

**DOCKETED**

<b>Docket Number:</b>	21-IEPR-02
<b>Project Title:</b>	Electricity Resource Plans
<b>TN #:</b>	240260
<b>Document Title:</b>	City of Roseville - Roseville Electric Utility Comments - City of Roseville - Electric - 2021 Resource Plan
<b>Description:</b>	N/A
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<b>Submitter Role:</b>	Public
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<b>Docketed Date:</b>	11/4/2021

*Comment Received From: City of Roseville - Roseville Electric Utility  
Submitted On: 11/4/2021  
Docket Number: 21-IEPR-02*

**City of Roseville - Electric - 2021 Resource Plan**

2021 Resource Plan from City of Roseville - Roseville Electric Utility

*Additional submitted attachment is included below.*

State of California  
 California Energy Commission  
**ELECTRICITY RESOURCE PLANNING FORMS**  
**Administrative Information**



Name of Load Serving Entity ("LSE")  
 Name of Resource Planning Coordinator

City of Roseville - Electric Utility

**Persons who prepared Supply Forms**

Name:  
 Title:  
 E-mail:  
 Telephone:  
 Address:  
 Address 2:  
 City:  
 State:  
 Zip:  
 Date Completed:  
 Date Updated by LSE:

S-1 Requirement	S-2 Supply	S-3 Small POU Hourly	S-5 Bilateral Contracts	Application for
Joe Pasco	Joe Pasco		Joe Pasco	
Electric Business Analyst	Electric Business Analyst		Electric Business Analyst	
<a href="mailto:jpasco@roseville.ca.us">jpasco@roseville.ca.us</a>	<a href="mailto:jpasco@roseville.ca.us">jpasco@roseville.ca.us</a>		<a href="mailto:jpasco@roseville.ca.us">jpasco@roseville.ca.us</a>	
916-746-1663	916-746-1663		916-746-1663	
2090 Hilltop Cir	2090 Hilltop Cir		2090 Hilltop Cir	
Roseville	Roseville		Roseville	
CA	CA		CA	
95747	95747		95747	

**Back-up / Additional Contact Persons for Questions about these Forms (Optional):**

Name:  
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Roseville				
CA				
95747				

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



City of Roseville - Electric Utility

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>	(↓ Actual Load ↓)		(Forecast Load ⇌)									
1	Forecast Total Peak-Hour 1-in-2 Demand	333	341	344	336	337	338	339	341	343	345	348	351
2a	ESP Demand: Existing Customer Contracts												
2b	ESP Demand: New and Renewed Contracts												
2c	ESP Demand in PG&E service area												
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 (-)	(4)	(4)	(4)	(4)	(4)	(4)	(4)	(4)	(4)	(4)	(4)	(4)
5	Adjusted Demand: End-Use Customers	329	337	340	332	333	334	335	337	339	341	344	347
6	Coincidence Adjustment (-)												
7	Coincident Peak-Hour Demand	329	337	340	332	333	334	335	337	339	341	344	347
8	Required Planning Reserve Margin	49	51	51	50	50	50	50	51	51	51	52	52
9	Credit for Imports That Carry Reserves (-)												
10	Firm Sales Obligations												
11	Firm LSE Procurement Requirement	379	387	391	381	383	384	386	388	390	392	396	399
	<b>ENERGY DEMAND CALCULATIONS</b>	(↓ Actual Load ↓)		(Forecast Load ⇌)									
12	Forecast Total Energy Demand / Consumption	1,183	1,194	1,193	1,167	1,167	1,170	1,170	1,175	1,185	1,200	1,220	1,245
13a	ESP Demand: Existing Customer Contracts												
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 (-)												
16	Adjusted Demand: End-Use Customers	1,183	1,194	1,193	1,167	1,167	1,170	1,170	1,175	1,185	1,200	1,220	1,245
17	Firm Sales Obligations												
18	Firm LSE Procurement Requirement	1,183	1,194	1,193	1,167	1,167	1,170	1,170	1,175	1,185	1,200	1,220	1,245

line	Historic LSE Peak Load:	MW	
		Year 2019	Year 2020
19	Annual Peak Load / Actual Metered Deliveries	333.4	340.8
20	Date of Peak Load for Annual Peak Deliveries	8/15/19	8/18/20
21	Hour Ending for Annual Peak Deliveries	18	17
22	Interruptible Load called on during that hour (+)		
23	Self-Generation and DG Adjustments		
24	Adjustments for Major Outages		
25	Adjusted Annual Peak Load	333.4	340.8

Lines	Notes
3	Energy efficiency is embedded in demand forecast



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 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>					222	216	221	221	221	221	221	221	221	221	221	221
1b	Roseville Energy Park	G0213	56298	REP	Natural Gas	157	153	155	155	155	155	155	155	155	155	155	155
1c	Roseville Combustion Turbines	G0382	7452	RPP2	Natural Gas	46	43	48	48	48	48	48	48	48	48	48	48
1d	NCPA STG	G0381	7449	STRT	Natural Gas	20	20	18	18	18	18	18	18	18	18	18	18
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>					101	106	89	119	119	119	118	118	118	118	118	118
3b	Hydro Supply from Plants 30 MW or more	Various	Various	Various	Large	99	105	84	114	114	114	113	113	113	113	113	113
3c	Hydro Supply from Plants Less than 30 MW	H0356	54554	SPICE	Small	2	1	1	1	1	1	1	1	1	1	1	1
3d		H0263	418	KELLY	Small		2	2	2	2	2	2	2	2	2	2	2
3e		H0484	776	SLYC	Small		2	2	2	2	2	2	2	2	2	2	2
4a	<b>Total Utility-Controlled Renewable Supply</b>					8	11	8	8	8	8	8	8	8	8	8	8
4b	NCPA Geo Plant 1	T0039	7368	NCPA	Geothermal	4	7	4	4	4	4	4	4	4	4	4	4
4c	NCPA Geo Plant 2	T0040	7369	NCPA	Geothermal	4	5	4	4	4	4	4	4	4	4	4	4
4d																	
5a	<b>Total Qualifine Facility (OF) Contract Sumov</b>					0	0	0	0	0	0	0	0	0	0	0	0
5b	Biofuels																
5c	Geothermal																
5d	Small Hydro																
5e	Solar																
5f	Wind																
5g	Natural Gas																
5h	Other																
6a	<b>Total Renewable Contract Supply</b>					1	1	1	1	1	1	1	1	1	1	1	1
6b	Blackwell	S0339	58711	BLCK	Solar PV	0	0	0	0	0	0	0	0	0	0	0	0
6c	Lost Hills	S0340	58712	LHLL	Solar PV	0	0	0	0	0	0	0	0	0	0	0	0
6d	Silicon Valley Power	Various			Wind												
6e	Berndtla Renewables	Various			Wind												
6f	Powerex	Various															
6g	Renewable DG Supply (Roseville Community Solar)				Solar PV	1	1	1	1	1	1	1	1	1	1	1	1
7a	<b>Total Other Bilateral Contract Supply</b>					50	25	0	0	0	0	0	0	0	0	0	0
7b	Bonneville Power Administration:1002637					25											
7c	ConocoPhillips:971338																
7d	ConocoPhillips:1002506																
7e	EDF Trading North America:993134																
7f	EDF Trading North America:993135																
7g	EDF Trading North America:1096105																
7h	Exelon Generation:888193																
7i	Exelon Generation:907988																
7j	Exelon Generation:937632																
7k	Exelon Generation:937633																
7l	Exelon Generation:937634																
7m	Exelon Generation:1113918																
7n	J Aron:1113926																
7o	Macquarie Energy:907986																
7p	Macquarie Energy:971268																
7q	Macquarie Energy:1110294																
7r	Morgan Stanley Cap Group:1025811																
7s	Morgan Stanley Cap Group:1113928																
7t	Portland Gen Electric:105289						25										
7u	Shell Energy North America:105299																
7v	WAPA Sierra Nevada:1028646					25											
7w	Non-Renewable DG Supply																
8	Short-Term and Spot Market Purchases (and Sales)																
<b>CAPACITY/ENERGY BALANCE SUMMARY</b>																	
9	<b>Total Existing and Planned Supply</b>					383	360	319	349	349	349	348	348	348	348	348	348
10	<b>Firm LSE Procurement Requirement</b>					379	387	391	381	383	384	386	388	390	392	396	399
11	<b>Net Surplus (or Need)</b>					4	(27)	(72)	(32)	(33)	(35)	(38)	(40)	(42)	(45)	(48)	(51)
12	Generic Renewable Supply																
13	Generic Non-Renewable Resources																
14	Specified Planning Reserve Margin																

Lines	Notes
6g	Roseville Community Solar Project: Renewable DG supply is netted from demand forecast. The value in here is distribution connected solar (not behind the meter).
3b	Large Hydro is split between WAPA Base Resource (many sources), NCPA Colville, and two plants from our upcoming NCPA South Feather Project

ENERGY SUPPLY RESOURCES (GWh)												
2019 (Actual Supply)	2020 (Actual Supply)	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	
299	323	521	617	588	452	432	429	417	393	377	377	
292	308	497	594	540	438	419	415	404	380	364	364	
2	3	13	18	16	12	12	13	14	13	13	14	
5	13	11	5	2	2	1	0	0	0	0	0	
0	0	0	0	0	0	0	0	0	0	0	0	
308	178	107	240	274	295	295	295	295	295	295	295	
305	176	106	224	257	279	279	279	279	279	279	279	
3	2	1	2	2	2	2	2	2	2	2	2	
			7	7	7	7	7	7	7	7	7	
			7	7	7	7	7	7	7	7	7	
52	58	15	52	54	53	50	53	52	48	50	49	
26	38	8	29	30	29	28	29	28	27	27	27	
26	20	7	24	24	24	23	24	23	22	22	22	
0	0	0	0	0	0	0	0	0	0	0	0	
262	262	337	337	337	337	77	1	1	1	1	1	
0	0	0	0	0	0	0	0	0	0	0	0	
1	1	1	1	1	1	1	0	0	0	0	0	
50	50	50	50	0	0	0	0	0	0	0	0	
135	135	210	210	260	260	0	0	0	0	0	0	
75	75	75	75	75	75	0	0	0	0	0	0	
2	2	2	2	2	2	1	1	1	1	1	1	
753	521	123	184	109	0	0	0	0	0	0	0	
219												
219												
-123												
	123											
		123										
			30									
109												
	55											
	123											
55												
55												
			31	55								

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



City of Roseville - Electric Utility

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	0
Maximum	0
Average	#DIV/0!
Minimum	0

Date (PST)	Hour Ending (PST)	Recorded Demand at Take Out (MW)
1/1/2020	1	
1/1/2020	2	
1/1/2020	3	
1/1/2020	4	
1/1/2020	5	
1/1/2020	6	
1/1/2020	7	
1/1/2020	8	
1/1/2020	9	
1/1/2020	10	
1/1/2020	11	
1/1/2020	12	
1/1/2020	13	
1/1/2020	14	
1/1/2020	15	
1/1/2020	16	
1/1/2020	17	
1/1/2020	18	
1/1/2020	19	
1/1/2020	20	
1/1/2020	21	
1/1/2020	22	
1/1/2020	23	
1/1/2020	24	
1/2/2020	1	
1/2/2020	2	
1/2/2020	3	
1/2/2020	4	
1/2/2020	5	

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.  
 City of Roseville - Electric Utility



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S-2 line	Contract Name:	Fuels	Supplier / Seller:	Unit Contingent:	Generating Unit(s) Specified	Supply Resource(s) Balancing Area	Supply Resource(s) Delivery Zone/Point	Contract Start Date	Contract Expiration Date	Capacity (MW) Under Contract:	Contract / Agreement Products
8b	Blackwell	Solar PV	Blackwell Solar, LLC	Yes	BLCKWL 6 SOLAR1	CAISO	BLCKWL 6 SOLAR1	4/10/2015	12/31/2025	1MW	RECS
8c	Leas Hills	Solar PV	Leas Hills Solar, LLC	Yes	LHILLS 6 SOLAR1	CAISO	LHILLS 6 SOLAR1	4/10/2015	12/31/2025	1MW	RECS
6d	Silicon Valley Power		Silicon Valley Power					10/1/2012	12/31/2022		RECS
6e	Iberdrola Renewables		Avangrid					1/1/2014	12/31/2024		RECS
6f	Powerecs		Powerecs					1/1/2016	12/31/2025		RECS
7b	Bonzeville Power Administration:1002637	Electricity	Bonzeville Power Administration		Bonzeville Power Administration (Asset Controlling Supplier)	COB				25	
7c	ConocoPhillips:971338	Electricity	ConocoPhillips			NP15				25	
7d	ConocoPhillips:1002506	Electricity	ConocoPhillips			NP15				25	
7e	EDF Trading North America:993134	Electricity	EDF Trading North America			NP15				25	
7f	EDF Trading North America:993135	Electricity	EDF Trading North America			NP15				25	
7g	EDF Trading North America:1096105	Electricity	EDF Trading North America			NP15				25	
7h	Exelon Generation:888193	Electricity	Exelon Generation			NP15				25	