-6,963
14	-8,493	-7,573	-5,449	-5,390	-4,133	-4,856	-2,087	-3,568	-4,133	-4,353	-6,065	-6,606
15	-8,223	-7,660	-5,143	-5,301	-3,999	-4,998	-2,361	-3,806	-4,324	-4,339	-6,035	-6,377
16	-8,460	-7,773	-4,913	-5,280	-3,967	-5,081	-2,560	-3,983	-4,648	-4,967	-6,607	-7,395
17	-10,267	-8,785	-5,795	-5,729	-4,642	-5,373	-2,970	-4,579	-5,833	-7,722	-10,366	-10,772
18	-12,257	-10,961	-8,521	-7,361	-5,666	-6,283	-4,308	-6,886	-9,871	-10,884	-12,217	-12,604
19	-12,581	-11,788	-9,925	-9,392	-8,204	-8,487	-8,094	-10,684	-11,494	-10,974	-12,279	-12,786
20	-12,383	-11,639	-10,242	-9,578	-8,896	-9,596	-9,834	-10,850	-11,357	-11,101	-11,957	-12,538
21	-11,998	-11,243	-10,214	-9,913	-9,055	-9,294	-9,365	-10,507	-11,021	-10,612	-11,531	-12,172
22	-11,187	-10,391	-9,500	-9,241	-8,599	-8,931	-8,808	-9,645	-10,069	-9,780	-10,767	-11,450
23	-10,156	-9,411	-8,570	-8,251	-7,558	-7,923	-7,826	-8,474	-8,928	-8,760	-9,818	-10,463
24	-9,166	-8,461	-7,597	-7,285	-6,580	-6,919	-6,846	-7,453	-7,889	-7,816	-8,855	-9,407

Open Position 2021 - 2023

HE	2021	Long/(Short)	MWh									
	January	February	March	April	May	June	July	August	September	October	November	December
1	-11,342	-10,323	-9,597	-9,386	-6,977	-6,814	-6,650	-7,300	-8,539	-8,938	-10,273	-10,882
2	-10,898	-9,917	-9,126	-8,899	-6,493	-6,289	-6,094	-6,721	-8,062	-8,436	-9,713	-10,346
	-10,694	-9,743	-8,903	-8,656	-6,300	-6,043	-5,803	-6,375	-7,780	-8,312	-9,652	-10,145
	-10,675	-9,744	-8,904	-8,656	-6,310	-6,013	-5,747	-6,333	-7,713	-8,390	-9,618	-10,050
	-11,080	-10,141	-9,217	-8,896	-6,531	-6,185	-5,876	-6,625	-7,983	-8,751	-9,980	-10,366
	-12,030	-11,093	-10,027	-9,509	-5,959	-4,754	-5,081	-7,073	-8,821	-9,680	-10,914	-11,141
	-13,671	-12,735	-10,945	-7,689	-2,679	-1,422	-1,266	-3,733	-7,588	-10,458	-12,450	-12,595
8	-14,560	-12,638	-7,913	-5,815	-2,032	-1,031	-401	-1,683	-4,358	-7,173	-11,410	-13,353
9	-12,622	-10,444	-6,709	-5,703	-2,295	-1,774	-1,025	-2,138	-4,121	-6,458	-9,373	-11,330
10	-11,862	-9,945	-6,520	-6,061	-3,137	-2,817	-2,274	-3,267	-4,915	-6,612	-9,441	-10,816
11	-11,856	-9,888	-6,743	-6,515	-3,920	-3,903	-3,532	-4,732	-6,116	-7,465	-9,683	-10,861
12	-11,801	-9,798	-6,987	-6,730	-4,311	-4,669	-4,515	-5,749	-7,191	-8,070	-9,934	-10,739
13	-11,566	-9,815	-6,963	-7,019	-4,497	-5,156	-5,248	-6,539	-7,841	-8,304	-9,884	-10,276
14	-11,028	-9,456	-6,818	-7,000	-4,541	-5,571	-5,719	-7,295	-8,425	-8,415	-9,705	-9,901
15	-10,641	-9,515	-6,462	-6,924	-4,379	-5,597	-5,957	-7,514	-8,636	-8,360	-9,679	-9,719
16	-10,992	-9,600	-6,306	-6,867	-4,303	-5,491	-5,909	-7,550	-8,850	-8,861	-10,115	-10,708
17	-13,748	-11,095	-7,473	-7,323	-4,926	-5,436	-5,975	-7,833	-9,819	-11,334	-13,851	-14,084
18	-16,455	-14,336	-11,510	-9,892	-6,400	-6,680	-6,834	-9,727	-13,443	-14,227	-15,943	-16,243
19	-16,763	-15,376	-13,528	-12,989	-10,135	-9,991	-10,143	-13,121	-14,681	-14,174	-15,867	-16,356
20	-16,421	-15,123	-13,944	-13,329	-11,069	-11,503	-11,724	-12,978	-14,421	-14,273	-15,355	-15,975
21	-15,856	-14,585	-13,839	-13,750	-11,247	-11,062	-11,113	-12,387	-13,849	-13,510	-14,784	-15,465
22	-14,800	-13,520	-12,876	-12,812	-10,541	-10,534	-10,270	-11,181	-12,525	-12,303	-13,756	-14,474
23	-13,450	-12,272	-11,638	-11,488	-9,086	-9,052	-8,895	-9,565	-11,003	-10,799	-12,524	-13,275
24	-12,202	-11,098	-10,407	-10,240	-7,821	-7,725	-7,569	-8,285	-9,566	-9,607	-11,256	-11,909

Open Position 2024 and Beyond

HE	2024	Long/(Short) M	1Wh									
	January	February	March	April	May	June	July	August	September	October	November	December
	-12,200	-11,797	-10,672	-10,876	-10,617	-10,778	-11,138	-11,520	-11,477	-10,946	-11,720	-12,303
	-11,715	-11,329	-10,180	-10,324	-10,058	-10,128	-10,476	-10,858	-10,872	-10,431	-11,241	-11,736
	-11,483	-11,102	-9,924	-10,030	-9,723	-9,727	-10,046	-10,427	-10,474	-10,124	-10,967	-11,421
	-11,446	-11,073	-9,885	-9,973	-9,623	-9,557	-9,846	-10,231	-10,297	-10,011	-10,899	-11,367
	-11,864	-11,481	-10,173	-10,200	-9,738	-9,588	-9,916	-10,384	-10,476	-10,248	-11,260	-11,738
	-12,873	-12,525	-11,007	-10,796	-9,050	-8,084	-9,025	-10,699	-11,124	-11,050	-12,216	-12,629
	-14,629	-14,345	-11,988	-9,016	-5,784	-4,661	-5,132	-7,375	-9,746	-11,799	-13,824	-14,199
	-15,599	-14,323	-9,057	-7,177	-5,070	-4,061	-4,020	-5,273	-6,534	-8,611	-12,876	-15,001
	-13,721	-12,168	-7,895	-7,090	-5,292	-4,717	-4,505	-5,645	-6,256	-7,899	-11,061	-13,022
1	-12,992	-11,687	-7,747	-7,487	-5,960	-5,579	-5,538	-6,538	-7,059	-8,063	-11,214	-12,509
1	-12,983	-11,667	-7,981	-7,966	-6,551	-6,452	-6,548	-7,636	-8,155	-9,006	-11,517	-12,707
1:	-12,910	-11,560	-8,210	-8,168	-6,812	-7,067	-7,312	-8,459	-9,137	-9,588	-11,804	-12,678
1:	-12,659	-11,591	-8,194	-8,468	-7,079	-7,592	-8,007	-9,163	-9,770	-9,825	-11,727	-12,346
1-	-12,114	-11,254	-8,058	-8,465	-7,328	-8,138	-8,626	-9,977	-10,434	-9,998	-11,467	-11,907
1:	-11,702	-11,211	-7,709	-8,414	-7,385	-8,435	-9,105	-10,432	-10,768	-10,037	-11,364	-11,574
1	-12,025	-11,267	-7,564	-8,428	-7,510	-8,650	-9,440	-10,709	-11,090	-10,616	-11,803	-12,449
1	-14,753	-12,790	-8,730	-8,939	-8,347	-9,015	-9,932	-11,324	-12,194	-13,204	-15,453	-15,865
1	-17,536	-16,125	-12,724	-11,500	-10,032	-10,541	-11,155	-13,449	-15,922	-16,109	-17,538	-18,062
1	-17,878	-17,276	-14,752	-14,546	-13,771	-13,858	-14,590	-16,876	-17,216	-16,126	-17,480	-18,095
2	-17,529	-17,033	-15,208	-14,960	-14,732	-15,432	-16,168	-16,975	-17,097	-16,302	-16,973	-17,698
2	-16,946	-16,465	-15,113	-15,448	-15,091	-15,161	-15,691	-16,701	-16,635	-15,623	-16,342	-17,153
2	-15,840	-15,330	-14,114	-14,509	-14,410	-14,609	-14,952	-15,555	-15,322	-14,464	-15,253	-16,138
2	-14,429	-13,976	-12,827	-13,124	-12,954	-13,193	-13,520	-13,961	-13,757	-13,086	-13,910	-14,762
2	-13,103	-12,694	-11,561	-11,804	-11,600	-11,820	-12,161	-12,544	-12,375	-11,814	-12,646	-13,372

Preferred Products

- PCE is particularly interested in products that help meet the following open positions:
 - PCC 1: 1-2 year contracts covering 2018-2019;
 - PCC 2: 1-2 year contracts covering 2019-2020;
 - Fixed price contracts to fill in the open hours identified in the previous slides:
 - Medium (5-10 years) and long-term (10+ years) contracts;
 and
 - Renewables with or without storage;
 - In-state and out-of-state wind projects; and
 - New or existing projects.

Requirements and Evaluation

Eligible Products

- Generating facilities must be an eligible renewable resource (ERR) per the California Energy Commission.
- Located within Western Electricity Coordinating Council (WECC) territory.
- Minimum 1 megawatt (MW) AC; maximum 500,000 megawatt-hours (MWh) per year from any one project.
- Both new and existing projects are eligible.
- Development milestones:
 - Site control; and
 - CAISO Phase 2 interconnection study or greater.
- RECs must be transferred to PCE via the Western Renewable Energy Generation Information System (WREGIS).

Eligible Products – PCC1

- For Portfolio Content Category (PCC) 1:
 - Product includes all:
 - Electric energy,
 - Green Attributes/Renewable Energy Credits (RECs), and
 - Capacity Attributes (if available);
 - Single, flat price per MWh delivered to the generator's pricing node (Pnode); and
 - And a single, flat price per MWh delivered to the NP15 trading hub.
- Respondents may propose alternative pricing options so long as the aforementioned pricing requirements have been satisfied.

Eligible Products – PCC2

- For PCC 2:
 - Index plus a single, flat REC premium; and
 - May also include an offer with a single, flat price per MWh.
- Respondents may propose alternative pricing options so long as the aforementioned pricing requirements have been satisfied.

Evaluation Criteria

Quantitative	Qualitative
Market forward prices	Project viability including status of interconnection, site control, and permits
Value of capacity	Technology viability
Value of energy storage	Location
Proposed contract price	Project team experience
	Financing plan and financial stability of owner/developer
	Consistency with PCE's mission statement and Integrated Resource Plan
	Consistency with PCE's Workforce Policy
	Consistency with PCE's Sustainable Vendor Policy
	Environmental impacts and related mitigation requirements

Offer Submittal

Offer Submittal

Required Information and Documents

- Participants may submit multiple projects and may submit variations (separate offers) on each project.
- Only complete electronic submittals using the Offer Form and emails to your unique email address will be accepted.
- Document naming convention:
 - DeveloperCode_ProjectName_ProjectVariation_Document
 Name.pdf (for all non-Excel files); and
 - DeveloperCode_ProjectName_ProjectVariation_Document
 Name.xlsm (for all Excel files).
 - *Developer Code will be assigned during the pre-registration process.

Required Information and Documents

- Submit all documents into the RFO's document management system as email attachments using your unique RFO email address.
 - No text in the body of the email.
 - The cumulative size of the attachments cannot exceed 80 MB.
 - Please only submit final documents as there is no way for a Participant to delete a document from the system once submitted.
 - You will receive an email confirmation once your document is uploaded to the system.

Documents Due by February 9th 12 PM PPT

- By the offer submittal deadline:
 - A <u>cover letter</u> defining the relationships among offers for each project.
 - A document describing the roles, experience and qualifications of all <u>project team</u> members.
 - A document addressing PCE's <u>Sustainable Workforce</u>
 <u>Policy.</u>
 - A document addressing PCE's <u>Ethical Vendor Standards</u>.
 - One complete, separate <u>Offer Form</u> for each project/offer combination.
 - A completed Generation Profile and LMP Historical Data form.
 - A document describing the <u>project's characteristics and</u> <u>development status.</u>
- Please see the RFO instructions for more information on each document.

Evaluation & Notification

- Following the submission deadline, PCE will download all proposals.
- We will evaluate against the evaluation criteria identified above.
- Once we have completed our evaluation, we will notify Participants of the status of their proposal.
- We expect to complete the evaluation and notifications by March 9, 2018.

Documents Required for Short-Listed Participants

- Two weeks following short-list notification:
 - Short-listing deposit of \$3.00/kW AC of project capacity;
 - An executed confidentiality agreement;
 - A complete **redline** of the pro forma PPA;
 - The most recent <u>Phase 2 Interconnection Study</u> and (if available) interconnection agreement;
 - Site map, showing nearest cross streets, latitude and longitude; and
 - Demonstration of site control.

Q&A

Q&A Process

- Participants submitted written questions through Friday, January 19, 2018.
- PCE will discuss each question and provide a response during the webinar.
- Subsequently, PCE will provide a written summary of Q&A discussed during the webinar.
- The written responses will take precedence over responses given during the webinar.
- Participants will have until February 2, 2018 to submit additional written questions.
- PCE will post responses to all questions by February 7, 2018.

#	Question	Response
1	Can we bid pricing for individual projects, and pricing for all projects as a portfolio?	Yes, please refer to page 11 of the RFO Instructions. As long as a bidder provides the required pricing scenarios, alternatives may also be proposed.
2	For pricing scenarios, would with union labor and without union labor be considered two different configurations?	Yes, if this would result in different prices.
3	How will a Renewable+Storage resource be compared against a Renewable only resource based on the evaluation criteria laid out in the RFO?	PCE will evaluate the benefits and costs as explained in the RFO Instructions.
4	Are there additional benefits/values that PCE can gain from a Renewable+Storage project beyond shaping of renewable energy?	Yes, although shaping the renewable energy output is the primary benefit. Other benefits may include grid resiliency, incremental RA, and ancillary services.
5	For offers that incorporate storage, does PCE have a preferred pricing structure?	No, we are open to different pricing structures.

#	Question	Response
6	Is there a certain storage size or time to dispatch that is preferred with a storage option?	No, this is up to the Participant. We encourage you to review the Open Position heat maps in Appendix A of the RFO Instructions.
7	For a combined solar and storage offer, does PCE have any minimum requirements or preferred ratios for the storage component?	No, this is up to the Participant. We encourage the Participant to propose projects that will have the greatest value to PCE based on the information provided in the Open Position tables and the IRP.
8	For a combined solar and storage offer, in addition to shifting energy to meet hourly demand, do you want the combined resource to be capable of satisfying resource adequacy requirements? How do you define resource adequacy in this context?	If the storage offer is able to provide resource adequacy we will include this in the evaluation of the offer.

#	Question	Response
9	For a combined solar and storage offer, do you prefer to reserve a portion of the battery for ancillary services (i.e. regulation or load following?) If so, is there an optimal percentage that you would like to reserve?	No, this is up to the Participant. We encourage the Participant to propose projects that will have the greatest value to PCE based on the information provided in the Open Position tables and the IRP.
10	Is the \$3/kW-ac offer deposit requirement applicable to an energy storage system's capacity in addition to the renewable energy generator capacity (for offers that incorporate energy storage), or is it solely assessed based upon the renewable energy generator's capacity?	For offers that include storage, this would apply to the combined storage + energy facility capacity.
11	Does PCE have a preferred pro forma PPA/PPA provisions for 1) offers that incorporate storage and 2) hub-settled products (as bidders are instructed to provide pricing for both p-node and hub delivery)?	No, PCE intends to negotiate on a deal- specific basis for projects with these attributes.

#	Question	Response
12	Please confirm that the energy sales agreement is a PPA for the physical delivery of power (and not a contract for differences or a financial settlement).	Yes, this is for physical delivery. Please refer to the form PPA on the RFO web site
13	Who is the entity that will be signing the PPA?	Peninsula Clean Energy
14	Is the entity credit rated? If yes, what is the credit rating? If no, is there a plan to be credit rated? If no, what type of credit support can we expect to see in the PPA?	Peninsula Clean Energy does not currently have a credit rating, but we are credit worthy. You can find PCE's budget and financials here: https://www.peninsulacleanenergy.com/res ources/budget-and-finances/.

#	Question	Response
15	Does PCE intend to purchase resource adequacy benefits under any of the contracts, and if so, in what amount and term?	Yes, if a project is capable of offering resource adequacy benefits, this will be included in the procurement. Please refer to the definition of Product in the form PPA. We are not looking to procure stand-alone RA as part of this RFO. If you would like to offer a proposal for stand-alone RA, please email procurement@peninsulacleanenergy.com.
16	For an existing renewable resource in California with a COD of mid-2027 be considered an eligible bid?	Yes, there is no outside date for CODs. You are free to submit an offer with a later COD. It will not disqualify your offer from consideration. However, it will be a factor in the evaluation process, and may affect whether it is selected.

#	Question	Response
17	For PCE's long term need will you consider a COD before 2024? What is the desired COD and term for the long term need?	Yes, the open position tables are to provide data on open positions at different points in time, not to indicate COD timeline preferences. Please refer to the IRP for information on our procurement strategies.
18	How short or long of a PPA are you willing to consider?	PCE is looking to build a diverse portfolio. Our targets for different diversity factors, including term length and size, are outlined in the IRP.
19	The RFO states, "PCE encourages participants to submit offers for products of short-, medium- and long-term lengths from new and existing projects." Is there a particular term length that PCE favors for different project sizes or delivery points?	No, PCE is looking to build a diverse portfolio that includes short, medium and long-term contracts. Our targets for different diversity factors, including term length and size, are outlined in the IRP.

#	Question	Response
20	What is the load profile of the electricity being procured?	Please refer to the Open Position tables in Appendix A of the RFO Instructions.
21	When do you need the electricity?	Please refer to the Open Position tables in Appendix A of the RFO Instructions.
22	Can PCE provide guidance on their open positions for 2022 and 2023?	These are the same as the open position provided for 2021.
23	If we executed a Confidentiality Agreement in the last PCE RFO, do we need to execute another CA?	Only short-listed Participants will need to execute a Confidentiality Agreement. Once notified of short-listing, a Participant will have two weeks to provide the security deposit and other documentation including the Confidentiality Agreement.
24	If more than one email offer file is submitted, will PCE use the latest file submitted as the one for consideration?	Yes, if we notice that the same document was submitted twice, we will look at the later timestamp. However, please only submit final documents. It will be difficult for us to sort through all offers to make sure we are looking at the final document if more than one document is submitted.

#	Question	Response
25	Is the Offer Form strictly for submitting pricing and the other documents required to be emailed?	The Offer Form requests data related to pricing as well as some additional data. We have posted an Offer Form template to the RFO Web site. The information requested on this form should be submitted on the Offer Form and other documents should be submitted as email. Please do not include text in the body of those emails, and follow the document naming convention in the RFO Instructions.
26	The instructions say to submit one Offer Form per Project-size combination. Can different COD's for a Project be submitted under the same Offer Form?	Yes, different COD and pricing combinations can be submitted on one Offer Form. Please refer to the Offer Form template posted to the RFO Web site.
27	Will a respondent be able to download the Offer Form to fill it in then upload for submittal? Alternatively, can you send the Offer Form template?	An Offer Form template has been posted to the RFO Web site. You must submit the Offer Form via the Google Form platform. Once submitted, you will receive an email confirmation with a copy of your responses.

#	Question	Response
28	Will projects that do not yet have a Phase II interconnection study (i.e. projects with only a Phase I interconnection study) be considered?	We have a strong preference for projects with a completed Phase 2 study. This will be a factor in the evaluation process, and may affect whether an offer is selected.
29	Would a project with a completed Phase 1 study for the "Proposed Project" along with Phase 2 study results for a project previously proposed on the same site with the same point of interconnection be eligible?	We have a strong preference for projects with a completed Phase 2 study. This will be a factor in the evaluation process, and may affect whether an offer is selected.
30	The 'Project LMP Data Input' tab of the LMP Generation Form requests 3 years of Day Ahead LMPs. A pnode is only created once a project goes online. If our project is not yet online, should we provide 3 years of LMPs from a nearby pnode?	Yes, please provide LMP data from the closest PNode possible. The form also requests 4 years of LMP data (1/1/2014-12/31/2017)

#	Question	Response
31	Regarding the Generation Profile and LMP Historical Data form, please clarify if the 8760 results ("Project Gen Profile (A)" tab) should capture average annual generation over the life of the contract or Year 1.	Please provide expected generation for Year 1.
32	Regarding the Generation Profile and LMP Historical Data form, please clarify if the monthly-hourly production results ("Project Gen Profile (B)" tab) should be provided for the expected useful life of the project, or the proposed duration of the contract.	These should be provided for the proposed term of the contract.
33	Generation/LMP Excel Form has locked cells in B and C tab.	A new Generation/LMP Excel form has been uploaded (V.2) to the RFO website. Please use the V.2 Form. Please remember to save your files as .xlsm files.

New Q&A

- If you would like to ask a question:
 - Please raise your hand on the GotoWebinar sidebar and the moderator will un-mute you.
 - You also have the option to text written questions to the moderator on the and we will read the question for you and then respond.

Thank you for participating!

All documents including this presentation and Q&A are available at the PCE RFO Web site:

https://www.peninsulacleanenergy.com/our-power/pce-2018-renewables-rfo/

Offers due Friday, February 9, 2018 12:00 pm PPT