

DOCKETED

Docket Number:	22-PSDP-01
Project Title:	Power Source Disclosure Program - 2021 Reporting
TN #:	243387
Document Title:	2021 Calpine Solutions PSD Public
Description:	N/A
Filer:	Bryan White
Organization:	Calpine Energy Solutions, LLC
Submitter Role:	Applicant
Submission Date:	6/1/2022 3:13:57 PM
Docketed Date:	6/1/2022

2021 POWER SOURCE DISCLOSURE ANNUAL REPORT For the Year Ending December 31, 2021

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 Street, Suite 500
CITY, STATE, ZIP	San Diego, CA 92101
PHONE	619-684-8199
EMAIL	greg.bass@calpinesolutions.com
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) 805-7439.

2021 POWER SOURCE DISCLOSURE ANNUAL REPORT
SCHEDULE 1: PROCUREMENTS AND RETAIL SALES
 For the Year Ending December 31, 2021
 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)	1,370,043
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	1,370,043
GHG Emissions (excludes grandfathered emissions)	1,458,501
GHG Emissions Intensity (in MT CO ₂ e/MWh)	0.3430

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
Altwind 1 - Altwind 1	Wind	CA	W516	60403A		P1	15	-	15	15	-	-	
Altwind 2 - Altwind 2	Wind	CA	W514	60402A		P2	1,102	-	1,102	1,102	-	-	
Altwind 3 - Altwind 3	Wind	CA	W749	60402A		P3	337	-	337	337	-	-	
Blythe Solar 110, LLC - BLY110-B01 Block 1	Solar	CA	W4880	60878A		60093	111,679	-	111,679	111,679	-	-	
Blythe Solar 110, LLC - BLY110-B02 Block 02	Solar	CA	W4953	60878A		60093	105,932	-	105,932	105,932	-	-	
Blythe Solar 110, LLC - BLY110-B03 Block 03	Solar	CA	W4954	60878A		60093	83,485	-	83,485	83,485	-	-	
Calabasas Gas-to-Energy Facility - CGTEF	Biomass & biowa	CA	W1376	60866A		57163	30,457	-	30,457	30,457	0.0042	128	
Cameron Ridge, LLC (III) - Cameron Ridge LLC	Wind	CA	W407	60392A		10586	18,852	-	18,852	18,852	-	-	
Desert Winds I - Desert Winds I	Wind	CA	W521	60397A		P4	7,002	-	7,002	7,002	-	-	
Desert Winds II Pwr Purch Trst - Desert Winds II	Wind	CA	W522	60422A		P5	17,135	-	17,135	17,135	-	-	
Desert Winds III - Desert Winds III	Wind	CA	W523	60423A		P6	10,923	-	10,923	10,923	-	-	
Geysers Power Plant - Calistoga Power Plant	Geothermal	CA	W486	60117A		50066	25,000	-	25,000	25,000	0.0374	936	
Golden Hills A - Golden Hills A	Wind	CA	W4800	62804A		60049	133,437	-	133,437	133,437	-	-	
Mohave County Wind Farm LLC - White Hills	Wind	AZ	W10999	64321A		63114	146,410	-	146,410	146,410	-	-	
Murphys - Murphys Powerhouse	Eligible hydro	CA	W245	60521A		261	9,038	-	9,038	9,038	-	-	
Oak Creek Wind Power, LLC - Oak Creek Wind	Wind	CA	W509	60429A		50754	8,817	-	8,817	8,817	-	-	
RE Astoria 2 - Astoria 2	Solar	CA	W4931	62691A		59977	27,464	-	27,464	27,464	-	-	
Ridgetop Energy, LLC - Ridgetop Energy, LLC (I)	Wind	CA	W406	60375A		10597	16,245	-	16,245	16,245	-	-	
Ridgetop Energy, LLC (II) - Ridgetop Energy, LL	Wind	CA	W408	60407A		54931	11,039	-	11,039	11,039	-	-	
San Geronio Altwind - San Geronio Altwind	Wind	CA	W4960	60402A		50281	972	-	972	972	-	-	
San Geronio East - San Geronio East	Wind	CA	W4764	63228A		50690	4,833	-	4,833	4,833	-	-	
Terra-Gen Mojave Wind Farms, LLC - Morwind	Wind	CA	W498	60380A		50821	12,728	-	12,728	12,728	-	-	
Total Energy Facility - TEF - GEN 1	Biomass & biowa	CA	W866	60633A		10091	2,825	-	2,825	2,825	0.0600	169	
Total Energy Facility - TEF - GEN 4	Biomass & biowa	CA	W3412	60633A		10091	2,484	-	2,484	2,484	0.0600	149	
Total Energy Facility - TEF - GEN2	Biomass & biowa	CA	W867	60633A		10091	2,825	-	2,825	2,825	0.0600	169	
Total Energy Facility - TEF - GEN3	Biomass & biowa	CA	W868	60633A		10091	2,825	-	2,825	2,825	0.0600	169	
											#N/A		
											#N/A		
											#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?
Biglow Canyon Wind Farm - Biglow Canyon 3	Wind	OR	W2588	63056A	56485	Unspecified	37,682	-	37,682	37,682	0.4280	16,128	No
Biglow Canyon Wind Farm - Biglow Phase 2	Wind	OR	W1268	63055A	56485	Unspecified	30,576	-	30,576	30,576	0.4280	13,087	No
Clearwater Paper Corporation - #3 turbine gener	Biomass & biowa	ID	W128	60533A	56356	Unspecified	1,430	-	1,430	1,430	0.4280	612	No
Clearwater Paper Corporation - #4 turbine gener	Biomass & biowa	ID	W129	60533A	56356	Unspecified	4,741	-	4,741	4,741	0.4280	2,029	No
Elkhorn Valley Wind Farm - Elkhorn Valley Wind	Wind	OR	W186	61034A	56623	Unspecified	25,000	-	25,000	25,000	0.4280	10,700	No
Harvest Wind - Harvest Wind	Wind	WA	W1306	60857A	57152	Unspecified	11,543	-	11,543	11,543	0.4280	4,940	No
Kettle Falls Woodwaste Plant - Kettle Falls Wood	Biomass & biowa	WA	W130	60495A	550	Unspecified	2,894	-	2,894	2,894	0.4280	1,239	No
Kittitas Valley Wind Farm - Sagebrush Power Pa	Wind	WA	W1876	60939A	56858	Unspecified	26,511	-	26,511	26,511	0.4280	11,347	No
Klondike III - Klondike Wind Power III LLC	Wind	OR	W237	60602A	56468	Unspecified	1,296	-	1,296	1,296	0.4280	555	No
Limon Wind - Limon Wind I	Wind	CO	W3157	62246A	58126	Unspecified	4,378	-	4,378	4,378	0.4280	1,874	No

2021 POWER SOURCE DISCLOSURE ANNUAL REPORT
SCHEDULE 3: POWER CONTENT LABEL DATA
For the Year Ending December 31, 2021
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	1,315,227	
Biomass & Biowaste	50,481	
Geothermal	54,438	
Eligible Hydroelectric	15,823	
Solar	329,296	
Wind	865,189	
Coal	-	0.0%
Large Hydroelectric	54,816	
Natural gas	-	0.0%
Nuclear	-	0.0%
Other	-	0.0%
Unspecified Power		
Total Retail Sales (MWh)		
GHG Emissions Intensity (converted to lbs CO₂e/MWh)		756
Percentage of Retail Sales Covered by Retired Unbundled RECs		2.5%

**2021 POWER SOURCE DISCLOSURE ANNUAL REPORT
ATTESTATION FORM**

For the Year Ending December 31, 2021

Calpine Energy Solutions, LLC

CA Power Mix

I, Greg Bass,
Regulatory Director, declare under penalty of perjury, that the statements contained in this report including Schedules 1, 2, and 3 are true and correct and that I, as an authorized agent of Calpine Energy Solutions, LLC, have authority to submit this report on the company's behalf. I further declare that the megawatt-hours claimed as specified purchases as shown in these Schedules were, to the best of my knowledge, sold once and only once to retail customers.

Name: Greg Bass

Representing (Retail Supplier): Calpine Energy Solutions, LLC

Signature: _____

Dated: June 1, 2022

Executed at: San Diego, California