

**DOCKETED**

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<b>Submitter Role:</b>	Applicant
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State of California  
 California Energy Commission  
**ELECTRICITY RESOURCE PLANNING FORMS**  
**Administrative Information**



<b>Name of Load Serving Entity ("LSE")</b>	Power and Water Resources Pooling Authority (PWRPA)
<b>Name of Resource Planning Coordinator</b>	Cori Bradley

<b>Persons who prepared Supply Forms</b>	<b>S-1 Requirement</b>	<b>S-2 Supply</b>	<b>S-3 Small POU Hourly Loads</b>	<b>S-5 Bilateral Contracts</b>	<b>Application for Confidentiality</b>
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**ELECTRICITY RESOURCE PLANNING FORMS**  
**CEC S-1 Capacity/Energy Requirement Form**



Power and Water Resources Pooling Authority (PWRPA)

Yellow fills indicate confidentiality is being requested pursuant to Appendix A.

**Bold font cells sum automatically.** Data input by User are in dark green font.

line	Capacity Procurement Requirement (MW)	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030
	<b>PEAK LOAD CALCULATIONS</b>	(â Actual Load â)		(Forecast Load ô)									
1	Forecast Total Peak-Hour 1-in-2 Demand	75	113	113	100	100	100	100	100	100	100	100	100
2a	ESP Demand: Existing Customer Contracts	75	113	113	100	100	100	100	100	100	100	100	100
2b	ESP Demand: New and Renewed Contracts												
2c	ESP Demand in PG&E service area	75	113	113	100	100	100	100	100	100	100	100	100
2d	ESP Demand in SCE service area												
2e	ESP Demand in SDG&E service area												
3	Additional Achievable Energy Efficiency (-)												
4	Demand Response / Interruptible Programs (-)	0	0	(12)	(12)	(12)	(12)	(12)	(12)	(12)	(12)	(12)	(12)
5	Adjusted Demand: End-Use Customers	75	113	101	88	88	88	88	88	88	88	88	88
6	Coincidence Adjustment (-)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)
7	Coincident Peak-Hour Demand	74	112	100	87	87	87	87	87	87	87	87	87
8	Required Planning Reserve Margin	11	17	15	13	13	13	13	13	13	13	13	13
9	Credit for Imports That Carry Reserves (-)				-40	-40	-40	-40	-40	-40	-40	-40	-40
10	Firm Sales Obligations												
11	Firm LSE Procurement Requirement	85	129	115	61	61	61	61	61	61	61	61	61

line	Energy Procurement Requirement (GWh)	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030
	<b>ENERGY DEMAND CALCULATIONS</b>	(â Actual Load â)		(Forecast Load ô)									
12	Forecast Total Energy Demand / Consumption	237	438	540	405	405	405	405	405	405	405	405	405
13a	ESP Demand: Existing Customer Contracts	237	438	540	405	405	405	405	405	405	405	405	405
13b	ESP Demand: New and Renewed Contracts												
13c	ESP Demand in PG&E service area	237	438	540	405	405	405	405	405	405	405	405	405
13d	ESP Demand in SCE service area												
13e	ESP Demand in SDG&E service area												
14	Additional Achievable Energy Efficiency (-)												
15	Demand Response / Interruptible Programs (-)			(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)
16	Adjusted Demand: End-Use Customers	237	438	535	400	400	400	400	400	400	400	400	400
17	Firm Sales Obligations												
18	Firm LSE Procurement Requirement	237	438	535	400	400	400	400	400	400	400	400	400

line	Historic LSE Peak Load:	MW	MW
		Year 2019	Year 2020
19	Annual Peak Load / Actual Metered Deliveries	75.7	113.0
20	Date of Peak Load for Annual Peak Deliveries	6/19/19	6/24/20
21	Hour Ending for Annual Peak Deliveries	9	12
22	Interruptible Load called on during that hour (+)		
23	Self-Generation and DG Adjustments		
24	Adjustments for Major Outages		
25	Adjusted Annual Peak Load	75.7	113.0

Lines Notes

x	
x	



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CAPACITY SUPPLY RESOURCES (MW)		Plant Unit Identif	Plant Unit Identif	Plant Unit Identif	Fuel Type	2019 (Actual Capacity)	2020 (Actual Capacity)	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030
1a	<b>Total Fossil Fuel Supply</b>					0	0	0	0	0	0	0	0	0	0	0	0
1b																	
1c																	
1d																	
2a	<b>Total Nuclear Supply</b>					0	0	0	0	0	0	0	0	0	0	0	0
2b																	
2c																	
3a	<b>Total Hydroelectric Supply</b>					0	0	0	0	0	0	0	0	0	0	0	0
3b	Hydro Supply from Plants 30 MW or more																
3c	Hydro Supply from Plants Less than 30 MW																
4a	<b>Total Utility-Controlled Renewable Supply</b>					0	0	0	0	0	0	0	0	0	0	0	0
4b																	
4c																	
4d																	
5a	<b>Total Qualifying Facility (QF) Contract Supply</b>					8	8	8	8	8	8	8	8	8	8	8	8
5b	Biofuels																
5c	Geothermal																
6d	Small Hydro/Large Hydro - WAPA																
5e	Solar																
5f	Wind																
5g	Natural Gas : Lodi Energy Center	G1009	57978	LODIEC 2	Natural Gas	8	8	8	8	8	8	8	8	8	8	8	8
5h	Other - WAPA Hydro (small/large)																
6a	<b>Total Renewable Contract Supply</b>					21	21	24	50	50	50	50	50	50	50	50	50
6b	Solar: Astoria	S0537	59977	ASTO	Solar	10	10	10	10	10	10	10	10	10	10	10	10
6c	Small Hydro: Warm Springs	H0485	54261	GYSRVL 7	Small Hydro	0	0	3	3	3	3	3	3	3	3	3	3
6d	Solar: Whitney Point	S0564	60619	WHITNY 6	Solar	11	11	11	11	11	11	11	11	11	11	11	11
6e	Solar: State					0	0	0	26	26	26	26	26	26	26	26	26
6e	Renewable DG Supply																
7a	<b>Total Other Bilateral Contract Supply</b>					10	15	10	10	10	10	10	10	10	10	10	10
7b																	
7c	System: Bilateral Contract (Supplier Various)				Other	10	15	10	10	10	10	10	10	10	10	10	10
7d																	
7e																	
7f	Non-Renewable DG Supply																
7g	<b>Total Exceptional Contracts</b>					0	0	0	0	0	0	0	0	0	0	0	0
7h																	
8	Short-Term and Spot Market Purchases (and Sales)																
<b>CAPACITY/ENERGY BALANCE SUMMARY</b>																	
9	<b>Total: Existing and Planned Supply</b>					39	44	42	68	68	68	68	68	68	68	68	68
10	<b>Firm LSE Procurement Requirement</b>					85	129	115	61	61	61	61	61	61	61	61	61
11	<b>Net Surplus (or Need)</b>					(46)	(85)	(73)	7	7	7	7	7	7	7	7	7
12	Generic Renewable Supply																
13	Generic Non-Renewable Resources																
14	Specified Planning Reserve Margin																

Lines	Notes
x	
x	

ENERGY												
2019 (Actual Supply)	2020 (Actual Supply)	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	
-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	
252	219	185	218	218	218	218	218	218	218	218	218	
32	18	25	25	25	25	25	25	25	25	25	25	
220	201	160	194	194	194	194	194	194	194	194	194	
67	68	79	146	145	144	143	141	140	139	138	137	
29	29	29	28	28	27	27	26	26	25	25	24	
-	-	22	22	22	22	22	22	22	22	22	22	
29	28	28	27	27	26	26	25	25	24	24	23	
-	-	-	68	68	68	68	68	68	68	68	68	
26	79	20	30	30	30	30	30	30	30	30	30	
26	79	20	30	30	30	30	30	30	30	30	30	
-	-	-	-	-	-	-	-	-	-	-	-	
335	355	283	394	393	392	391	390	389	388	387	386	
237	438	535	400	400	400	400	400	400	400	400	400	
97	(83)	-	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	

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**ELECTRICITY RESOURCE PLANNING FORMS**  
**CEC Form S-3: 2020 SMALL POU HOURLY LOADS**



Power and Water Resources Pooling Authority (PWRPA)  
 For Publicly Owned LSEs with Annual Peak Loads under 200 MW not submitting demand forms  
 If load is reported for more than one LSE, load for each LSE should be reported in a separate column  
 Report actual hourly demand in calendar year 2020, in megawatts, for each hour of each day.  
 Add rows to report all 8,760 hours in 2020.  
 Begin with the hour that ended at 1 a.m. on January 1, 2020.  
 Show the load measured at the balancing authority load take-out point (or points).  
 Add columns for any additional metered take-out points.  
 The time basis should be Pacific Standard Time (PST) throughout the entire year.  
 Adjustments for spring and fall daylight saving time have already been included in the form below.

Total MWh	438,034
Maximum	113
Average	50
Minimum	6

Date (PST)	Hour Ending (PST)	Recorded Demand at Take Out (MW)
1/1/2020	1	9.20
1/1/2020	2	8.52
1/1/2020	3	8.47
1/1/2020	4	8.37
1/1/2020	5	8.52
1/1/2020	6	8.25
1/1/2020	7	8.60
1/1/2020	8	8.49
1/1/2020	9	7.95
1/1/2020	10	7.92
1/1/2020	11	7.85
1/1/2020	12	7.59
1/1/2020	13	7.44
1/1/2020	14	7.53
1/1/2020	15	7.52
1/1/2020	16	7.65
1/1/2020	17	7.79
1/1/2020	18	7.92
1/1/2020	19	7.66
1/1/2020	20	7.89
1/1/2020	21	8.05
1/1/2020	22	8.12
1/1/2020	23	8.20
1/1/2020	24	8.61
1/2/2020	1	8.75
1/2/2020	2	8.26
1/2/2020	3	8.11
1/2/2020	4	7.77
1/2/2020	5	7.97

State of California  
 California Energy Commission  
**ELECTRICITY RESOURCE PLANNING FORMS**  
**CEC Form S-5: Bilateral Contracts Table**  
 Do not delete any rows or columns or change headers.  
 Power and Water Resources Pooling Authority (PWRPA)



Revised 3/2021.

Yellow fills indicate confidentiality is being requested pursuant to Appendix A.

S-2 line	Contract Name:	Fuels	Supplier / Seller:	Unit Contingent:
6b	Solar: Astoria	Solar PV	Recurrent Energy	Unit Contingent:
6c	Small Hydro: Warm Springs	Small Hydroelectric (<30)	Sonoma County	Unit Contingent
6d	Solar: Whitney Point	Solar PV	NextEra	Unit Contingent
6e	Solar: Slate	Solar PV	Recurrent Energy	Unit Contingent
5g	Natural Gas : Lodi Energy Center	Natural Gas	NCPA	Unit Contingent
7c	System: Bilateral Contract (Supplier Various)		Various Markters; Shell	LD Contract
5h	Other - WAPA Hydro (small/large)	Large Hydroelectric (>30)	WAPA	
7e	0			
7h	0			

Generating Unit(s) Specified	Supply Resources(s) Balancing Area	Supply Resouce(s) Delivery Zone/Point	Contract Start Date	Contract Expiration Date	Capacity (MW) Under Contract:	Contract / Agreement Products
ASTORA_2_SOLAR2	CAISO	POD_ASTORA_2_SOLAR2-APND	1/17/2017	1/17/2037	10	PPA
GYSRVL_7_WSPRNG	CAISO	POD_GYSRVL_7_WSPRNG-APND	11/3/2009	11/3/2019	2.79	PPA
WHITNY_6_SOLAR	CAISO	SP15	4/17/2017	4/17/2037	11	PPA
	CAISO	PGE	1/1/2022	12/31/2042	26	PPA
LODIEC_2_PL1X2	CAISO	LODIEC_2_PL1X2-APND	11/25/2012	11/25/2032	8	PSA
none	CAISO	NP15			varies	Fixed
Various	BANC	Import at Tracy	1/1/2005	12/31/2024	percent output	