

DOCKETED

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2022 POWER SOURCE DISCLOSURE ANNUAL REPORT For the Year Ending December 31, 2022

Retail suppliers are required to use the posted template and are not allowed to make edits to this format. Please complete all requested information.

GENERAL INSTRUCTIONS

RETAIL SUPPLIER NAME	
	Calpine Energy Solutions, LLC
ELECTRICITY PORTFOLIO NAME	
	CA Power Mix
CONTACT INFORMATION	
NAME	Greg Bass
TITLE	Regulatory Director
MAILING ADDRESS	401 West A St., Suite 500
CITY, STATE, ZIP	San Diego, CA 92101
PHONE	619-684-8199
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WEBSITE URL FOR PCL POSTING	calpinesolutions.com

Submit the Annual Report and signed Attestation in PDF format with the Excel version of the Annual Report to PSDprogram@energy.ca.gov. Remember to complete the Retail Supplier Name, Electricity Portfolio Name, and contact information above, and submit separate reports and attestations for each additional portfolio if multiple were offered in the previous year.

NOTE: Information submitted in this report is not automatically held confidential. If your company wishes the information submitted to be considered confidential an authorized representative must submit an application for confidential designation (CEC-13), which can be found on the California Energy Commissions's website at <https://www.energy.ca.gov/about/divisions-and-offices/chief-counsels-office>.

If you have questions, contact Power Source Disclosure (PSD) staff at PSDprogram@energy.ca.gov or (916) 639-0573.

**2022 POWER SOURCE DISCLOSURE ANNUAL REPORT
SCHEDULE 1: PROCUREMENTS AND RETAIL SALES
For the Year Ending December 31, 2022
Calpine Energy Solutions, LLC
CA Power Mix**

Instructions: Enter information about power procurements underlying this electricity portfolio for which your company is filing the Annual Report. Insert additional rows as needed. All fields in white should be filled out. Fields in grey auto-populate as needed and should not be filled out. For EIA IDs for unspecified power or specified system mixes from asset-controlling suppliers, enter "Unspecified Power", "BPA", or "Tacoma Power" as applicable. For specified procurements of ACS power, use the ACS Procurement Calculator to calculate the resource breakdown comprising the ACS system mix. Procurements of unspecified power must not be entered as line items below - unspecified power will be calculated automatically in cell N9. Unbundled RECs must not be entered on Schedule 1; these products must be entered on Schedule 2. At the bottom portion of the schedule, provide the other electricity end-uses that are not retail sales including, but not limited to transmission and distribution losses or municipal street lighting. Amounts should be in megawatt-hours.

Retail Sales (MWh)	
Net Specified Procurement (MWh)	1,412,909
Unspecified Power (MWh)	
Procurement to be adjusted	-
Net Specified Natural Gas	-
Net Specified Coal & Other Fossil Fuels	-
Net Specified Nuclear, Large Hydro, Renewables, and ACS Power	1,412,909
GHG Emissions (excludes grandfathered emissions)	1,856,964
GHG Emissions Intensity (in MT CO ₂ e/MWh)	0.3377

DIRECTLY DELIVERED RENEWABLES

Facility Name	Fuel Type	State or Province	WREGIS ID	RPS ID	N/A	EIA ID	Gross MWh Procured	MWh Resold	Net MWh Procured	Adjusted Net MWh Procured	GHG Emissions Factor (in MT CO ₂ e/MWh)	GHG Emissions (in MT CO ₂ e)	N/A
Arlington Energy Center III, LLC - Arlington III	Solar	CA	W13876	64745A		57680	123767	-	123,767	123,767	-	-	
Blythe Solar 110, LLC - BLY110-B01 Block 1	Solar	CA	W4880	80878A		80093	110153	-	110,153	110,153	-	-	
Blythe Solar 110, LLC - BLY110-B02 Block 02	Solar	CA	W4953	80878A		80093	104483	-	104,483	104,483	-	-	
Blythe Solar 110, LLC - BLY110-B03 Block 03	Solar	CA	W4954	80878A		80093	82346	-	82,346	82,346	-	-	
Calabasas Gas-to-Energy Facility - CGTEF	Biomass & biowaste	CA	W1378	80886A		57163	28841	-	28,841	28,841	0.0043	122	
Geysers Power Plant - Calistoga Power Plant	Geothermal	CA	W486	80117A		50088	2763	-	2,763	2,763	0.0368	101	
Geysers Power Plant - Calpine Geothermal Unit 11	Geothermal	CA	W119	80025A		286	2737	-	2,737	2,737	0.0368	100	
Geysers Power Plant - Calpine Geothermal Unit 12	Geothermal	CA	W120	80004A		286	4471	-	4,471	4,471	0.0368	164	
Geysers Power Plant - Calpine Geothermal Unit 13	Geothermal	CA	W121	80005A		286	8566	-	8,566	8,566	0.0368	314	
Geysers Power Plant - Calpine Geothermal Unit 14	Geothermal	CA	W122	80028A		286	14548	-	14,548	14,548	0.0368	533	
Geysers Power Plant - Calpine Geothermal Unit 16	Geothermal	CA	W123	80006A		286	27114	-	27,114	27,114	0.0368	963	
Geysers Power Plant - Calpine Geothermal Unit 17	Geothermal	CA	W124	80007A		286	44617	-	44,617	44,617	0.0368	1,634	
Geysers Power Plant - Calpine Geothermal Unit 18	Geothermal	CA	W125	80008A		286	13250	-	13,250	13,250	0.0368	485	
Geysers Power Plant - Calpine Geothermal Unit 20	Geothermal	CA	W126	80009A		286	6222	-	6,222	6,222	0.0368	228	
Geysers Power Plant - Sonoma/Calpine Geyser	Geothermal	CA	W127	80010A		510	3552	-	3,552	3,552	0.0368	130	
Golden Hills A - Golden Hills A	Wind	CA	W4800	82804A		80049	124982	-	124,982	124,982	-	-	
Lake Mathews - MWD Lake Mathews	Eligible hydro	CA	W5510	80545A		6644	828	-	828	828	-	-	
MM West Covina - MM West Covina 2	Biomass & biowaste	CA	W442	80478A		54015	18611	-	16,611	16,611	0.0050	82	
MM West Covina - MM West Covina, LLC	Biomass & biowaste	CA	W440	80478A		54015	23054	-	23,054	23,054	0.0050	114	
Mohave County Wind Farm LLC - White Hills	Wind	AZ	W10999	84321A		63114	139394	-	139,394	139,394	-	-	
Red Mountain - MWD Red Mountain	Eligible hydro	CA	W473	80625A		484	403	-	403	403	-	-	
San Dimas - MWD San Dimas	Eligible hydro	CA	W5515	80547A		6646	4034	-	4,034	4,034	-	-	
Sanborn Solar 1A - Sub Project S1 - Edwards Sanborn S1	Solar	CA	W12674	84741A		84879	102395	-	102,395	102,395	-	-	
Total Energy Facility - TEF - GEN 1	Biomass & biowaste	CA	W886	80633A		10091	1272	-	1,272	1,272	0.0563	72	
Total Energy Facility - TEF - GEN 4	Biomass & biowaste	CA	W3412	80633A		10091	1186	-	1,186	1,186	0.0563	67	
Total Energy Facility - TEF - GEN2	Biomass & biowaste	CA	W887	80633A		10091	1272	-	1,272	1,272	0.0563	72	
Total Energy Facility - TEF - GEN3	Biomass & biowaste	CA	W888	80633A		10091	1272	-	1,272	1,272	0.0563	72	
Yorba Linda - MWD Yorba Linda	Eligible hydro	CA	W5516	80548A		6647	6247	-	6,247	6,247	-	-	
											#N/A		
											#N/A		

FIRMED-AND-SHAPED IMPORTS

Facility Name	Fuel Type	State or Province	WREGIS ID	RPS ID	EIA ID of REC Source	EIA ID of Substitute Power	Gross MWh Procured	MWh Resold	Net MWh Procured	Adjusted Net MWh Procured	GHG Emissions Factor (in MT CO ₂ e/MWh)	GHG Emissions (in MT CO ₂ e)	Eligible for Grandfathered Emissions?
Limon Wind - Limon Wind I	Wind	CO	W3157	82246A	58126	Unspecified	105,053	-	105,053	105,053	0.4280	44,863	No
Limon Wind II - Limon Wind II, LLC	Wind	CO	W3158	82246A	58127	Unspecified	94,947	-	94,947	94,947	0.4280	40,637	No
Vansycle II - Vansycle II	Wind	OR	W1458	80944A	55989	Unspecified	39,008	-	39,008	39,008	0.4280	16,665	No
											#N/A		
											#N/A		

SPECIFIED NON-RENEWABLE PROCUREMENTS

Facility Name	Fuel Type	State or Province	N/A	N/A	N/A	EIA ID	Gross MWh Procured	MWh Resold	Net MWh Procured	Adjusted Net MWh Procured	GHG Emissions Factor (in MT CO ₂ e/MWh)	GHG Emissions (in MT CO ₂ e)	N/A
Big Creek No. 3	Large hydro	CA				319	84,796	-	84,796	84,796	-	-	
Balch #1 PH	Large hydro	CA				217	703	-	703	703	-	-	
Balch #2 PH	Large hydro	CA				218	2,458	-	2,458	2,458	-	-	
Belden	Large hydro	CA				219	1,885	-	1,885	1,885	-	-	
Bucks Creek	Large hydro	CA				220	746	-	746	746	-	-	
Butt Valley	Large hydro	CA				221	807	-	807	807	-	-	
Caribou 1	Large hydro	CA				222	621	-	621	621	-	-	

2022 POWER SOURCE DISCLOSURE ANNUAL REPORT
SCHEDULE 3: POWER CONTENT LABEL DATA
For the Year Ending December 31, 2022
Calpine Energy Solutions, LLC
CA Power Mix

Instructions: No data input is needed on this schedule. Retail suppliers should use these auto-populated calculations to fill out their Power Content Labels.

	Adjusted Net Procured (MWh)	Percent of Total Retail Sales
Renewable Procurements	1,239,168	
Biomass & Biowaste	73,308	
Geothermal	127,840	
Eligible Hydroelectric	11,512	
Solar	523,144	
Wind	503,364	
Coal	-	0.0%
Large Hydroelectric	142,970	
Natural gas	-	0.0%
Nuclear	-	0.0%
Other	30,771	
Unspecified Power		
Total		100.0%

Total Retail Sales (MWh) 744

GHG Emissions Intensity (converted to lbs CO₂e/MWh) 744

Percentage of Retail Sales Covered by Retired Unbundled RECs 2.0%

**2022 POWER SOURCE DISCLOSURE ANNUAL REPORT
ATTESTATION FORM**
For the Year Ending December 31, 2022
Calpine Energy Solutions, LLC
CA Power Mix

I, Greg Bass, Regulatory Director,
declare under penalty of perjury, that the information provided in this report is true and
correct and that I, as an authorized agent of Calpine Energy Solutions, LLC, have authority
to submit this report on the retail supplier's behalf. I further declare that all of the
electricity claimed as specified purchases as shown in this report was sold once and only
once to retail customers.

Name: Greg Bass

Representing (Retail Supplier): Calpine Energy Solutions, LLC

Signature: _____

Dated: 06/01/2023

Executed at: San Diego, CA