DOCKETED	
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Project Title:	Electricity Forecast
TN #:	246131
Document Title:	PWRPA IEPR 2022 PDF
Description:	N/A
Filer:	Tracy Silva
Organization:	Power and Water Resources Pooling Authority
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State of California
California Energy Commission
ELECTRICITY RESOURCE PLANNING FORMS
Administrative Information

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

Persons who prepared Supply Forms	**S-1 Requirement**	**S-2 Supply**	**S-2 Addendum**	**S-3 Small POU Hourly Loads**	**S-5 Bilateral Contracts**	**Application for Confidentiality**
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Title:	Operations Manager	Operations Manager	Operations Manager	Operations Manager	Operations Manager	
E-mail:	cb@pwrpa.org	cb@pwrpa.org	cb@pwrpa.org	cb@pwrpa.org	cb@pwrpa.org	
Telephone:	916-405-8923	916-405-8923	916-405-8923	916-405-8923	916-405-8923	
Address:	3100 Zinfandel Drive	3100 Zinfandel Drive	3100 Zinfandel Drive	3100 Zinfandel Drive	3100 Zinfandel Drive	
Address 2:	Ste. 300	Ste. 300	Ste. 300	Ste. 300	Ste. 300	
City:	Rancho Cordova	Rancho Cordova	Rancho Cordova	Rancho Cordova	Rancho Cordova	
State:	CA	CA	CA	CA	CA	
Zip:	95670	95670	95670	95670	95670	
Date Completed:	8/26/2022	8/26/2022	8/26/2022	8/26/2022	8/26/2022	
Date Updated by LSE:						
Back-up / Additional Contact Persons for Questions about these Forms (Optional):						
Name:	Tracy Silva	Tracy Silva	Tracy Silva	Tracy Silva	Tracy Silva	
Title:	Staff Analyst	Staff Analyst	Staff Analyst	Staff Analyst	Staff Analyst	
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Address:	3100 Zinfandel Drive	3100 Zinfandel Drive	3100 Zinfandel Drive	3100 Zinfandel Drive	3100 Zinfandel Drive	
Address 2:	Ste. 300	Ste. 300	Ste. 300	Ste. 300	Ste. 300	
City:	Rancho Cordova	Rancho Cordova	Rancho Cordova	Rancho Cordova	Rancho Cordova	
State:	CA	CA	CA	CA	CA	
Zip:	95670	95670	95670	95670	95670	

State of California
California Energy Commission
ELECTRICITY RESOURCE PLANNING FORMS
CEC S-1 Capacity/Energy Requirement Form

Power and 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 Procurment Requirement (MW)**	**2020**	**2021**	**2022**	**2023**	**2024**	**2025**	**2026**	**2027**	**2028**	**2029**	**2030**	**2031**
	PEAK LOAD CALCULATIONS	(Actual Load)	(Actual Load)	(Forecast Load ->)									
1	Forecast Total Peak-Hour 1-in-2 Demand	113	114	114	110	105	100	100	100	95	95	95	95
2a	ESP Demand: Existing Customer Contracts	113	114	114	110	105	100	100	100	95	95	95	95
2b	ESP Demand: New and Renewed Contracts												
2c	ESP Demand in PG&E service area	113	114	114	110	105	100	100	100	95	95	95	95
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	(12)	(10)	(15)	(15)	(20)	(20)	(25)	(25)	(30)	(30)	(30)
5	Adjusted Demand: End-Use Customers	**113**	**102**	**104**	**95**	**90**	**80**	**80**	**75**	**70**	**65**	**65**	**65**
6	Coincidence Adjustment (-)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)
7	Coincident Peak-Hour Demand	**103**	**92**	**94**	**85**	**80**	**70**	**70**	**65**	**60**	**55**	**55**	**55**
8	Required Planning Reserve Margin	**15**	**14**	**14**	**13**	**14**	**12**	**12**	**11**	**10**	**9**	**9**	**9**
9	Credit for Imports That Carry Reserves (-)	-6	-6	-6	-6	-6	-6	-6	-6	-6	-6	-6	-6
10	Firm Sales Obligations												
11	Firm LSE Procurement Requirement	**113**	**100**	**102**	**92**	**88**	**76**	**76**	**70**	**64**	**59**	**59**	**59**

line	**Energy Procurement Requirement (GWh)**												
	ENERGY DEMAND CALCULATIONS	(Actual Load)	(Actual Load)	(Forecast Load ->)									
12	Forecast Total Energy Demand / Consumption	438	512	486	450	300	450	500	450	300	450	500	480
13a	ESP Demand: Existing Customer Contracts	438	512	486	450	300	450	500	450	300	450	500	480
13b	ESP Demand: New and Renewed Contracts												
13c	ESP Demand in PG&E service area												
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 (-)	0	(5)	(4)	(7)	(7)	(9)	(9)	(11)	(11)	(13)	(13)	(13)
16	Adjusted Demand: End-Use Customers	**438**	**507**	**482**	**443**	**293**	**441**	**491**	**439**	**289**	**437**	**487**	**467**
17	Firm Sales Obligations												
18	Firm LSE Procurement Requirement	**438**	**507**	**482**	**443**	**293**	**441**	**491**	**439**	**289**	**437**	**487**	**467**

line	**Historic LSE Peak Load:**	**MW Year 2020**	**MW Year 2021**
19	Annual Peak Load / Actual Metered Deliveries	113.0	114.0
20	Date of Peak Load for Annual Peak Deliveries	6/24/20	6/16/21
21	Hour Ending for Annual Peak Deliveries	12	14
22	Interruptible Load called on during that hour (+)		
23	Self-Generation and DG Adjustments		
24	Adjustments for Major Outages		
25	Adjusted Annual Peak Load	**113.0**	**114.0**

Lines	**Notes**
9	5% of Capacity from WAPA Contract
x	

State of California
California Energy Commission
ELECTRICITY RESOURCE PLANNING FORMS
CEC Form S-2: Capacity/Energy Supply Resources Form
Power and 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.

	CAPACITY SUPPLY RESOURCES (MW)	Plant/Unit Identifier- CEC ID	Plant/Unit Identifier- EIA ID	Plant/Unit Identifier- CAISO ID	Fuel Type	Nameplate Capacity	BA	Latitude	Longitude	Storage Duration Hours	Monthly Data	Incremental Capacity Addition	2020 (Actual Capacity)	2021 (Actual Capacity)	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031
1a	**Total Fossil Fuel Supply**												0	0	0	0	0	0	0	0	0	0	0	0
1b											☐ Check	☐ Check												
1c											☐ Check	☐ Check												
1d											☐ Check	☐ Check												
2a	**Total Nuclear Supply**												0	0	0	0	0	0	0	0	0	0	0	0
2b											☐ Check	☐ Check												
2c											☐ Check	☐ Check												
3a	**Total Hydroelectric Supply**												0	0	0	0	0	0	0	0	0	0	0	0
3b	Hydro Supply from Plants 30 MW or more										☐ Check	☐ Check												
3c	Hydro Supply from Plants Less than 30 MW										☐ Check	☐ Check												
4a	**Total Utility-Controlled Renewable Supply**												0	0	0	0	0	0	0	0	0	0	0	0
4b	HYBRID RESOURCE										☐ Check	☐ Check												
4c	Solar										☐ Check	☐ Check												
4d	Battery										☐ Check	☐ Check												
5a	**Total Qualifying Facility (QF) Contract Supply**												8	8	62	75	75	75	75	75	75	75	75	75
5b	Biofuels										☐ Check	☐ Check												
5c	Geothermal										☐ Check	☐ Check												
5d	Small Hydro: Warm Springs	H0485	54261	GYSRVL_7_WSPI	Small Hydroelectric	2	CAISO				☑ Check	☐ Check	0	0	0	2	2	2	2	2	2	2	2	2
5e	Solar										☐ Check	☐ Check												
5f	Wind										☐ Check	☐ Check												
5g	**Natural Gas: Lodi Energy Center**	G1009	57978	LODIEC_2_PLIX2	Natural Gas		CAISO				☑ Check	☐ Check	8	8	8	8	8	8	8	8	8	8	8	8
5h	**Other: Wapa Large and Small Hydro**	Multiple	Multiple	Multiple	Large Hydroelectric		BANC				☑ Check	☐ Check	0	0	54	65	65	65	65	65	65	65	65	65
6a	**Total Renewable Contract Supply**												5	4	24	24	24	24	24	24	24	24	24	24
6b	**Solar Astoria**	S0537	59977	ASTORA_2_S	Solar PV	10	CAISO				☑ Check	☐ Check	5	4	4	4	4	4	4	4	4	4	4	4
6c	**Solar WP**	S0564	60619	WHITNY_6_SOLA	Solar PV	11	CAISO				☑ Check	☐ Check	0	0	0	0	0	0	0	0	0	0	0	0
6d	**Solar plus Battery: Slate**	64908A		SLATE_2_SLASR	Hybrid	26	CAISO	36.226666	-119.871866	4	☑ Check	☐ Check	0	0	20	20	20	20	20	20	20	20	20	20
6e																								
6e	Renewable DG Supply										☐ Check	☐ Check												
7a	**Total Other Bilateral Contract Supply**												15	10	10	0	0	0	0	0	0	0	0	0
7b											☐ Check	☐ Check												
7c	System: Bilateral Contract (Supplier Various)				Other		CAISO				☐ Check	☐ Check	15	10	10									
7d											☐ Check	☐ Check												
7e											☐ Check	☐ Check												
7g	**Running Total of Unbundled RECs (GWh in Energy Table only)**										☐ Check	☐ Check	0	0	0	0	0	0	0	0	0	0	0	0
7h											☐ Check	☐ Check												
8	Short-Term and Spot Market Purchases (and Sales)																							
											☐ Check	☐ Check												
	CAPACITY/ENERGY BALANCE SUMMARY																							
9	**Total: Existing and Planned Supply**												28	22	96	99	99	99	99	99	99	99	99	99
10	**Firm LSE Procurement Requirement**												113	100	102	92	88	76	76	70	64	59	59	59
11	**Net Surplus (or Need)**												(85)	(78)	(6)	7	11	23	23	29	35	40	40	40
12	Generic Renewable Supply																							
13	Generic Non-Renewable Resources																							
14	Specified Planning Reserve Margin																							

ENERGY SUPPLY RESOURCES (GWh)

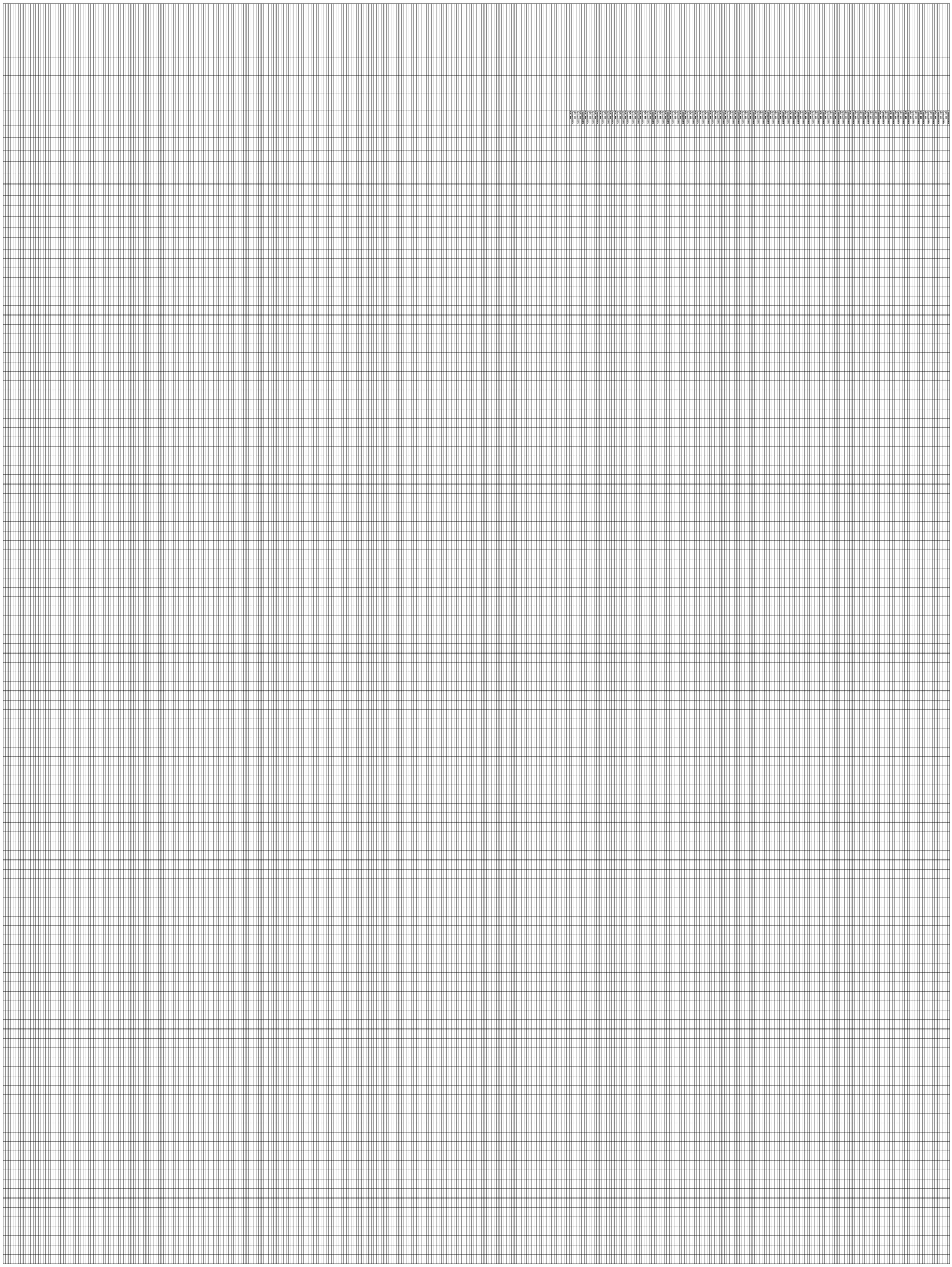
2020 (Actual Supply)	2021 (Actual Supply)	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031
0	0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0	0
219	128	87	217	279.2	234.2	234.2	234.2	279.2	234.2	234.2	234.2
0	0	0	13	13	13	13	13	13	13	13	13
18	46	21	28.8	46.0	46.0	46.0	46.0	46.0	46.0	46.0	46.0
201	124	66	175	220	175	175	175	220	175	175	175
57	61	134	141	138	137	135	134	131	130	128	127
29	31	33	32	32	31	30	30	29	29	28	28
28	30	33	32	32	31	30	30	29	29	28	28
0	0	68	76	75	75	74	74	73	73	72	72
80	60	50	25	0	25	25	25	0	25	25	25
80	60	50	25		25	25	25		25	25	25
0.3	0.35	0.5	1	1	1	1	1	1	1	1	1
	10	10									
356	259	281	383	418	396	394	393	411	389	387	386
438	507	482	443	293	441	491	439	289	437	487	467
-82	-248	-201	-61	124	-45	-97	-46	122	-47	-100	-81

Lines	Notes
x	
x	

State of California
California Energy Commission
CEC Form 5.2: Addendum Monthly FLANNING FORMS
CEC Form 5.2: Addendum Monthly Capacity and Energy Data
Power and Resources Pooling Authority (PNRPA)

Please copy data into below as needed

| Resource Name | PlantCode Identifier CEC ID | PlantCode Identifier EIA ID | PlantCode Identifier CAISO ID | | 2023-1 | 2023-2 | 2023-3 | 2023-4 | 2023-5 | 2023-6 | 2023-7 | 2023-8 | 2023-9 | 2023-10 | 2023-11 | 2023-12 | 2024-1 | 2024-2 | 2024-3 | 2024-4 | 2024-5 | 2024-6 | 2024-7 | 2024-8 | 2024-9 | 2024-10 | 2024-11 | 2024-12 | 2025-1 | 2025-2 | 2025-3 | 2025-4 | 2025-5 | 2025-6 | 2025-7 | 2025-8 | 2025-9 | 2025-10 | 2025-11 | 2025-12 | 2026-1 | 2026-2 | 2026-3 | 2026-4 | 2026-5 | 2026-6 | 2026-7 | 2026-8 | 2026-9 | 2026-10 | 2026-11 | 2026-12 | 2027-1 | 2027-2 | 2027-3 | 2027-4 | 2027-5 | 2027-6 | 2027-7 | 2027-8 | 2027-9 | 2027-10 | 2027-11 | 2027-12 | 2028-1 | 2028-2 | 2028-3 | 2028-4 | 2028-5 | 2028-6 | 2028-7 | 2028-8 | 2028-9 | 2028-10 | 2028-11 | 2028-12 | 2029-1 | 2029-2 | 2029-3 | 2029-4 | 2029-5 | 2029-6 | 2029-7 | 2029-8 | 2029-9 | 2029-10 | 2029-11 | 2029-12 | 2030-1 | 2030-2 | 2030-3 | 2030-4 | 2030-5 | 2030-6 | 2030-7 | 2030-8 | 2030-9 | 2030-10 | 2030-11 | 2030-12 |
|---|---|---



State of California
California Energy Commission
ELECTRICITY RESOURCE PLANNING FORMS
CEC Form S-3: 2021 SMALL POU HOURLY LOADS

Power and 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 2021, in megawatts, for each hour of each day.

Begin with the hour that ended at 1 a.m. on January 1, 2021.
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	514,140
Maximum	114
Average	59
Minimum	6

Date (PST)	Hour Ending (PST)	Recorded Demand at Take Out (MW)
1/1/2021	1	9
1/1/2021	2	9
1/1/2021	3	9
1/1/2021	4	9
1/1/2021	5	9
1/1/2021	6	9
1/1/2021	7	9
1/1/2021	8	9
1/1/2021	9	9
1/1/2021	10	9
1/1/2021	11	9
1/1/2021	12	9
1/1/2021	13	8
1/1/2021	14	9
1/1/2021	15	9
1/1/2021	16	9
1/1/2021	17	8
1/1/2021	18	9
1/1/2021	19	9
1/1/2021	20	8
1/1/2021	21	7
1/1/2021	22	8
1/1/2021	23	8
1/1/2021	24	8
1/2/2021	1	7
1/2/2021	2	7
1/2/2021	3	7
1/2/2021	4	7
1/2/2021	5	7

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 Resources Pooling Authority (PWRPA)

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

S-2 line	Contract Name:	Supplier / Seller:	Unit Contingent:	Generating Unit(s) Specified
6b	Solar Astoria	Recurrent Energy	Unit Contingent:	ASTORA_2_SOLAR2
6c	Solar WP	NextEra	Unit Contingent	WHITNY_6_SOLAR
6d	Solar plus Battery: Slate	Canadian Solar	Unit Contingent	SLATE_2_SLASR5
6e	Small Hydro: Warm Springs	Sonoma County	Unit Contingent	GYSRVL_7_WSPRNG
5g	Natural Gas: Lodi Energy Center	NCPA	Unit Contingent	LODIEC_2_PL1X2
5h	Other: Wapa Large and Small Hydro	WAPA	WAPA	various
7c	System: Bilateral Contract (Supplier Various)	Various Markters; Shell, NextEra, etc.	LD Contract	none

Supply Resoucre(s) Delivery Zone/Point	Contract Start Date	Contract Expiration Date	Capacity (MW) Under Contract:	Contract / Agreement Products
POD_ASTORA_2_SOLAR2-APND	1/17/2017	1/17/2037	10	PPA
NP15	4/17/2017	4/17/2037	11	PPA
Mustang_6_N001	1/1/2022	12/31/2042	26	PPA
POD_GYSRVL_7_WSPRNG-APND	11/3/2009	11/3/2019	2.79	PPA
LODIEC_2_PL1X2-APND	11/25/2012	11/25/2032	8	PSA
Import at Tracy	1/1/2005	12/31/2024	percent output	
NP15			varies	Fixed