DOCKETED	
Docket Number:	21-PSDP-01
Project Title:	Power Source Disclosure Program - 2020
TN #:	238079
Document Title:	2020 Calpine Solutions PSD PUBLIC_Redacted
Description:	N/A
Filer:	Bryan White
Organization:	Calpine Energy Solutions, LLC
Submitter Role:	Applicant
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2020 POWER SOURCE DISCLOSURE ANNUAL REPORT For the Year Ending December 31, 2020

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) 639-0573.

2020 POWER SOURCE DISCLOSURE ANNUAL REPORT SCHEDULE 1: PROCUREMENTS AND RETAIL SALES For the Year Ending December 31, 2020 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", "BPA," "Powerex,", or "Tacoma" as applicable. For specified procurements of ACS power, use the ACS Procurement Calculator to calculate the resource breakdown comprising he 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 he 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)

Unspecified Power (MWh)

Procurement to be adjusted

Net Specified Natural Gas

Net Specified Coal & Other Fossi Fuels

Net Specified Nuclear, Large Hydro, Renewables, and ACS Power

GHG Emissions (excludes grandfathered emissions)

GHG Emissions Intensity (in MT CO₂e/MWh)

0.3512

DIRECTLY DELIVERED RENEWABLES							A STATE OF THE STA						
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 CO2e/MWh)	GHG Emissions (in MT CO₂e)	N/A
vell Island - Atwell Island PV Solar Generating IS	Solar	CA	W3159	60947A		58366	3,080	× 1	3,080	3,080	+ 1	-	
Solar Ranch 1, LLC - Antelope Solar Ranch - IS	Solar	CA	W3474	60790A		57378	6,707	1 × 1	6,707	6,707			
Solar Ranch 1, LLC - AVSR1 - Antelope Solar S	Solar	CA	W4141	60790A		57378	10,833	, F	10,833	10,833		-	
Solar Ranch 1, LLC - AVSR1 - Antelope Solar	Solar	CA	W2803	60790A		57378	6,439	-	6,439	6,439	-	-	
Solar Ranch 1, LLC - AVSR1 - Antelope Solar	Solar	CA	W3274	60790A		57378	7,243	-	7,243	7,243	-	-	
Solar Ranch 1, LLC - AVSR1 - Antelope Solar	Solar	CA	W3275	60790A		57378	4,560	- 1	4,560	4,560	- "		
/ Solar Ranch 1, LLC - AVSR1 - Antelope Solar	Solar	CA	W3280	60790A		57378	3,756	-	3,756	3,756	- "		
/ Solar Ranch 1, LLC - AVSR1 - Antelope Solar	Solar	CA	W3849	60790A		57378	8,748	-	8,748	8,748	- 1		
venal Park - Avenal Park LLC	Solar	CA	W2074	60912A		57359	887	-	887	887	- 1		
ythe Solar 110, LLC - BLY110-B01 Block 1	Solar	CA	W4880	60878A		60093	84,311		84,311	84,311	÷ *	-	
the Solar 110, LLC - BLY110-B02 Block 02	Solar	CA	W4953	60878A	i i	60093	76,719	- 9	76,719	76,719	- 3	-	į.
the Solar 110, LLC - BLY110-B03 Block 03	Solar	CA	W4954	60878A		60093	49,952		49,952	49,952	- 3		
	Biomass & biowa	100000		60866A	0	57163	32,500	-	32,500	32,500	0.0041	134	
	The state of the s	CA		62045A	0	58376	3,859	-	3,859	3,859	- 1	-	
	Solar	CA	W3793	61068A	Š.	57993	28,923		28,923	28,923	- 3	-	
SERT SUNLIGHT 300, LLC - DSL-BLK05 & 06	777773	CA		61068A	Š	57993	9,473	_	9,473	9,473	- 3		
SERT SUNLIGHT 300, LLC - DSL-BLK07 & 08		CA		61068A	6	57993	4,562		4,562	4,562	- 3		
	Solar	CA		61068A	9	57993	4,740		4,740	4,740			
	Solar	CA	The state of the s	61068A		57993	9,472		9,472	9,472			
		CA	The second secon	60117A		50066	8,977		8,977	8,977	0.0363	326	
		CA	Secretary 19	62804A		60049	14,555		14,555	14.555	-	020	
		AZ	The State of the S	64321A		63114	10,180		10,180	10,180			
		CA		60521A		261	13,793		13,793	13,793			
		CA		62691A		59977	29,480		29,480	29,480			
A STATE OF THE STA	CA COLLEGE	CA	The Control of the Co	63166A		60591	11.023	2	11,023	11.023			
		CA		60914A		57361	2,830		2,830	2,830			
	CA COLLEGE	CA		60945A	8	58003	2,352		2,352	2,352			2
	CANCEL CO.	CA	Transfer of Control Control	60946A		58003	3,603		3,603	3,603			
		CA	1.000	60913A		57360	2,933		2,933	2,933			
	Solar Biomass & biowa	700		60633A	e.	10091	3,846		3,846	3,846	0.0601	231	-
	Biomass & biowa	12 606		60633A	-	10091	3,380	8	3,380	3,380	0.0601	203	
	The state of the s	12700	A STATE OF THE STA	60633A	-	10091	3,360			3,846	0.0601	203	
	Biomass & biowa	14 (60)							3,846		200001000	The second secon	-
	Biomass & biowa	12/2/2		60633A		10091	3,846		3,846	3,846	0.0601	231	
	DATE (1975)	CA		60399A		50536	7,121		7,121	7,121	¥	-	
DEFENDED TO THE PROPERTY OF TH		CA	The second second	60400A		50536	4,689		4,689	4,689	•	-	
Iderness III - Wilderness III	Wind	CA	W531	60401A		50536	5,500		5,500	5,500	-	-	
									181	2	#N/A		
									1921		#N/A		
						ļI			191	9	#N/A		
						\vdash			343	2	#N/A		
						\vdash			(4)	2	#N/A		
											AIR LIA		
									323	Ψ.	#N/A #N/A		

RPS ID Sour 1442A 5 2246A 5 22246A 5 2259A 5 0775A 5 0944A 5	EIA ID of REC Substit Source Power 57315 N/A 58126 N/A 58127 N/A 59083 N/A 55989 N/A SPECIFIED NO.	tute Gross MWh Procured 3,908 3,058 78,628 31,453 2,953 90000 N-RENEWABLE PROC	MWh Resold	Net MWh Procured 3,908 33,058 78,628 31,453 2,953 90,000 Net MWh Procured 133 134 873 1,067	Adjusted Net MWh Procured 3,908 33,058 78,628 31,453 2,953 90,000 Adjusted Net MWh Procured 133 134 873 1,067	GHG Emissions Factor (in MT CO2e/MWh) #N/A #N/A #N/A #N/A #N/A #N/A GHG Emissions Factor (in MT CO2e/MWh)	GHG Emissions (in MT CO ₂ e) GHG Emissions (in MT CO ₂ e)	Eligible for Grandfathere Emissions? No No No No No
2246A 5 2246A 5 2859A 5 0775A 5 0944A 5	58126 N/A 58127 N/A 59083 N/A 56320 N/A 55989 N/A SPECIFIED NOI	33,058 78,628 31,453 2,963 90000 N-RENEWABLE PROC Gross MWh Procured 339 133 217 134 218 873 219 1,067 220 2 221 461 222 464 223 1,365	JREMENTS MWh Resold	33,058 78,628 31,453 2,953 90,000 Net MWh Procured 133 134 873 1,067	33,058 78,628 31,453 2,953 90,000 Adjusted Net MWh Procured 133 134 873	#N/A #N/A #N/A #N/A #N/A GHG Emissions Factor (in MT CO2e/MWh)	(in MT CO ₂ e)	No No No No
2246A 5 2859A 5 0775A 5 0944A 5	58127 N/A 59083 N/A 56320 N/A 55989 N/A SPECIFIED NOI	78,628 31,453 2,953 90000 N-RENEWABLE PROC Gross MWh Procured 339 133 217 134 218 873 219 1,067 220 2 221 464 223 1,365	JREMENTS MWh Resold	78,628 31,453 2,953 90,000 Net MWh Procured 133 134 873 1,067	78,628 31,453 2,953 90,000 Adjusted Net MWh Procured 133 134 873	#N/A #N/A #N/A #N/A GHG Emissions Factor (in MT CO2e/MWh)	(in MT CO ₂ e)	No No No No
2859A 5 0775A 5 0944A 5	59083 N/A 56320 N/A 55989 N/A SPECIFIED NO	31,453 2,953 90000 N-RENEWABLE PROC Gross MWh Procured 339 133 217 134 218 873 219 1,067 220 2 221 461 222 464 223 1,365	JREMENTS MWh Resold	31,453 2,953 90,000 Net MWh Procured 133 134 873 1,067	31,453 2,953 90,000 Adjusted Net MWh Procured 133 134 873	#N/A #N/A #N/A GHG Emissions Factor (in MT CO2e/MWh)	(in MT CO ₂ e)	No No No
0775A 5 0944A 5 SP	56320 N/A 55989 N/A SPECIFIED NO	2,953 90000 V-RENEWABLE PROC Gross MWh Procured 339 133 217 134 218 873 219 1,067 220 2 221 461 222 464 223 1,365	JREMENTS MWh Resold	2,953 90,000 Net MWh Procured 133 134 873 1,067	2,953 90,000 Adjusted Net MWh Procured 133 134 873	#N/A #N/A GHG Emissions Factor (in MT CO2e/MWh)	(in MT CO ₂ e)	No No
0944A 5 SP	55989 N/A SPECIFIED NO	90000 N-RENEWABLE PROC Gross MWh Procured 339 133 217 134 218 873 219 1,067 220 2 221 461 222 464 223 1,365	JREMENTS MWh Resold	90,000 Net MWh Procured 133 134 873 1,067	Adjusted Net MWh Procured 133 134 873	#N/A GHG Emissions Factor (in MT CO2e/MWh)	(in MT CO ₂ e)	No
SP	SPECIFIED NO	N-RENEWABLE PROC Gross MWh Procured 339 133 217 134 218 873 219 1,067 220 2 221 461 222 462 223 1,365	MWh Resold	Net MWh Procured 133 134 873 1,067	Adjusted Net MWh Procured 133 134 873	GHG Emissions Factor (in MT CO2e/MWh) - -	(in MT CO ₂ e)	
		Gross MWh Procured 339 133 217 134 218 873 219 1,067 220 2 221 461 222 464 223 1,365	MWh Resold	133 134 873 1,067	133 134 873	Factor (in MT CO2e/MWh) - - -	(in MT CO ₂ e)	N/A
N/A N/A	N/A EIA I	339 133 217 134 218 873 219 1,067 220 2 221 461 222 464 223 1,365	- - - -	133 134 873 1,067	133 134 873	-	-	N/A
		217 134 218 873 219 1,067 220 2 221 461 222 464 223 1,365	- - - -	134 873 1,067	134 873	-		
		218 873 219 1,067 220 2 221 461 222 464 223 1,365	- - -	873 1,067	873	-		
		219 1,067 220 2 221 461 222 464 223 1,365	- - -	1,067				
		220 2 221 461 222 464 223 1,365	-		1,067		-	
		221 461 222 464 223 1,365	-	2		-	-	
		222 464 223 1,365		_	2	-	-	
		223 1,365		461	461	-	-	
			-	464	464	-	-	
		221	-	1,365	1,365	-	-	
			-	441	441	-	-	
		235 70	-	70	70	-	-	
		236 726	-	726	726	-	-	
		239 940	-	940	940	-	-	
		240 890	-	890	890	-	-	
		249 1,413	-	1,413	1,413	-	-	
		682 597	-	597	597	-	-	
		254 250	-	250	250	-	-	
		265 545	-	545	545	-	-	
		266 655	-	655	655	-	-	
		267 964	-	964	964	-	-	
		268 1,562	-	1,562	1,562	-		
		269 449	-	449	449	-		
		270 922	-	922	922	-		
		272 729	-	729	729	-	-	
		275 843	-	843	843	-	-	
		279 529	-	529	529	-	-	
		285 831	-	831	831	-	-	
		287 1,080	-	1,080	1,080	-		
		417 160	-	160	160	-		
		419 350	_	350	350	-	-	
		412 246	-	246	246		-	
		2.0		-	-	#N/A		
				-	-	#N/A		
				_	-	#N/A		
PROCUE	PROCUREMENTS FR	OM ASSET-CONTROL	LING SUPPLIER	RS		77.47.4		
N/A N/A	N/A EIA I	Gross MWh D Procured	MWh Resold	Net MWh Procured	Adjusted Net MWh Procured	GHG Emissions Factor (in MT CO2e/MWh)	GHG Emissions (in MT CO ₂ e)	N/A
					-	#N/A		
					-	#N/A		
					-	#N/A		
					-	#N/A		
	N/A	N/A N/A EIAI				N/A N/A EIA ID Procured MWh Resold Procured		N/A N/A EIA ID Procured MWh Resold Procured Procured Procured HN/A HN/A

2020 POWER SOURCE DISCLOSURE ANNUAL REPORT SCHEDULE 2: RETIRED UNBUNDLED RECS

For the Year Ending December 31, 2020 Calpine Energy Solutions, LLC CA Power Mix

INSTRUCTIONS: Enter information about retired unbundled RECs associated with this electricity portfolio. Insert additional rows as needed. All fields in white should be filled out. Fields in grey autopopulate as needed and should not be filled out.

		Total Retired L	Inbundled RECs	3,383
	RETIRED UNE	BUNDLED RECS		
Facility Name	Fuel Type	State or Province	RPS ID	Total Retired (in MWh)
Alite - Alite	Wind	CA	63338A	3,383

2020 POWER SOURCE DISCLOSURE ANNUAL REPORT SCHEDULE 3: POWER CONTENT LABEL DATA For the Year Ending December 31, 2020 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	728,718	
Biomass & Biowaste	47,418	*
Geothermal	8,977	
Eligible Hydroelectric	13,793	
Solar	376,485	
Wind	282,045	
Coal	2	0.0%
Large Hydroelectric	19,689	
Natural gas	- I	0.0%
Nuclear	-	0.0%
Other	-	0.0%
Unspecified Power		*
Total		
Total Retail Sales (MWh)		
GHG Emissions Intensity (conv	rerted to lbs CO ₂ e/MWh)	774
Percentage of Retail Sales Cov	ered by Retired Unbundled	0.1%

RECs

0.1%

POWER SOURCE DISCLOSURE ANNUAL REPORT ATTESTATION FORM

for the year ending December 31, 2020 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: 06/01/2021

Executed at: San Diego, CA