

VALLEY CLEAN ENERGY ALLIANCE

Staff Report – Item 15

TO: Board of Directors

FROM: Gordon Samuel, Assistant General Manager and Director of Power Services

SUBJECT: Accept and attest to the veracity of VCE’s Power Content Label for the Standard Green and Ultra Green products for 2020

DATE: September 9, 2021

RECOMMENDATION:

Attest to the veracity of the information presented in Valley Clean Energy’s 2020 Power Source Disclosure Annual Reports and Power Content Label for the Standard Green and Ultra Green products.

BACKGROUND:

California Public Utilities Code requires all retail sellers of electric energy, including Valley Clean Energy (VCE), to disclose “accurate, reliable, and simple-to-understand information on the sources of energy, and the associated emissions of greenhouse gases,” that are delivered to their respective customers.¹ Applicable regulations direct retail sellers to provide such communications no later than October 1st of each year. The format for requisite communications is highly prescriptive, offering little flexibility to retail sellers when presenting such information to customers. This format has been termed the “Power Content Label” by the California Energy Commission (“CEC”).

Information presented in the Power Content Label includes the appropriate share of total energy supply based on resource type, including both renewable and conventional fuel sources. In the event that a retail seller meets a certain percentage of its supply obligation from unspecified resources, the report must identify such purchases as “unspecified sources of power.” Unspecified sources of power refers to electricity that cannot be sourced back to a specific generator, such as energy purchased through open market transactions.

During the 2020 calendar year, VCE delivered a substantial portion of its electric energy supply from various renewable energy sources, including eligible hydroelectric, solar, and wind. For VCE Standard Green customers, 43.9% of the energy delivered was from renewable energy resources with a greenhouse gas emissions intensity of 190 lbs CO₂e/MWh. For Ultra Green customers, 100% of the energy delivered was generated from renewable energy resources with

¹ California Public Utilities Code Section 398.1(b).

a greenhouse gas emissions intensity of 0 lbs CO₂e/MWh. A copy of VCE's Power Content Label listing the energy resources used during 2020 is attached.

Consistent with applicable regulations and CEC guidance, VCE will complete required customer communications in accordance with the October 1, 2020 deadline. All customers currently enrolled in the VCE program will receive the Power Content Label via mail or e-mail, as applicable.

To fulfill its Power Content Label reporting obligation, VCE may provide the CEC with the Board's attestation regarding the veracity of the information presented in VCE's 2020 Power Source Disclosure Annual Reports and Power Content Label for the Standard Green and Ultra Green products. Staff recommends VCE self-certify both the Standard Green and Ultra Green products in lieu of submitting them to a third-party Certified Public Accountant for a formal audit. VCE's technical consultants (SMUD) prepared the Power Source Disclosure annual reports and Power Content Label, which were subsequently reviewed by another VCE consultant (EQ Research). EQ Research's review, as detailed in the attached report, verified that the information contained in the annual reports and Power Content Label is accurate.

Based on the foregoing, staff requests that the Board accept this determination and attest to the veracity of the information included in VCE's Power Source Disclosure annual reports and Power Content Label for the Standard Green and Ultra Green products for the 2020 calendar year.

ATTACHMENTS:

- 1) 2020 Annual Power Source Disclosure Report for the Standard Green Product
- 2) 2020 Annual Power Source Disclosure Report for the Ultra Green Product
- 3) 2020 Power Content Label
- 4) EQ Research Report re 2020 Power Source Disclosure Annual Reports and Power Content Label

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	
Valley Clean Energy Alliance	
ELECTRICITY PORTFOLIO NAME	
Standard Green	
CONTACT INFORMATION	
NAME	Gordon Samuel
TITLE	Assistant General Manager & Director of Power Services
MAILING ADDRESS	604 2nd Street
CITY, STATE, ZIP	Davis, CA 95616
PHONE	1-855-699-8232
EMAIL	info@valleycleanenergy.org
WEBSITE URL FOR PCL POSTING	https://valleycleanenergy.org/power-sources/

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.

INTRODUCTION

Retail suppliers are required to submit separate Annual Reports for each electricity portfolio offered to California retail consumers in the previous calendar year. Enter the Retail Supplier Name and Electricity Portfolio Name at the top of Schedule 1, Schedule 2, Schedule 3, and the Attestation.

A complete Annual Report includes the following tabs:

PSD Intro
Instructions
Schedule 1 - Procurements and Retail Sales
Schedule 2 - Retired Unbundled Renewable Energy Credits (RECs)
Schedule 3 - Annual Power Content Label Data
GHG Emissions Factors
Asset-Controlling Supplier (ACS) Procurement Calculator
PSD Attestation

INSTRUCTIONS

Schedule 1: Procurements and Retail Sales

Retail suppliers of electricity must complete this schedule by entering information about all power procurements and generation that served the identified electricity portfolio covered in this filing in the prior year. The schedule is divided into sections: directly delivered renewables, firmed-and-shaped imports, specified non-renewables, and procurements from ACSs. Insert additional rows as needed to report all procurements or generation serving the subject product. Provide the annual retail sales for the subject product in the appropriate space. At the bottom of Schedule 1, provide the retail suppliers' other electricity end-uses that are not retail sales, such as transmission and distribution losses. Retail suppliers shall submit a purchase agreement or ownership arrangement documentation substantiating that any eligible firmed-and-shaped product for which it is claiming an exclusion was executed prior to January 1, 2019. **Any retail supplier that offered multiple electricity portfolios in the prior year must submit separate Annual Reports for each portfolio offered.**

Specified Purchases: A Specified Purchase refers to a transaction in which electricity is traceable to specific generating facilities by any auditable contract trail or equivalent, such as a tradable commodity system, that provides commercial verification that the electricity claimed has been sold once and only once to retail consumers. Do not enter data in the grey fields. For specified purchases, include enter following information for each line item:

Facility Name - Provide the name used to identify the facility.

Fuel Type - Provide the resource type (solar, natural gas, etc.) that this facility uses to generate electricity.

Location - Provide the state or province in which the facility is located.

Identification Numbers - Provide all applicable identification numbers from the Western Renewable Energy Generation Information System (WREGIS), the Energy Information Agency (EIA), and the California Renewables Portfolio Standard (RPS).

Gross Megawatt Hours Procured - Provide the quantity of electricity procured in MWh from the generating facility.

Megawatt Hours Resold - Provide the quantity of electricity resold at wholesale.

Unspecified Power: Unspecified Power refers to electricity that is not traceable to specific generation sources by any auditable contract trail or equivalent, or to power purchases from a transaction that expressly transferred energy only and not the RECs associated from a facility. **Do not enter procurements of unspecified power.** The schedule will calculate unspecified power procurements automatically.

Schedule 2: Retired Unbundled RECs

Complete this schedule by entering information about unbundled REC retirements in the previous calendar year.

Schedule 3: Annual Power Content Label Data

This schedule is provided as an automated worksheet that uses the information from Schedule 1 to calculate the power content and GHG emissions intensity for each electricity portfolio. The percentages calculated on this worksheet should be used for your Power Content Label.

ACS Resource Mix Calculator

Retail suppliers may report specified purchases from ACS system power if the ACS provided its fuel mix of its specified system mix to the Energy Commission. Use the calculator to determine the resource-specific procurement quantities, and transfer them to Schedule 1.

GHG Emissions Factors

This tab will be displayed for informational purposes only; it will not be used by reporting entities, since the emissions factors below auto-populate in the relevant fields on Schedules 1 & 3.

Attestation

This template provides the attestation that must be submitted with the Annual Report to the Energy Commission, stating that the information contained in the applicable schedules is correct and that the power has been sold once and only once to retail consumers. This attestation must be included in the package that is transmitted to the Energy Commission. Please provide the complete Annual Report in Excel format and the complete Annual Report with signed attestation in PDF format as well.

2020 POWER SOURCE DISCLOSURE ANNUAL REPORT
SCHEDULE 1: PROCUREMENTS AND RETAIL SALES
For the Year Ending December 31, 2020
Valley Clean Energy Alliance
Standard Green

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 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)	704,453
Net Specified Procurement (MWh)	566,041
Unspecified Power (MWh)	138,413
Procurement to be adjusted	-
Net Specified Natural Gas	-
Net Specified Coal & Other Fossil Fuels	-
Net Specified Nuclear, Large Hydro, Renewables, and ACS Power	566,041
GHG Emissions (excludes grandfathered emissions)	60,736
GHG Emissions Intensity (in MT CO ₂ e/MWh)	0.0862

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		
Biglow Canyon Wind Farm - Biglow Canyon 3	Wind	OR	W1588	63056A		56485	21,991		21,991	21,991	-	-			
Biglow Canyon Wind Farm - Biglow Phase 2	Wind	OR	W1268	63055A		56485	29,822		29,822	29,822	-	-			
Campo Verde Solar Project - Campo Verde Solar	Solar	CA	W3591	60652A		58467	15,036		15,036	15,036	-	-			
Centinela Solar Energy - CSE - Block 1F	Solar	CA	W3961	60837A		58430	13,277		13,277	13,277	-	-			
Centinela Solar Energy - CSE - Block 1G	Solar	CA	W3964	60837A		58430	4,437		4,437	4,437	-	-			
Centinela Solar Energy - CSE - Blocks 1A, 1B, & 1C	Solar	CA	W3805	60837A		58430	15,373		15,373	15,373	-	-			
Centinela Solar Energy - CSE - Blocks 1D & 1E	Solar	CA	W3880	60837A		58430	13,652		13,652	13,652	-	-			
Indian Valley Hydro - Indian Valley Hydro	Eligible hydro	CA	W607	60161A		50129	8,643		8,643	8,643	-	-			
Ivanpah - Unit 1	Solar	CA	W3189	62273A		57074	10,875		10,875	10,875	0.0903	982			
Mojave Solar Project - Mojave Solar Project - Alpha	Solar	CA	W4255	60848A		57331	26,386		26,386	26,386	-	-			
Mt. Poso Cogeneration Facility - MTNPOS_1_UNIT	Biomass & biowa	CA	W1091	60695A		54626	15,727		15,727	15,727	0.0326	513			
Topaz Solar Farms LLC - Topaz 10-16	Solar	CA	W3226	61698A		57695	35,293		35,293	35,293	-	-			
Topaz Solar Farms LLC - Topaz 1-9	Solar	CA	W3193	61698A		57695	48,719		48,719	48,719	-	-			
Tucannon River Wind Farm - Tucannon River 1	Wind	WA	W4482	63027A		58571	49,768		49,768	49,768	-	-			

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?		
									-	-	#N/A				
									-	-	#N/A				
									-	-	#N/A				
									-	-	#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		
Mid-C Hydro - Wanapum (Grant County PUD)	Large hydro	WA				3888	28,801		28,801	28,801	-	-			
Mid-C Hydro - Rock Island 6200 and Rocky Reach 3883 (Chelan County PUD)	Large hydro	WA				3883	21,199		21,199	21,199	-	-			
Mid-C Hydro - Wanapum (Grant County PUD)	Large hydro	WA				3888	7,772		7,772	7,772	-	-			
Mid-C Hydro - Wells (Douglas County PUD)	Large hydro	WA				3886	175,249		175,249	175,249	-	-			
Balch #1 PH	Large hydro	CA				217	150.25		150	150	-	-			
Balch #2 PH	Large hydro	CA				218	982.88		983	983	-	-			
Belden	Large hydro	CA				219	1,414.91		1,415	1,415	-	-			
Bucks Creek	Large hydro	CA				220	0.68		1	1	-	-			
Butt Valley	Large hydro	CA				221	580.56		581	581	-	-			
Caribou 1	Large hydro	CA				222	551.08		551	551	-	-			
Caribou 2	Large hydro	CA				223	1,817.80		1,818	1,818	-	-			
Cresta	Large hydro	CA				231	556.99		557	557	-	-			

2020 POWER SOURCE DISCLOSURE ANNUAL REPORT
SCHEDULE 3: POWER CONTENT LABEL DATA
For the Year Ending December 31, 2020
Valley Clean Energy Alliance
Standard Green

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	308,999	43.9%
Biomass & Biowaste	15,727	2.2%
Geothermal	-	0.0%
Eligible Hydroelectric	8,643	1.2%
Solar	183,048	26.0%
Wind	101,581	14.4%
Coal	-	0.0%
Large Hydroelectric	257,042	36.5%
Natural gas	-	0.0%
Nuclear	-	0.0%
Other	-	0.0%
Unspecified Power	138,413	19.6%
Total	704,453	100.0%

Total Retail Sales (MWh)	704,453
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GHG Emissions Intensity (converted to lbs CO₂e/MWh)	190
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Percentage of Retail Sales Covered by Retired Unbundled RECs	0.0%
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ASSET CONTROLLING SUPPLIER RESOURCE MIX CALCULATOR

Instructions: Enter total net specified procurement of ACS system resources into cell A8, A23, or A38. In Column E, the calculator will determine quantities of resource-specific net procurement for entry on Schedule 1.

Powerex				
Net MWh Procured	N/A	Resource Type	Resource Mix Factors	Resource-Specific Procurements from ACS
		Biomass & biowaste		-
		Geothermal		-
		Eligible hydroelectric		-
		Solar		-
		Wind	0.00	-
		Coal		-
		Large hydroelectric	0.88	-
		Natural gas	0.01	-
		Nuclear	0.01	-
		Other	0.04	-
		Unspecified Power	0.06	-

Bonneville Power Administration				
Net MWh Procured	N/A	Resource Type	Resource Mix Factors	Resource-Specific Procurements from ACS
		Biomass & biowaste		-
		Geothermal		-
		Eligible hydroelectric		-
		Solar	0.00	-
		Wind		-
		Coal		-
		Large hydroelectric	0.85	-
		Natural gas	0.00	-
		Nuclear	0.11	-
		Other	0.01	-
		Unspecified Power	0.04	-

Tacoma Power				
Net MWh Procured	N/A	Resource Type	Resource Mix Factors	Resource-Specific Procurements from ACS
		Biomass & biowaste		-
		Geothermal		-
		Eligible hydroelectric		-
		Solar		-
		Wind		-
		Coal		-
		Large hydroelectric	0.90	-
		Natural gas		-
		Nuclear	0.06	-
		Other		-
		Unspecified Power	0.04	-

**POWER SOURCE DISCLOSURE ANNUAL REPORT
ATTESTATION FORM**

for the year ending December 31, 2020

Valley Clean Energy Alliance

Standard Green

I, Gordon Samuel, Assistant General Manager & Director of Power Services, 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 Valley Clean Energy Alliance, 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: Gordon Samuel

Representing (Retail Supplier): Valley Clean Energy Alliance

Signature: _____

Dated: May 25, 2021

Executed at: Davis, California

2020 POWER SOURCE DISCLOSURE ANNUAL REPORT For the Year Ending December 31, 2020

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GENERAL INSTRUCTIONS

RETAIL SUPPLIER NAME	
Valley Clean Energy Alliance	
ELECTRICITY PORTFOLIO NAME	
UltraGreen	
CONTACT INFORMATION	
NAME	Gordon Samuel
TITLE	Assistant General Manager & Director of Power Services
MAILING ADDRESS	604 2nd Street
CITY, STATE, ZIP	Davis, CA 95616
PHONE	1-855-699-8232
EMAIL	info@valleycleanenergy.org
WEBSITE URL FOR PCL POSTING	https://valleycleanenergy.org/power-sources/

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.

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A complete Annual Report includes the following tabs:

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Instructions
Schedule 1 - Procurements and Retail Sales
Schedule 2 - Retired Unbundled Renewable Energy Credits (RECs)
Schedule 3 - Annual Power Content Label Data
GHG Emissions Factors
Asset-Controlling Supplier (ACS) Procurement Calculator
PSD Attestation

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Schedule 1: Procurements and Retail Sales

Retail suppliers of electricity must complete this schedule by entering information about all power procurements and generation that served the identified electricity portfolio covered in this filing in the prior year. The schedule is divided into sections: directly delivered renewables, firm-and-shaped imports, specified non-renewables, and procurements from ACSs. Insert additional rows as needed to report all procurements or generation serving the subject product. Provide the annual retail sales for the subject product in the appropriate space. At the bottom of Schedule 1, provide the retail suppliers' other electricity end-uses that are not retail sales, such as transmission and distribution losses. Retail suppliers shall submit a purchase agreement or ownership arrangement documentation substantiating that any eligible firm-and-shaped product for which it is claiming an exclusion was executed prior to January 1, 2019. **Any retail supplier that offered multiple electricity portfolios in the prior year must submit separate Annual Reports for each portfolio offered.**

Specified Purchases: A Specified Purchase refers to a transaction in which electricity is traceable to specific generating facilities by any auditable contract trail or equivalent, such as a tradable commodity system, that provides commercial verification that the electricity claimed has been sold once and only once to retail consumers. Do not enter data in the grey fields. For specified purchases, include enter following information for each line item:

Facility Name - Provide the name used to identify the facility.

Fuel Type - Provide the resource type (solar, natural gas, etc.) that this facility uses to generate electricity.

Location - Provide the state or province in which the facility is located.

Identification Numbers - Provide all applicable identification numbers from the Western Renewable Energy Generation Information System (WREGIS), the Energy Information Agency (EIA), and the California Renewables Portfolio Standard (RPS).

Gross Megawatt Hours Procured - Provide the quantity of electricity procured in MWh from the generating facility.

Megawatt Hours Resold - Provide the quantity of electricity resold at wholesale.

Unspecified Power: Unspecified Power refers to electricity that is not traceable to specific generation sources by any auditable contract trail or equivalent, or to power purchases from a transaction that expressly transferred energy only and not the RECs associated from a facility. **Do not enter procurements of unspecified power.** The schedule will calculate unspecified power procurements automatically.

Schedule 2: Retired Unbundled RECs

Complete this schedule by entering information about unbundled REC retirements in the previous calendar year.

Schedule 3: Annual Power Content Label Data

This schedule is provided as an automated worksheet that uses the information from Schedule 1 to calculate the power content and GHG emissions intensity for each electricity portfolio. The percentages calculated on this worksheet should be used for your Power Content Label.

ACS Resource Mix Calculator

Retail suppliers may report specified purchases from ACS system power if the ACS provided its fuel mix of its specified system mix to the Energy Commission. Use the calculator to determine the resource-specific procurement quantities, and transfer them to Schedule 1.

GHG Emissions Factors

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Attestation

This template provides the attestation that must be submitted with the Annual Report to the Energy Commission, stating that the information contained in the applicable schedules is correct and that the power has been sold once and only once to retail consumers. This attestation must be included in the package that is transmitted to the Energy Commission. Please provide the complete Annual Report in Excel format and the complete Annual Report with signed attestation in PDF format as well.

2020 POWER SOURCE DISCLOSURE ANNUAL REPORT
SCHEDULE 1: PROCUREMENTS AND RETAIL SALES
For the Year Ending December 31, 2020
Valley Clean Energy Alliance
UltraGreen

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 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)	1,950
Net Specified Procurement (MWh)	1,950
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	1,950
GHG Emissions (excludes grandfathered emissions)	0
GHG Emissions Intensity (in MT CO ₂ e/MWh)	0.0000

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
Centinela Solar Energy - CSE - Block 1F	Solar	CA	W3961	60837A		58430	975		975	975	-	-	
Indian Valley Hydro - Indian Valley Hydro	Eligible hydro	CA	W607	60161A		50129	975		975	975	-	-	
									-	-	#N/A		
									-	-	#N/A		
									-	-	#N/A		
									-	-	#N/A		
									-	-	#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?
									-	-	#N/A		
									-	-	#N/A		
									-	-	#N/A		
									-	-	#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
									-	-	#N/A		
									-	-	#N/A		
									-	-	#N/A		
									-	-	#N/A		
									-	-	#N/A		
									-	-	#N/A		
									-	-	#N/A		

PROCUREMENTS FROM ASSET-CONTROLLING SUPPLIERS

Facility Name	Fuel Type	N/A	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
									-	-	#N/A		
									-	-	#N/A		
									-	-	#N/A		
									-	-	#N/A		

END USES OTHER THAN RETAIL SALES	MWh
Distribution losses	127.98

2020 POWER SOURCE DISCLOSURE ANNUAL REPORT
SCHEDULE 3: POWER CONTENT LABEL DATA
For the Year Ending December 31, 2020
Valley Clean Energy Alliance
UltraGreen

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	1,950	100.0%
Biomass & Biowaste	-	0.0%
Geothermal	-	0.0%
Eligible Hydroelectric	975	50.0%
Solar	975	50.0%
Wind	-	0.0%
Coal	-	0.0%
Large Hydroelectric	-	0.0%
Natural gas	-	0.0%
Nuclear	-	0.0%
Other	-	0.0%
Unspecified Power	-	0.0%
Total	1,950	100.0%

Total Retail Sales (MWh)	1,950
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GHG Emissions Intensity (converted to lbs CO₂e/MWh)	-
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Percentage of Retail Sales Covered by Retired Unbundled RECs	0.0%
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ASSET CONTROLLING SUPPLIER RESOURCE MIX CALCULATOR

Instructions: Enter total net specified procurement of ACS system resources into cell A8, A23, or A38. In Column E, the calculator will determine quantities of resource-specific net procurement for entry on Schedule 1.

Powerex				
Net MWh Procured	N/A	Resource Type	Resource Mix Factors	Resource-Specific Procurements from ACS
		Biomass & biowaste		-
		Geothermal		-
		Eligible hydroelectric		-
		Solar		-
		Wind	0.00	-
		Coal		-
		Large hydroelectric	0.88	-
		Natural gas	0.01	-
		Nuclear	0.01	-
		Other	0.04	-
		Unspecified Power	0.06	-

Bonneville Power Administration				
Net MWh Procured	N/A	Resource Type	Resource Mix Factors	Resource-Specific Procurements from ACS
		Biomass & biowaste		-
		Geothermal		-
		Eligible hydroelectric		-
		Solar	0.00	-
		Wind		-
		Coal		-
		Large hydroelectric	0.85	-
		Natural gas	0.00	-
		Nuclear	0.11	-
		Other	0.01	-
		Unspecified Power	0.04	-

Tacoma Power				
Net MWh Procured	N/A	Resource Type	Resource Mix Factors	Resource-Specific Procurements from ACS
		Biomass & biowaste		-
		Geothermal		-
		Eligible hydroelectric		-
		Solar		-
		Wind		-
		Coal		-
		Large hydroelectric	0.90	-
		Natural gas		-
		Nuclear	0.06	-
		Other		-
		Unspecified Power	0.04	-

**POWER SOURCE DISCLOSURE ANNUAL REPORT
ATTESTATION FORM**
for the year ending December 31, 2020
Valley Clean Energy Alliance
UltraGreen

I, Gordon Samuel, Assistant General Manager & Director of Power Services, 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 Valley Clean Energy Alliance, 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: Gordon Samuel

Representing (Retail Supplier): Valley Clean Energy Alliance

Signature: _____

Dated: May 25, 2021

Executed at: Davis, California

2020 POWER CONTENT LABEL						
Valley Clean Energy Alliance						
https://valleycleanenergy.org/power-sources/						
Greenhouse Gas Emissions Intensity (lbs CO ₂ e/MWh)			Energy Resources	Standard Green	UltraGreen	2020 CA Power Mix
Standard Green	UltraGreen	2020 CA Utility Average	Eligible Renewable¹	43.9%	100.0%	33.1%
190	0	466	Biomass & Biowaste	2.2%	0.0%	2.5%
<p>A bar chart comparing the greenhouse gas emissions intensity of three electricity sources. The y-axis represents intensity in lbs CO₂e/MWh, ranging from 0 to 1000. The x-axis lists three categories: Standard Green (blue bar, 190), UltraGreen (green bar, 0), and 2020 CA Utility Average (red bar, 466). A legend identifies the bars: Standard Green (blue), UltraGreen (green), and 2020 CA Utility Average (red).</p>			Geothermal	0.0%	0.0%	4.9%
			Eligible Hydroelectric	1.2%	50.0%	1.4%
			Solar	26.0%	50.0%	13.2%
			Wind	14.4%	0.0%	11.1%
			Coal	0.0%	0.0%	2.7%
			Large Hydroelectric	36.5%	0.0%	12.2%
			Natural Gas	0.0%	0.0%	37.1%
			Nuclear	0.0%	0.0%	9.3%
			Other	0.0%	0.0%	0.2%
			Unspecified Power²	19.6%	0.0%	5.4%
			TOTAL	100.0%	100.0%	100.0%
Percentage of Retail Sales Covered by Retired Unbundled RECs³:				0%	0%	
<p>¹The eligible renewable percentage above does not reflect RPS compliance, which is determined using a different methodology.</p> <p>²Unspecified power is electricity that has been purchased through open market transactions and is not traceable to a specific generation source.</p> <p>³Renewable energy credits (RECs) are tracking instruments issued for renewable generation. Unbundled renewable energy credits (RECs) represent renewable generation that was not delivered to serve retail sales. Unbundled RECs are not reflected in the power mix or GHG emissions intensities above.</p>						
For specific information about this electricity portfolio, contact:			Valley Clean Energy Alliance 1-855-699-8232			
For general information about the Power Content Label, visit:			http://www.energy.ca.gov/pcl/			
For additional questions, please contact the California Energy Commission at:			Toll-free in California: 844-454-2906 Outside California: 916-653-0237			

Valley Clean Energy Alliance

POWER SOURCE DISCLOSURE INDEPENDENT REVIEW OF
STANDARD GREEN PRODUCT AND ULTRAGREEN PRODUCT
FOR REPORTING YEAR 2020

To: Gordon Samuel, Asst. General Manager & Director of Power Resources

From: Miriam Makhyou, CEO, EQ Research, LLC
Blake Elder, Sr. Energy Policy Research Analyst, EQ Research, LLC

Date: September 1, 2021

Introduction

Valley Clean Energy Alliance (VCE) has engaged EQ Research, LLC (EQ Research) to assist with an independent review of VCE's Standard Green Power Source Disclosure (PSD) Annual Report and UltraGreen PSD Annual Report (together, the "Annual Reports") for the year ending December 31, 2020. We have performed the procedures enumerated below to assist VCE with complying with the auditing and verification requirements of the PSD Program, as defined in Section 1394.2 of the California Code of Regulations, Title 20.

EQ Research obtained the underlying documentation¹ used by VCE to complete the Annual Reports from VCE and accepts the accuracy of the information provided by VCE. EQ Research did not access VCE's Western Renewable Energy Generation Information System (WREGIS) account information to verify the authenticity of the information provided by VCE but was provided an export of information from WREGIS.²

¹ All files referenced in this report can be accessed at: <https://eqresearch.sharefile.com/d-s2c331eafa2424b838bb8359014dcad93>

² See 2020 Standard Green RPS Retirement and 2020 UltraGreen RPS Retirement files in the Sharefile link.

Review Procedures and Findings

EQ Research based its detailed review of the Annual Reports on the audit procedures detailed in Section 1394.2(b) of the PSD program regulations. The procedures and associated findings for the Annual Reports are detailed below.

Standard Green PSD Report Review and UltraGreen PSD Report Review

(b) Audit Procedures (1)(A)

EQ Research used the following publicly available sources in order to validate the information in the Annual Reports:

Source 1 (EIA): Energy Information Administration (EIA), Form EIA-923 detailed data, 2020: EIA-923 Early release Zip File, EIA923_Schedules_2_3_4_5_M_12_2020_Early_Release.xlsx and 2019 Zip File, EIA923_Schedules_2_3_4_5_M_12_2019_Final.xlsx, Page 1 Generation and Fuel Data, accessed on August 27, 2021 from <https://www.eia.gov/electricity/data/eia923/>

Source 2 (CEC): California Energy Commission (CEC), California's Renewables Portfolio Standard (RPS) Public Search exported to Excel, accessed on August 27, 2021 from <https://rps.energy.ca.gov/Pages/Search/SearchApplications.aspx>

EQ Research agreed the specified purchases³ by (a) facility name, (b) facility number provided by EIA, RPS ID, (c) kilowatt-hours, and (d) fuel type from the information used to prepare used to prepare the Annual Reports is consistent with what is presented in the Annual Reports Schedule 1⁴ with three exceptions:

- a. In the Standard Green PSD Annual Report, Ivanpah - Unit 1's Natural Gas (CEC Renewable) and Solar fuel components are not split out into two different rows, as is shown in Col. D of the "Pivot" tab of the "2020PSDSupplyProductAllocations" spreadsheet from VCE. Ivanpah - Unit 1 comprises a solar generator and a natural gas generator, both of which have the same EIA Plant ID (57074) and the solar generator portion of the unit has an RPS ID (62273A). Both Ivanpah - Unit 1 components have the same PCC Categorization, WREGIS ID, RPS ID, and EIA ID in the VCE primary materials and PSD Annual Report. Ivanpah - Unit 1 is considered a renewable resource by the CEC because the natural gas used to maintain the system overnight does not count towards the resource's 5% limit on fossil fuel use. Therefore, listing the Ivanpah - Unit 1 resource in the PSD Annual Report as "Solar" appears to be the appropriate reporting value.
- b. Row 59 of Schedule 1 of Standard Green PSD Annual Report lists "Kings" as the facility name and Row 33 of "Hydro" tab lists "Kings River" as the facility name. The EIA ID and Gross MWh Procured for the resource are both consistent between the VCE primary materials and the PSD Annual Report. This facility name inconsistency has no material impact on the resource percentages or greenhouse gas content of the Standard Green Product.
- c. Row 42 of Schedule 1 of Standard Green PSD Annual Report, resource, "Mid-C Hydro - Rock Island 6200 and Rocky Reach 3883 (Chelan County PUD)" includes two resources on one row (Rock Island, which is EIA Plant ID 6200 and Rocky Reach, which is EIA Plant ID 3883) and lists only EIA Plant ID 3883, but Row 12 of the "Hydro" tab lists EIA Plant IDs 6200 & 3883. The PSD report Schedule 1 is missing the 6200 EIA Plant ID. This inconsistency has no material impact on the resource percentages or greenhouse

³ There were no resales.

⁴ This information was checked against information in the following links: Source for RPS IDs: <https://rps.energy.ca.gov/Pages/Search/SearchApplications.aspx>; Source for EIA IDs: <https://www.eia.gov/electricity/data/eia923/>

gas content of the Standard Green Product. Both resources are considered large hydro and both have a greenhouse gas emissions content of 0 MT CO₂e/MWh (per “GHG Emissions Factors” tab of the PSD Annual Report spreadsheet). The combined output of the two plants is represented equally in EQ Research’s validation in Appendix A since VCE has confirmed that it does not have detail on the specific output for each plant.

EQ Research verified that the MWh listed in the Annual Reports do not exceed the annual MWh from EIA 923 data as expected (see Appendix A. Specified Facility Review Results).

EQ Research also tested the mathematical accuracy of Schedule 1 and noted no exceptions.

(b) Audit Procedures (1)(B)(1)

EQ Research agreed the facility name, facility numbers provided by EIA and RPS, kilowatt hours, and the fuel type from the invoice match the information used to prepare Schedule 1 of the Annual Reports.

EQ Research verified the above information by reviewing a sample of 14 invoices for power purchases represented in the 2020 Annual Reports against the information used to prepare Schedule 1 of the Annual Reports and against the CEC and EIA data mentioned in (b) Audit Procedures (1)(A) above. The invoices were for purchases of 266,651 MWh of the total 567,991 MWh or 47% of the total MWh purchased by VCE for its green tariffs. The 266,651 MWh represented in the invoices were all RPS purchases (RECs and electricity) out of the total 310,949 MWh RPS portfolio, or 86% of the total RPS portfolio in Schedule 1.

See Appendix B. Sample of Purchases VCE used to Prepare Schedule 1 which shows two limitations to EQ Research’s review that have been clarified by VCE as being limited only by the sample provided with no exceptions to note otherwise:

VCE confirmed that outside of the sample of 14 invoices reviewed by EQ Research, there are additional invoices that were not reviewed by EQ Research for the remaining 44,298 MWh of RPS purchases and invoices for another remaining 257,042 MWh of carbon-free electricity, representing a total of 301,340 MWh not contained in the invoices.

Only 12 RPS resources out of 16 RPS resources in Schedule 1 were included in the sample of 14 invoices but the sample did not show all of the energy for the 12 resources. In total, the 12 RPS resources produced 306,512 MWh of renewable electricity in 2020. VCE confirmed that in addition to the invoices for 266,651 MWh of RPS purchases from those 12 RPS resources, there are additional invoices for the remaining 39,861 MWh.

(b) Audit Procedures (1)(B)(2)

This is not applicable since there are no facilities in the Annual Reports owned by VCE.

(b) Audit Procedures (1)(B)(3)

EQ Research verified a match between the date of generation from the 14 invoices in the sample to the reporting period of the information used to prepare Schedule 1.

See the “Energy Delivery Term” column in Appendix B. Sample of Purchases VCE used to Prepare Schedule 1.

(b) Audit Procedures (1)(B)(4)

This requirement is not applicable since VCE did not use unbundled Renewable Energy Credits (RECs) in its Annual Reports.

(b) Audit Procedures (1)(C)

The requirement that the auditor shall agree any excluded emissions meet the requirements pursuant to section 1393(d) is not applicable to 2019 deliveries for the 2020 reports but VCE has taken notice of this requirement for 2020 deliveries for the 2021 reports.

(b) Audit Procedures (2)

EQ Research obtained a copy of the 2020 Power Content Label to be provided to VCE customers for the Standard Green and UltraGreen products. EQ Research verified that the resource portfolio percentages listed for each product on the 2020 Power Content Label match the respective percentages listed in Schedule 3 of the Power Source Disclosure Annual Reports. EQ Research also verified that the greenhouse gas emissions intensity for each product listed on the Power Content Label match those calculated on the Power Source Disclosure Annual Reports.

This report is intended solely for the information and use of the specified parties listed above and is not intended to be and should not be used by anyone other than those specified parties

Appendix A. Specified Facility Review Results

RPS	Ultra Green	Standard Green	EIA Plant ID	RPS ID	Facility Name Vlookup using EIA ID	Facility Name VLOOKUP using RPS ID	Facility Name from VCEA Annual Reports	MWh Generation Vlookup using EIA ID	MWh Generation Annual EIA - 2020	MWh Procured by VCEA in 2020	Adjusted Net MWh Procured in 2020 by VCEA	% Resource MWh VCEA Reported of Total EIA MWh	Technology VLOOKUP using RPS ID	EIA Fuel Source	Fuel Type VCEA
1	1	1	58457	6052A	Campo Verde Solar	Campo Verde Solar Project	Campo Verde Solar Project - Campo Verde Solar	335,317	320,281	15,036	4.48%	Photovoltaic	SUN	Solar	
1	1	1	57074	62273A	Ivanpah 1	Ivanpah Solar - Unit 1	Ivanpah - Unit 1	270,941	260,066	10,875	4.01%	Solar Thermal Electric	SUN	Solar	
1	1	1	57331	60848A	Mojave Solar Project	Mojave Solar Project - Alpha	Mojave Solar Project - Mojave Solar Project - Alpha	558,414	532,028	26,386	4.73%	Solar Thermal Electric	SUN	Solar	
1	1	1	54626	60695A	Mt Poso Cogeneration	Mt. Poso Cogeneration Company, LLC	Mt. Poso Cogeneration Facility - MTNPOS_1_UNIT	289,509	273,782	15,727	5.43%	Biomass	WDS	Biomass & biowaste	
1	1	1	58571	63027A	Tucannon River Wind Farm	Tucannon River Wind Farm	Tucannon River Wind Farm - Tucannon River 1	941,731	891,963	49,768	5.28%	Wind	WND	Wind	
1	1	1	50129	60161A	Indian Valley Dam Hydro Project	Indian Vly Hydro Elec Ptm.	Indian Valley Hydro - Indian Valley Hydro			975	6.643	Small Hydroelectric	WAT	Eligible hydro	
1	1	1	50129	60161A	Indian Valley Dam Hydro Project	Indian Vly Hydro Elec Ptm.	Indian Valley Hydro - Indian Valley Hydro	9,619	1	9,618	99.99%	Small Hydroelectric	WAT	Eligible hydro	
1	1	1	56485	63056A	Biglow Canyon Wind Farm	Biglow Canyon Wind Farm Phase 3	Biglow Canyon Wind Farm - Biglow Canyon 3			21,991			Wind	WND	Wind
1	1	1	56485	63055A	Biglow Canyon Wind Farm	Biglow Canyon Wind Farm Phase 2	Biglow Canyon Wind Farm - Biglow Phase 2			29,822			Wind	WND	Wind
1	1	1	57695	61698A	Topaz Solar Farm	Topaz Solar Farms LLC	Topaz Solar Farms LLC - Topaz 10-16	1,152,089	1,100,276	51,813	4.50%	Photovoltaic	SUN	Solar	
1	1	1	57695	61698A	Topaz Solar Farm	Topaz Solar Farms LLC	Topaz Solar Farms LLC - Topaz 1-9			48,739			Photovoltaic	SUN	Solar
1	1	1	58430	60837A	Centinela Solar Energy	Centinela Solar Energy	Centinela Solar Energy - CSE - Block 1F	1,282,716	1,198,704	84,012	6.55%	Photovoltaic	SUN	Solar	
1	1	1	58430	60837A	Centinela Solar Energy	Centinela Solar Energy	Centinela Solar Energy - CSE - Block 1G			975			Photovoltaic	SUN	Solar
1	1	1	58430	60837A	Centinela Solar Energy	Centinela Solar Energy	Centinela Solar Energy - CSE - Block 1G			13,277			Photovoltaic	SUN	Solar
1	1	1	58430	60837A	Centinela Solar Energy	Centinela Solar Energy	Centinela Solar Energy - CSE - Block 1A, 1B, & 1C			4,437			Photovoltaic	SUN	Solar
1	1	1	58430	60837A	Centinela Solar Energy	Centinela Solar Energy	Centinela Solar Energy - CSE - Blocks 1A, 1B, & 1C			15,373			Photovoltaic	SUN	Solar
1	1	1	58430	60837A	Centinela Solar Energy	Centinela Solar Energy	Centinela Solar Energy - CSE - Blocks 1D & 1E			13,652			Photovoltaic	SUN	Solar
1	1	1	3888		Wanapum	Mid-C Hydro - Wanapum (Grant County PUD)	Mid-C Hydro - Wanapum (Grant County PUD)	498,995	451,281	47,714	9.56%		WAT	Large hydro	
1	1	1	3888		Wanapum	Mid-C Hydro - Wanapum (Grant County PUD)	Mid-C Hydro - Wanapum (Grant County PUD)			7,772				WAT	Large hydro
1	1	1	3883		Rocky Reach	Mid-C Hydro - Rocky Reach 3883 (Chelan County PUD)	Mid-C Hydro - Rocky Reach 3883 (Chelan County PUD)	5,131,315	5,094,742	36,573	0.71%		WAT	Large hydro	
1	1	1	6200		Rock Island	Mid-C Hydro - Rock Island (Chelan County PUD)	Mid-C Hydro - Rock Island (Chelan County PUD)	5,896,167	5,885,568	10,600	0.18%		WAT	Large hydro	
1	1	1	3886		Wells	Mid-C Hydro - Wells (Douglas County PUD)	Mid-C Hydro - Wells (Douglas County PUD)	2,500,454	2,489,855	10,600	0.42%		WAT	Large hydro	
1	1	1	217		Bulch 1	Bulch #1 PH	Bulch #1 PH	4,377,027	4,261,778	115,249	4.00%		WAT	Large hydro	
1	1	1	218		Bulch 2	Bulch #2 PH	Bulch #2 PH	45,723	45,573	150	0.33%		WAT	Large hydro	
1	1	1	219		Belden	Belden	Belden	251,778	250,795	983	0.39%		WAT	Large hydro	
1	1	1	220		Bucks Creek	Bucks Creek	Bucks Creek	247,400	245,985	1,415	0.57%		WAT	Large hydro	
1	1	1	221		Butt Valley	Butt Valley	Butt Valley	36,984	36,983	1	0.00%		WAT	Large hydro	
1	1	1	222		Caribou 1	Caribou 1	Caribou 1	108,675	108,094	581	0.53%		WAT	Large hydro	
1	1	1	223		Caribou 2	Caribou 2	Caribou 2	97,375	96,824	551	0.57%		WAT	Large hydro	
1	1	1	231		Cresta	Cresta	Cresta	344,554	342,556	1,998	0.53%		WAT	Large hydro	
1	1	1	235		Drum 1	Drum #1	Drum #1	162,870	162,313	557	0.34%		WAT	Large hydro	
1	1	1	236		Drum 2	Drum #2	Drum #2	16,260	16,164	96	0.59%		WAT	Large hydro	
1	1	1	239		Electra	Electra	Electra	216,026	215,263	763	0.35%		WAT	Large hydro	
1	1	1	240		Haas	Haas	Haas	286,159	285,002	1,157	0.40%		WAT	Large hydro	
1	1	1	249		James B Block	James B Block	James B Block	204,472	203,460	1,012	0.50%		WAT	Large hydro	
1	1	1	682		Kerschhoff 2	Kerschhoff #2 PH	Kerschhoff #2 PH	449,611	447,893	1,718	0.38%		WAT	Large hydro	
1	1	1	254		Kings River PH	Kings	Kings	252,501	251,791	710	0.28%		WAT	Large hydro	
1	1	1	265		Pit 1	Pit 1	Pit 1	70,752	70,474	278	0.39%		WAT	Large hydro	
1	1	1	266		Pit 3	Pit 3	Pit 3	198,667	198,001	666	0.34%		WAT	Large hydro	
1	1	1	267		Pit 4	Pit 4	Pit 4	260,845	260,081	764	0.29%		WAT	Large hydro	
1	1	1	268		Pit 5	Pit 5	Pit 5	330,935	329,750	1,185	0.36%		WAT	Large hydro	
1	1	1	269		Pit 6	Pit 6	Pit 6	547,242	545,313	1,929	0.35%		WAT	Large hydro	
1	1	1	270		Pit 7	Pit 7	Pit 7	155,137	154,464	673	0.34%		WAT	Large hydro	
1	1	1	272		Poe	Poe	Poe	314,550	313,455	1,095	0.35%		WAT	Large hydro	
1	1	1	275		Rock Creek	Rock Creek	Rock Creek	236,234	235,291	943	0.40%		WAT	Large hydro	
1	1	1	279		Salt Springs	Salt Springs	Salt Springs	302,018	300,949	1,069	0.35%		WAT	Large hydro	
1	1	1	285		Stanišlaus	Stanišlaus	Stanišlaus	109,102	108,470	632	0.58%		WAT	Large hydro	
1	1	1	287		Tiger Creek	Tiger Creek	Tiger Creek	240,725	239,752	973	0.40%		WAT	Large hydro	
1	1	1	417		Forbestown	Forbestown	Forbestown	235,237	233,888	1,349	0.57%		WAT	Large hydro	
1	1	1	419		Woodleaf	Woodleaf	Woodleaf	51,550	51,340	210	0.41%		WAT	Large hydro	
1	1	1	412		Chicago Park	ND-Chicago Park	ND-Chicago Park	96,397	95,915	482	0.50%		WAT	Large hydro	
TOTALS								29,230,077	28,662,086	567,991	1.94%				

Appendix B. Sample of Purchases VCE used to Prepare Schedule 1

Contract	Total MWh on Invoice	VCEA MWh from Invoice	Energy Delivery Term	Invoice or PO#	PCC1/2 Resource	Resource MWh		Match T/F	Remaining MWh	Notes
						VCEA PCL Total	Sum			
0220 SDGE.pdf	5,229	5,229	February 2020	156307	1 Centinela Solar Energy - CSE - Blocks 1A, 1B, & 1C	15,373	10,144	FALSE	5,229	VCEA confirms remaining amount
1220 SDGE.pdf	5,423	4,915	December 2020	156613	1 Centinela Solar Energy - CSE - Blocks 1A, 1B, & 1C (4,915)					
		508	December 2020	156613	1 Campo Verde Solar Project - Campo Verde Solar (508)	15,036	4,403	FALSE	10,633	VCEA confirms remaining amount
		3,895	December 2020	156613	1 Campo Verde Solar Project - Campo Verde Solar (3,895)					
0620 SDGE.pdf	5,229	1,334	June 2020	REDACTED	1 Centinela Solar Energy - CSE - Block 1F (1,334)	14,252	1,334	FALSE	12,918	VCEA confirms remaining amount
		49,154	January 2020	407663	Biglow Canyon Wind Farm - Biglow Canyon 3 (21,991) Biglow Canyon Wind Farm - Biglow Phase 2 (509) 2 Biglow Canyon Wind Farm - Biglow Phase 2 (26,654)	51,813	49,154	FALSE	2,659	VCEA confirms remaining amount
		49,768	January 2020	407663	2 Tucannon River Wind Farm - Tucannon River 1 (49,768)	49,768	49,768	TRUE	-	
0720 PG&E K674 Recs.pdf	237,000	26,386	April 2020	165639	1 Mojave Solar Project - Mojave Solar Project - Alpha (26,386)	26,386	26,386	TRUE	-	100,000 MWh of invoice went to another off-taker
		15,727	April 2020	165639	1 Mt. Poso Cogeneration Facility - MTNPOS_1_UNIT (15,727)	15,727	15,727	TRUE	-	
		84,012	April 2020	165639	Topaz Solar Farms LLC - Topaz 1-9 (48,719) 1 Topaz Solar Farms LLC - Topaz 10-16 (35,293)	84,012	84,012	TRUE	-	
		10,875	April 2020	165639	1 Ivanpah - Unit 1 Solar (9,873) and Natural Gas (1,002)	10,875	10,875	TRUE	-	
0920 SDGE.pdf	5,229	5,229	September 2020	156526	1 Centinela Solar Energy - CSE - Blocks 1D & 1E (5,229)	13,652	5,229	FALSE	8,423	VCEA confirms remaining amount
2003 Indian Valley Hydro Project.pdf	810	810	March 2020	4500110130	1 Indian Valley Hydro	9,618	9,618.936	TRUE		(1) VCEA rounded down for PCL
2006 Indian Valley Hydro Project VCEA Contract.pdf	1,306	1,306	June 2020	N/A	1 Indian Valley Hydro					
2009 Indian Valley Hydro Project VCEA Contract.pdf	1,208	1,208	September 2020	N/A	1 Indian Valley Hydro					
2010 Indian Valley Hydro Project VCEA Contract.pdf	57	57	October 2020	N/A	1 Indian Valley Hydro					
2004 Indian Valley Hydro Project.pdf	1,948	1,948	April 2020	4500110130	1 Indian Valley Hydro					
2005 Indian Valley Hydro Project.pdf	1,521	1,521	May 2020	4500110130	1 Indian Valley Hydro					
2007 Indian Valley Hydro Project VCEA Contract.pdf	1,396	1,396	July 2020	REDACTED	1 Indian Valley Hydro					
2008 Indian Valley Hydro Project VCEA Contract.pdf	1,373	1,373	August 2020	REDACTED	1 Indian Valley Hydro					
TOTALS	366,651	266,651				306,512	266,651		39,861	