

**BEFORE THE PUBLIC UTILITIES COMMISSION
OF THE STATE OF CALIFORNIA**



Order Instituting Rulemaking to Continue
Electric Integrated Resource Planning
and Related Procurement Processes.

R.20-05-003
(Filed May 7, 2020)

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**CLEANPOWERSF JUNE 3, 2024 IRP PROCUREMENT COMPLIANCE FILING
AND RESPONSE TO DATA REQUEST**

(PUBLIC VERSION)

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Dated: June 3, 2024

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(PUBLIC VERSION)

Pursuant to the “Filing Requirements Overview for June 3, 2024, IRP Procurement Compliance Filing & Data Request (May 3, 2024) (“Filing Requirements”), the City and County of San Francisco (“San Francisco”) hereby submits CleanPowerSF’s June 3, 2024 Procurement Compliance Filing and Response to Data Request (“Compliance Filing”). CleanPowerSF is the Community Choice Aggregator (“CCA”) operated by the City and County of San Francisco, through the San Francisco Public Utilities Commission (“SFPUC”).

The Compliance Filing includes CleanPowerSF’s redacted Resource Data Template Version 3 (“RDT”), Appendix A, and the additional required milestone documentation for projects that will be used to meet CleanPowerSF’s procurement obligation ordered in D.21-06-035 (Mid-Term Reliability (“MTR”) Procurement Decision) and D.23-02-040 (Supplemental MTR Procurement Decision) in Appendices B-C. Appendix D contains a confidential appendix.

In its previous compliance filings (submitted on February 1, 2021, September 1, 2021, February 1, 2022, August 1, 2022, February 1, 2023, August 1, 2023, and December 1, 2023)

CleanPowerSF provided documentation for five projects to show compliance with D.19-11-016 and eight projects that contribute to D.21-06-035 compliance. Two of the projects for D.19-11-016 were also applied to D.21-06-035. Based on the instruction for this filing, CleanPowerSF does not resubmit documentation filed in previous compliance filings.¹ CleanPowerSF includes the following “crosswalk” table identifying the milestone documents.²

CleanPowerSF IRP June 3, 2024, Crosswalk Table

Document Name	LSE Unique Contract ID	Milestone Requirement Met	Tranche	Compliance Filing Date	Location	NP Contract Validation
SFPUC_Scout_Gonzaga Power Purchase Agreement	CPSF70010	Milestone 1 – Executed Contract, Project Timeline		June 3, 2023	Executed Contract: Appendix B, page 2 Project Timeline: Appendix B, page 4	Nameplate value: Confidential Appendix B, page 3
SFPUC_Scout_Gonzaga_Executed Large Generator Interconnection Agreement	CPSF70010	Milestone 1 – Interconnection Agreement		June 3, 2023	Appendix B	
SFPUC_Scout_Gonzaga_Site Control Documents	CPSF70010	Milestone 1 - Site Control Documentation		June 3, 2023	Appendix B	
SFPUC_CCPower_Ormat_Site Control Documents	FCR_3462	Milestone 1 - Site Control Documentation	4, LLT	June 3, 2023	Appendix C, page 2	
SFPUC_NextEra_Paulesell_Construction Start Certification and NTP	CPSF50005	Milestone 2 – Evidence of Construction Commencement		Dec 1, 2023	Appendix B, page 2	

¹Filing Requirements, p. 4.

² *Id.* at p. 4 (as required, this table lists identifies all documents in prior filings relevant to MTR compliance)

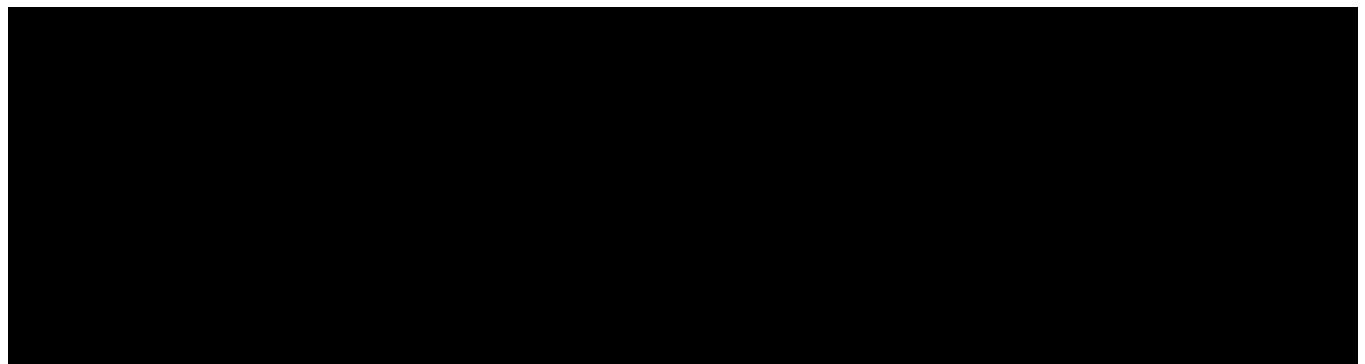
Document Name	LSE Unique Contract ID	Milestone Requirement Met	Tranche	Compliance Filing Date	Location	NP Contract Validation
SFPUC_CCPower_Tumbleweed_Certification of Construction Start and NTP	ESSA_3221	Milestone 2 – Evidence of Construction Commencement	4, LLT	Dec 1, 2023	Appendix C, page 2	
SFPUC_MSCG_ImportRA_Executed Contract	4223_C PSF_M SCG Hydro Import 20230908	Milestone 1 – Executed Contract, Milestone 3 – Evidence of Project Online		Dec 1, 2023	Executed Contract: Appendix D, page 2 Evidence of Project Online: Appendix D, page 13	Nameplate value: Confidential Appendix D, page 2
SFPUC_NextEra_Corby_Executed Energy Storage Agreement	ESSA_3942	Milestone 1 – Executed Contract, Project Timeline		Aug 1, 2023	Executed Contract: Appendix B, page 2 Timeline: Appendix B, page 3	Nameplate value: Confidential Appendix B, page 203
SFPUC_NextEra_Corby_Executed Large Generator Interconnection Agreement	ESSA_3942	Milestone 1 – Interconnection Agreement		Aug 1, 2023	Appendix B, page 105	
SFPUC_NextEra_Corby_Executed Memorandum of Option Agreement	ESSA_3942	Milestone 1 – Site Control Documentation		Aug 1, 2023	Appendix B, page 231	
SFPUC_IP_Aramis_Executed Renewable Power and Storage Purchase Agreement and three Amendments	CPSF50006	Milestone 1 – Executed Contract, Project Timeline		Aug 1, 2023	Executed Contract: Appendix C, page 2 Project Timeline: Appendix C, page 125	Nameplate value: Confidential Appendix C, page 7

Document Name	LSE Unique Contract ID	Milestone Requirement Met	Tranche	Compliance Filing Date	Location	NP Contract Validation
SFPUC_IP_Aramis_Executed Land Lease Agreement and Amendments	CPSF50006	Milestone 1 - Site Control Documentation		Aug 1, 2023	Appendix B, page 318	
SFPUC_IP_Aramis_Executed Large Generator Interconnection Agreement	CPSF50006	Milestone 1 – Interconnection Agreement		Aug 1, 2023	Appendix B, page 132	
SFPUC_NextEra_Pa ulsell_Executed Renewable Power Purchase Agreement	CPSF50005	Milestone 1 – Executed Contract, Project Timeline		Feb 1, 2023	Executed Contract: Appendix B, page 1 Project Timeline: Appendix B, page 6	Nameplate value: Confidential Appendix B, page 107
SFPUC_NextEra_Pa ulsell_Executed Small Generator Interconnection Agreement	CPSF50005	Milestone 1 – Interconnection Agreement		Feb 1, 2023	Appendix B, page 8	
SFPUC_NextEra_Pa ulsell_Executed Memorandum of Ground Lease	CPSF50005	Milestone 1 - Site Control Documentation		Feb 1, 2023	Appendix B, page 91	
SFPUC_CCPower_Tumbleweed_Executed Energy Storage Service Agreement	ESSA_3221	Milestone 1 – Executed Contract, Project Timeline	4, LLT	Feb 1, 2023	Executed Contract: Appendix C, page 2 Project Timeline: Appendix C, page 3	Namplate value: Confidential Appendix C, page 135
SFPUC_CCPower_Tumbleweed_Executed Large Generator Interconnection Agreement	ESSA_3221	Milestone 1 – Interconnection Agreement	4 ,LLT	Feb 1, 2023	Appendix C, page 203	

Document Name	LSE Unique Contract ID	Milestone Requirement Met	Tranche	Compliance Filing Date	Location	NP Contract Validation
SFPUC_CCPower_Tumbleweed_Grant Deed	ESSA_3 221	Milestone 1 - Site Control Documentation	4 ,LLT	Feb 1, 2023	Appendix C, page 207	
SFPUC_CCPower_Goal Line_Executed Energy Storage Service Agreement	ESSA_3 242	Milestone 1 – Executed Contract, Project Timeline		Feb 1, 2023	Executed Contract: Appendix D, page 2 Project Timeline: Appendix D, page 3	Nameplate value: Confidential Appendix D, page 3
SFPUC_CCPower_Goal Line_Grant Deed	ESSA_3 242	Milestone 1 - Site Control Documentation		Feb 1, 2023	Appendix D, page 198	
SFPUC_CCPower_Fish Lake_Executed Renewable Power Purchase Agreement	FCR_34 82	Milestone 1 – Executed Contract, Project Timeline		Feb 1, 2023	Executed Contract: Appendix E, page 2 Project Timeline: Appendix E, page 3	Nameplate value: Confidential Appendix E, page 3
SFPUC_CCPower_Fish Lake_Geothermal Lease Record Title	FCR_34 82	Milestone 1 - Site Control Documentation		Feb 1, 2023	Appendix E, page 236	
SFPUC_CCPower_Fish Lake_Executed Small Generator Interconnection Agreement	FCR_34 82	Milestone 1 – Interconnection Agreement		Feb 1, 2023	Appendix E, page 183	
SFPUC_CCPower_Ormat_Executed Renewable Power Purchase Agreement	FCR_34 62	Milestone 1 – Executed Contract	4, LLT	Feb 1, 2023	Executed Contract: Appendix F, page 2	Nameplate value: Confidential Appendix F, page 2
SFPUC_CCPower_Ormat_Power Purchase Agreement Progress Reports	FCR_34 62	Milestone 1 - Project Timeline	4, LLT	Feb 1, 2023	Appendix F, page 198	

Document Name	LSE Unique Contract ID	Milestone Requirement Met	Tranche	Compliance Filing Date	Location	NP Contract Validation
SFPUC_CCPower_Ormat_Executed Large Generator Interconnection Agreement	FCR_3462	Milestone 1 – Interconnection Agreement	4, LLT	Feb 1, 2023	Appendix F, page 199	
SFPUC_CCPower_Ormat_Executed Geothermal Lease and Agreement	FCR_3462	Milestone 1 - Site Control Documentation	4, LLT	Feb 1, 2023	Appendix F, page 308	
SFPUC_EDF_Maverick_Commercial Operation Certificate (Storage)	CPSF50004/CP SF5000 4-BAT	Milestone 3 – Evidence of Project Online (partial)	1, 2	Aug 1, 2022	Appendix B, page 2	
SFPUC_EDF_Maverick_Commercial Operation Certificate	CPSF50004/CP SF5000 4-BAT	Milestone 3 – Evidence of Project Online (partial)	1, 2	Feb 1, 2022	Appendix D, page 2	
SFPUC_EDF_Maverick_Construction Notice to Proceed	CPSF50004/CP SF5000 4-BAT	Milestone 2 – Evidence of Construction Commencement	1, 2	Sep 1, 2021	Appendix D, page 2	
SFPUC_NextEra_BlytheSolarIV_Commercial Operation Certificate	CPSF50003/CP SF5000 3-BAT	Milestone 3 – Evidence of Project Online	2	Feb 1, 2021	Appendix B, page 3	
SFPUC_NextEra_BlytheSolarIV_Renewable Power Purchase Agreement	CPSF50003/CP SF5000 3-BAT	Milestone 1 – Executed Contract	2	Feb 1, 2021	Appendix B, page 5	Nameplate value: Confidential Appendix B, page 9
SFPUC_NextEra_BlytheSolarIV_Facility Description and Site Drawings	CPSF50003/CP SF5000 3-BAT	Milestone 1 - Site Control Documentation	2	Feb 1, 2021	Appendix B, page 62	
SFPUC_NextEra_BlytheSolarIV_Project Timeline	CPSF50003/CP SF5000 3-BAT	Milestone 1 - Project Timeline	2	Feb 1, 2021	Appendix B, page 9	

Document Name	LSE Unique Contract ID	Milestone Requirement Met	Tranche	Compliance Filing Date	Location	NP Contract Validation
SFPUC_EDF_Maverick_Land Use Management Plan	CPSF50004/CP SF50004-BAT	Milestone 1 - Site Control Documentation	1, 2	Feb 1, 2021	https://eplanning.blm.gov/public_projects/nepa/65699/79579/92204/Desert_Harvest_ROD.pdf page 1	
SFPUC_EDF_Maverick_Executed Large Generator Interconnection Agreement	CPSF50004/CP SF50004-BAT	Milestone 1 – Interconnection Agreement	1, 2	Feb 1, 2021	https://elibrary.ferc.gov/eLibrary/filelist?document_id=14660667&optimized=false see document entitled "FERC GENERATED TARIFF FILING.RTF" page 1	
SFPUC_EDF_Maverick_Renewable Power Purchase and Storage Tolling Agreement	CPSF50004/CP SF50004-BAT	Milestone 1 – Executed Contract	1, 2	Feb 1, 2021	Appendix E, page 2	Nameplate value: Confidential Appendix E, page 29
SFPUC_EDF_Maverick_Project Timeline	CPSF50004/CP SF50004-BAT	Milestone 1 - Project Timeline	1, 2	Feb 1, 2021	Appendix F, page 2	





Dated: June 3, 2024

Respectfully submitted,

DAVID CHIU
City Attorney
THERESA L. MUELLER
Chief Energy and Telecommunications Deputy
WILLIAM ROSTOV
Deputy City Attorney

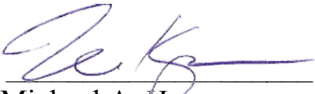
By: /s/ William Rostov
WILLIAM ROSTOV

Attorneys for
CITY AND COUNTY OF SAN FRANCISCO

VERIFICATION

I, Michael A. Hyams, am Director of CleanPowerSF, and am authorized to make this Verification on its behalf. I declare under penalty of perjury that the statements in the foregoing CleanPowerSF June 3, 2024 IRP Procurement Compliance Filing and Response to Data Request are true of my own knowledge, except as to matters which are therein stated on information or belief, and as to those matters I believe them to be true.

Executed on June 3, 2024, at San Anselmo, California.

By: 
Michael A. Hyams
Director, CleanPowerSF
San Francisco Public Utilities Commission
525 Golden Gate Avenue, 7th Floor
San Francisco, CA 94102
Email: mhyams@sfwater.org



San Francisco
Water
Power
Sewer

Services of the San Francisco
Public Utilities Commission

The CleanPowerSF logo, featuring the words "CleanPower" in green and "SF" in blue, with a thin, multi-colored arc above the text.

CleanPowerSF

Appendix A

CleanPowerSF Resource Data Template
Version 3

(PUBLIC VERSION)

Redacted based on Motion of CleanPowerSF
for Leave to File Under Seal Confidential Information
Filed on June 3, 2024

ReleaseVersion	rdtv3_4_4
ReleaseDate	5/24/2024
User Guide	https://www.cpuc.ca.gov/industries-and-topics/electrical-energy/electric-power-procurement/long-term-procurement-planning/more-information-on-authorizing-procurement/irp-procurement-track

In order to run the macro hit button above; however, LSEs must FIRST enable macros. Then, they are instructed to complete the RDT data entry fully, then push the button on the README tab.

ReleaseVersion	ReleaseDate	ID	Note
RDTv3 beta	6/6/2022		
RDTv3 Release	6/15/2022 v3_1_1		
RDTv3 Updated	6/20/2022 v3_1_2		Minor updates to column names
RDTv3 Updated	7/15/2022 v3_1_3		Reliability tabs updates & some minor updates to the resource tab 1) RDTv3.misc: updated with all ELCC % values and added MRN/TRN ratios 2) RDTv3.Reliability: added formulas to pull MRN/TRN ratios from the "misc" worksheet; updated formatting for cells H23:J50 and L23:P50 (previously greyed out since results weren't available for those years) 3) RDTv3.Calcs: updated formulas in columns S:T so that battery contracts with durations greater than or equal to 9 hours will get "8hr_batteries" ELCC%; updated formulas in columns S:T and added formulas in column Y so that battery contracts with durations less than 4 hours will get ("4hr_batteries" ELCC%) * (contract duration) / 4hr
RDTv3 Updated	7/29/2022 v3_2_1		1) RDTv3.resources: updated to include several new resource IDs, remove duplicates, adjust how baseline hybrid/paired resources are characterized, and update some project-specific information 2) RDTv3.btm_pv_forecast: Added an additional LSE 3) RDTv3.ReportSheet: new macro generated error flag. Rows with invalid buying_energy_capacity and csp_resource_category; flags contracts with non-storage CSP resources is marked as CapacityOnly and is marked as CSP.
RDTv3 Updated	8/23/2022 v3_2_2		4) "ReportSheet" tab: summation now includes contracts that are both "Buy" and "Owned" 1) corrects made to macro 2) fixes the ELCC type issues for a few generic resources
RDTv3 Updated	9/23/2022 v3_2_3		1) corrections made to the "CSPReportSheet"
RDTv3 Updated	10/11/2022 v3_2_4		1) Added mtr_nqc_validation_tool sheet 2) Added mtr_nqc_summary sheet 3) Added and updated unique_contracts sheet's mtr_tranche_NQC fields to reflect supplemental MTR obligations
RDTv3 Updated	6/26/2023 v3_3_1		4) Further corrections made to the "CSPReportSheet" 1) Corrections mtr_nqc_validation_tool 2) Corrections made to macros
RDTv3 Updated	7/14/2023 v3_3_2		3) Removed duplicate value from resource.resource
RDTv3 Updated	7/18/2023 v3_3_3		Fixes to #ref errors in mtr_nqc_validation_tool sheet
RDTv3 Updated	7/25/2023 v3_3_4		Fixes to unique_contracts data validation, check_d2106035_tranche macro module, and elcc_vals table.
RDTv3 Updated	7/26/2023 v3_3_5		Disabled the mtr_heuristic_check from the NQC calculation of the mtr_nqc_validation_tool. 1) Added dropdown menu to project_interconnection_position. 2) protection added to unique_contracts column headers and unused columns.
RDTv3 Updated	11/1/2023 v3_3_6		3) MACRO: improvements to get_unique_contracts_data module.
RDTv3 Updated	11/8/2023 v3_3_7		1) RDTv3.resources: updated to include several new resource IDs and update some project-specific information 1) Macro: minor correction to ReportSheet column text 2) RDTv3.unique_contracts: a) Cell protection now allows users to make formatting changes b) viability_financing_sitecontrol: entry of "0" replaces the previous "NA" option
RDTv3 draft	4/22/2024 v3_4_1		3) RDTv3.mtr_nqc_validation_tool: a) Diablo Canyon NQC Tool Addition
RDTv3 Updated	5/2/2024 v3_4_2		1) RDTv3.mtr_nqc_validation_tool: release of Diablo Canyon NQC Tool Addition 2) RDTv3.resources: updated to include several new resource IDs and update some project-specific information.
RDTv3 Updated	5/20/2024 v3_4_3		1) Correction to RDTv3.mtr_nqc_validation_tool field: calculated_nqc_non_hybrid 2) RDTv3.misc: removed sheet protection to allow macro to run queue refresh; fixed formula error. 1) RDTv3.mtr_nqc_validation_tool formulas revised: a) dcr_required_energy_battery : now calculated as [dcr_battery_nqc] * 365 * 5 for applicable contracts. b) dcr_battery_nqc : Now correctly differentiates between hybrid/nonhybrid and multiplies by [%_nameplate/tranche_hybrid_storage] or [%_nameplate/tranche_non_hybrid] accordingly. c) calculated_nqc_non_hybrid , calculated_nqc_hybrid_gen , and calculated_nqc_hybrid_storage : Removed condition restricting contracts with DCR tranches from being calculated using MTR general NQC methodology.
RDTv3 Updated	5/24/2024 v3_4_4		2) RDTv3.mtr_nqc_summary formulas revised: a) Calculated NQC (general including DCR) : No longer adds values from Calculated DCR NQC field. Instead, sum includes MTR general NQC calculation of DCR contracts in values.

[illegible]

[illegible]

[illegible]

lse_unique_contract_id	resource	alternative_resource_name	contract_status	project_interconnection_position
CPSF50002	BGSKYN_2_ASPSR2	San Pablo Raceway Solar	Online	1208
CPSF50003	DRACKR_2_DS4SR4	Blythe Solar IV Energy Center-Solar	Online	294
CPSF50003-BAT	DRACKR_2_DSUBT4	Blythe Solar IV Energy Center-Storage	Online	294
CPSF70006	TEHAPI_2_PW1WD1	Voyager IV Wind Expansion	Online	119
CPSF70009	ESTWND_2_OPPWD1	Oasis Power Partners	Online	119
CPSF50004	ALMASL_2_GS6SR6	Maverick Solar 6-Solar	Online	1428
CPSF50004-BAT	ALMASL_2_AL6BT6	Maverick Solar 6-Storage	Online	1428
CPSF50005	ERIC_CENTRAL_VALLEY_NORTH_LOS_BA	Paulsell Solar Energy Center	Online	1350
ESSA_3221	TUMBWD_2_WISBT4	Tumbleweed Energy Storage	Development	1217
ESSA_3221	TUMBWD_2_WISBT4	Tumbleweed Energy Storage	Development	1217
ESSA_3242	_NEW_GENERIC_BATTERY_STORAGE	Goal Line	Development	1832
FCR_3482	_NEW_GENERIC_GEOTHERMAL	Fish Lake Geothermal, LLC	Development	geothermal_import_planned

FCR_3462	_NEW_GENERIC_GEOTHERMAL	Ormat Geothermal Portfolio	Development	geothermal_caiso_planned
FCR_3462	_NEW_GENERIC_GEOTHERMAL	Ormat Geothermal Portfolio	Development	geothermal_caiso_planned
ESSA_3942	_NEW_GENERIC_BATTERY_STORAGE	Corby Energy Storage	Development	1270
CPSF50006	_NEW_GENERIC_SOLAR_1AXIS	Aramis	Development	1349
4223_CPSF_MSCG	_BRANCH_GENERIC_NOB_ITC	MSCG Import RA	Development	hydro_import_existing

CPSF70010

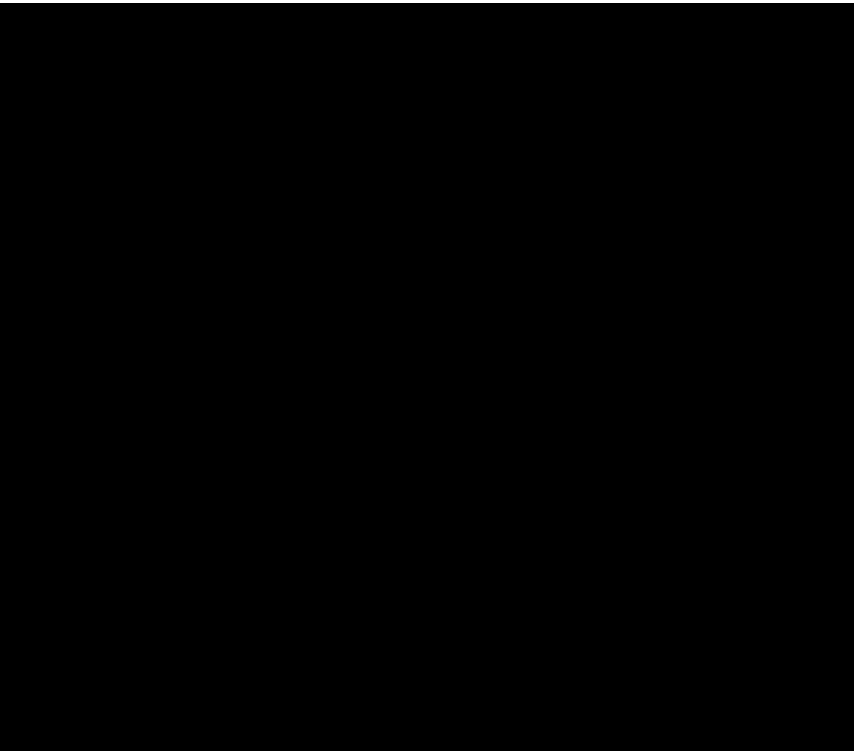
_NEW_GENERIC_WIND

GONZAGA RIDGE WIND FARM

Development

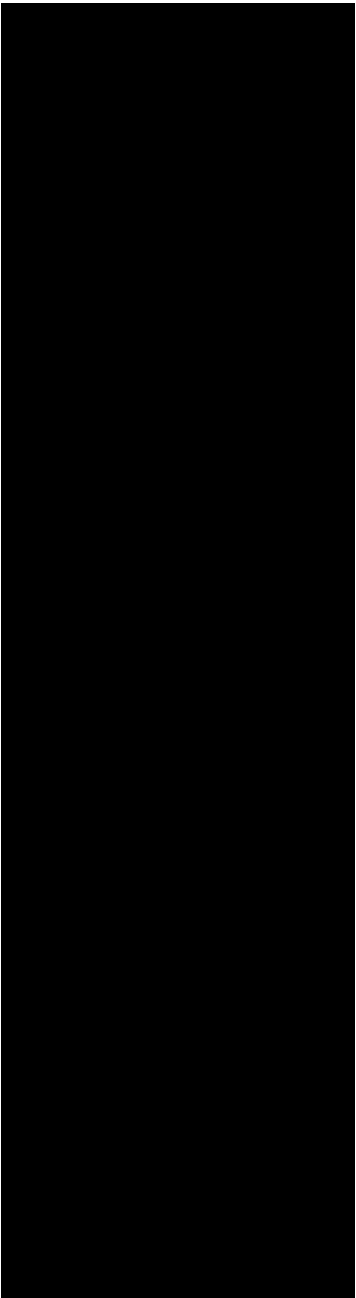
1378, 1718

interconnection_substation	marginal_addition	marginal_addition_to	total_nameplate_capacity	contracted_nameplate_capacity	sep_contracted_mw_nqc
Big Sky Substation	NA		100	100	
Colorado River 230kV Substation	NA		63	63	
Colorado River 230kV Substation	Yes	DRACKR_2_DS4SR4	47	47	
Vincent 230 kV Substation	NA		50	47	
Vincent 230 kV Substation	NA		60	57	
Red Bluff 220 kV Substation	NA		100	100	
Red Bluff 220 kV Substation	Yes	ALMASL_2_GS6SR6	50	50	
Crow Creek 60 kV Substation	NA		35	35	
Whirlwind Substation 230 kV	NA		75	12.05	
Whirlwind Substation 230 kV	NA		75	12.05	
Esco Substation 69 kV	NA		50	11	
NV Energy Silver Peak / CAISO delivery at MONAIPDC_ITC	NA		13	2	



125

17



125

17

Vaca-Dixon Substation 230 kV

NA

300

75

230 kV Cayetano Substation

NA

150

150

CAISO Delivery at NOB

NA

20

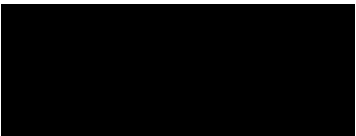
20

Los Banos Substation 70kV

NA

148

148



contract_gwh_annual	is_hybrid_paired	can_charge_from_grid	total_generator_mw	contracted_generator_mw
290.83	NotHybrid			
192.78	ExistingSolarExistingStorage	Yes	62.5	62.5
0.00	ExistingSolarExistingStorage	Yes	62.5	62.5
175.55	NotHybrid			
211.29	NotHybrid			
319.43	ExistingSolarExistingStorage	YES	100	100
0.00	ExistingSolarExistingStorage	YES	100	100
76.78	ExistingSolarExistingStorage	YES	20	20
0.00	NotHybrid			
0.00	NotHybrid			
0.00	NotHybrid			
16	NotHybrid			

179

NotHybrid

179

NotHybrid

0

NotHybrid

YES

180

NewSolarNewStorage

YES

75

75

0

NotHybrid



NotHybrid

total_storage_mw	contracted_storage_mw	solar_technology_sub_type	storage_technology_sub_type	total_storage_depth_mwh
------------------	-----------------------	---------------------------	-----------------------------	-------------------------

1Axis

47	47	1Axis	Li	188
----	----	-------	----	-----

47	47	1Axis	Li	188
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50	50	1Axis	Li	200
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50	50	1Axis	Li	200
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15	15	1Axis	Li	60
			Li	600
			Li	600
			Li	400

75

75

1Axis

Li

1200

Li

300

contracted_storage_depth_mwh	viability_cod_reasonableness	viability_technical_feasibility	viability_financing_sitecontrol	resource_mix	d1911016_vamo_ghgfree	buy_sell_own
						Buy
188				[solar, 62.5][battery, 47]		Buy
188				[solar, 62.5][battery, 47]		Buy
						Buy
				[wind, 60.3]		Buy
200				[solar, 100][battery, 50]		Buy
200				[solar, 100][battery, 50]		Buy
60	4	3	5	[solar, 20][battery, 15]		Buy
96.36	4	3	5			Buy
96.36	4	3	5			Buy
86	4	3	0			Buy
			4			Buy

	2	2	5		Buy
	2	2	5		Buy
300	4	3	5		Buy
300	4	3	2	[solar, 75][battery, 75]	Buy
				[hydro, 20]	Buy

4

2

3

[wind, 147.5]

Buy

counterparty	generator_supplier	developer_name	capacity_area	capacity_sub_area	cpuc_approval_ref
non-LSE supplier	sPower	sPower	BigCreekVentura	No_sub_area	
non-LSE supplier	NextERA	NextERA	SCE	No_sub_area	
non-LSE supplier	NextERA	NextERA	SCE	No_sub_area	
non-LSE supplier	TGP_Energy_Management_LLC	TGP_Energy_Management_LLC	SCE	No_sub_area	
non-LSE supplier	TGP_Energy_Management_LLC	TGP_Energy_Management_LLC	SCE	No_sub_area	
non-LSE supplier	EDF_Trading_North_America_LLC	EDF_Trading_North_America_LLC	SCE	No_sub_area	
non-LSE supplier	EDF_Trading_North_America_LLC	EDF_Trading_North_America_LLC	SCE	No_sub_area	
non-LSE supplier	NextERA	NextERA	Stockton	No_sub_area	
non-LSE supplier	LS Power/REV Renewables	REV_Renewables	SCE	No_sub_area	
non-LSE supplier	LS Power/REV Renewables	REV_Renewables	SCE	No_sub_area	
non-LSE supplier	Onward_Energy	ONWARD	SanDiegoImperialValley 1 Diego/Imperial Valley San Diego		
non-LSE supplier	Open_Mountain_Energy	Open_Mountain_Energy	NEVP	No_sub_area	

non-LSE supplier

Ormat

Ormat

No_sub_area

non-LSE supplier

Ormat

Ormat

No_sub_area

non-LSE supplier

NextERA

NextERA

PacGE

No_sub_area

non-LSE supplier

Intersect Power

Intersect Power

PacGE

No_sub_area

non-LSE supplier

Morgan Stanley

Morgan Stanley

No_sub_area

non-LSE supplier

SCOUT_CLEAN_Energy

Scout Clean Energy

PacGE

No_sub_area

county	COD_year	COD_month	COD_day	contract_start_date_year	contract_start_date_month	contract_start_date_day	contract_end_date_year
LosAngelesCounty	2019	8	2	2019	7	1	2041
RiversideCounty	2020	9	11	2020	7	1	2040
RiversideCounty	2022	10	1	2022	10	1	2040
KernCounty	2021	3	30	2021	3	8	2036
KernCounty	2021	10	12	2021	9	1	2036
RiversideCounty	2021	12	1	2021	11	1	2041
RiversideCounty	2021	12	1	2021	11	1	2041
StanislausCounty	2024	8	1	2024	8	1	2044
KernCounty	2026	4	15	2026	4	15	2041
KernCounty	2026	4	15	2026	4	15	2041
SanDiegoCounty							
Nevada							

SolanoCounty

AlamedaCounty

2026

12

31

2026

12

1

2051

2024

5

1

2024

5

1

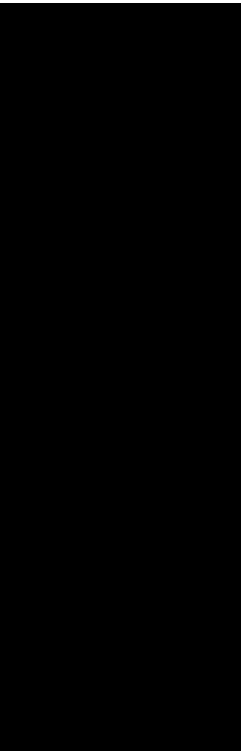
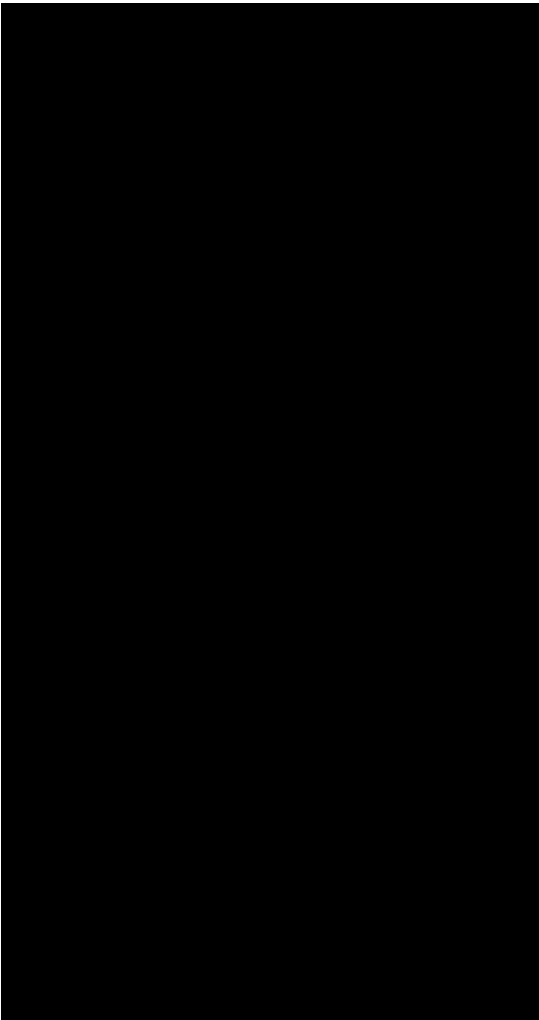
2024

NA

NA

MercedCounty	2026	5	31	2026	5	31	2046
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contract_end_date_month	contract_end_date_day	contract_execution_date_year	contract_execution_date_month	contract_execution_date_day	tx_upgrades	tx_upgrade_date_year
8	1	2018	5	7		
9	10	2019	7	9		
9	10	2019	7	9		
3	29	2018	5	7		
10	11	2020	4	16		
11	30	2020	7	22		
11	30	2020	7	22		
7	31	2020	7	22		
4	14	2022	1	24	NO	
4	14	2022	1	24	NO	
		2022	3	1	NO	
		2022	5	31	NO	



2022 5 31 YES

2022 5 31 YES

2023 4 17 YES 2027

12 31

2020 11 20

10 31

2023 9 8

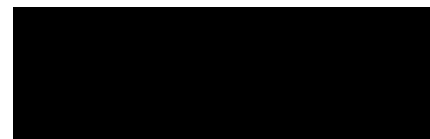
5

31

2024

2

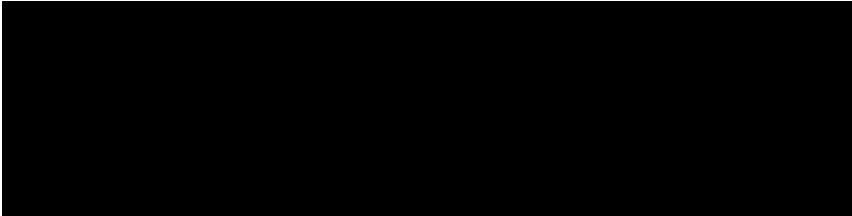
9



tx_upgrade_date_month	tx_upgrade_date_day	tx_upgrade_description	d1911016_tranche	d2106035_procurement_cat	mtr_tranche1_NQC	mtr_tranche2_NQC
-----------------------	---------------------	------------------------	------------------	--------------------------	------------------	------------------

1

NA



1

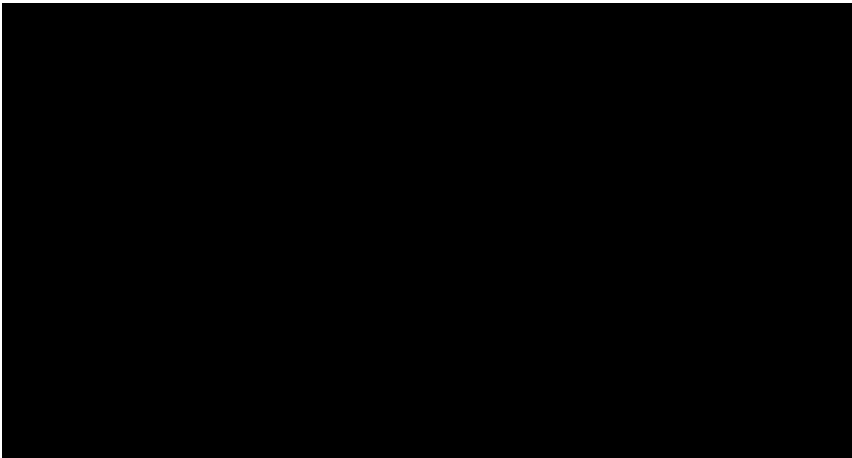
1

1&2

NA

2

NA



2&3

2&3

NA
NA
NA
NA

NA

firm_ZE



NA

general

NA

firm_ZE



2

1

Vaca Dixon 230 kv; Contra Cos

NA

NA



NA



1.893

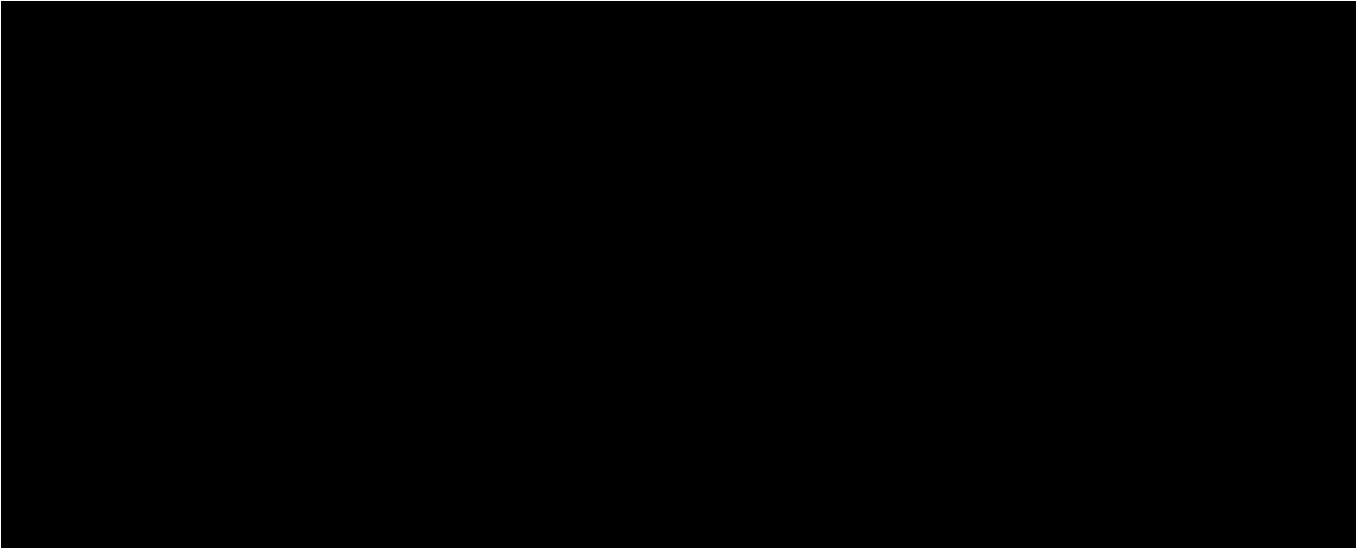
2026

2

14.248

2026

2



2026

6

2025

12



previous_COD_day	remediation_plan	signed_contract	notice_to_proceed	public_contract	buying_energy_capacity	NQC_reporting_source
30		YES	YES	YES	EnergyCapacity	Calculated
		YES	YES	YES	EnergyCapacity	Calculated
		YES	YES	YES	EnergyCapacity	Calculated
		YES	YES	YES	EnergyCapacity	Calculated
		YES	YES	YES	EnergyCapacity	Calculated
		YES	YES	YES	EnergyCapacity	Calculated
1		YES	YES	YES	EnergyCapacity	Calculated
		YES	YES	Yes, some contract detail	EnergyCapacity	Calculated
		YES	YES	Yes, some contract detail	EnergyCapacity	Calculated
		YES	NO	Yes, some contract detail	EnergyCapacity	Calculated
26		YES	NO	Yes, some contract detail	EnergyCapacity	Calculated

2



YES

NO

Yes, some contract detail

EnergyCapacity

Calculated

2

YES

NO

Yes, some contract detail

EnergyCapacity

Calculated

1

YES

YES

EnergyCapacity

Calculated

31

YES

YES

EnergyCapacity

Calculated

YES

YES

EnergyCapacity

Calculated



YES

NO

EnergyCapacity

Calculated

procurement_origin	csp_resource_category	csp_annual_2024	csp_annual_2026	csp_annual_2030	csp_annual_2035	macro_supertype
Renewable Energy	NA	NA	NA	NA	NA	physical
Renewable Energy	NA	NA	NA	NA	NA	physical
Renewable Energy	NA	NA	NA	NA	NA	physical
Renewable Energy	NA	NA	NA	NA	NA	physical
Renewable Energy	NA	NA	NA	NA	NA	physical
Renewable Energy	NA	NA	NA	NA	NA	physical
Renewable Energy	NA	NA	NA	NA	NA	physical
Local Renewable Energy	NA	NA	NA	NA	NA	newresolve
D2106035	NA	NA	NA	NA	NA	physical
D2106035	NA	NA	NA	NA	NA	physical
D2106035	NA	NA	NA	NA	NA	newgeneric
D2106035	Geothermal (GWh)	NA	NA	NA	NA	newgeneric

D2106035	Geothermal (GWh)	NA	NA	NA	NA	newgeneric
D2106035	Geothermal (GWh)	NA	NA	NA	NA	newgeneric
D2106035	NA	NA	NA	NA	NA	newgeneric
Renewable Energy	NA	NA	NA	NA	NA	newgeneric
D2106035	NA	NA	NA	NA	NA	unspecifiedimport

Renewable Energy

NA

NA

NA

NA

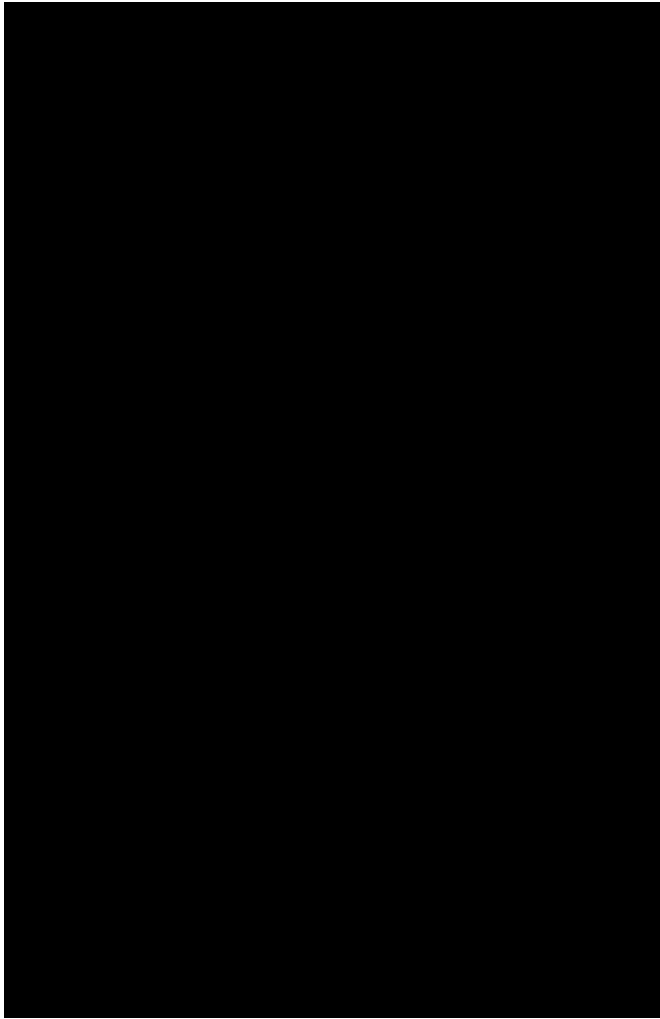
NA

newgeneric

notes

contracted_nameplate_capacity' value updated to reflect MAXGEN in
'resources' tab; however, CPSF has contracted 50.1 MW

contracted_nameplate_capacity' value updated to reflect MAXGEN in
'resources' tab; however, CPSF has contracted 60.3 MW



The agreement was amended to reflect a change in COD from 12/31/2023 to 12/31/2025 and amended a second time to reflect a change in COD from 12/31/2025 to 12/31/2026.

FCDS or replacement RA is a contractual requirement but has not been obtained to date.





contract_status	bool	yes	no	Year	int_count	transact	cap_areas	cap_sub_areas	state_county	d1911016_tranches	d2106035_tranche	energy_capacity_from_resource	is_hybrid_paired	hybrid_paired_removed_Res_T	csp_cat
Online	0	YES	NA	NA	NA	Buy	Humboldt	North Coast Eagle Rock	NA	NA	NA	EnergyCapacity	NotHybrid	NotHybrid	NA
Review	1	NO	1970	1	Sell	NorthCoastNorthBay	North Coast Fulton	AlamedaCounty	1	firm_ZE	firm_ZE	EnergyOnly	ExistingBiomassExistingStorage	Biomass Storage	Large Hydro (GWh)
PlannedExisting	NA	1971	2	Owned	Sierra	Sierra Placer	AmadorCounty	1&2	general	general	general	CapacityOnly	ExistingBiomassExistingStorage	Biomass Storage	Imported Hydro (GWh)
Development		1972	3		Stockton	Sierra Placer	AlamedaCounty	2	general_B_firm_ZE	general_B_firm_ZE	general_B_firm_ZE		ExistingGeothermalExistingStorage	Geothermal Storage	Asset Controlling Supplier (GWh)
PlannedNew		1973	4		GreaterBay	Sierra Gold Hill Drum	ButteCounty	2&3	general_B_long_duration_storage	general_B_long_duration_storage	general_B_long_duration_storage		ExistingGeothermalNewStorage	Geothermal Storage	Nuclear (GWh)
		1974	5		GreaterFresno	Stockton Lockford	CalaverasCounty	1&3	general_B_ZE_paired_dr	general_B_ZE_paired_dr	general_B_ZE_paired_dr		ExistingSolarExistingStorage	Solar Storage	Bio gas (GWh)
		1975	6		Kern	Stockton Lockford	ColusaCounty	3	long_duration_storage	long_duration_storage	long_duration_storage		ExistingSolarNewStorage	Solar Storage	Biomass (GWh)
		1976	7		BigCreekVentura	Greater Bay Llagos	ContraCostaCounty	1&2&3	long_duration_storage_B_firm_ZE	long_duration_storage_B_firm_ZE	long_duration_storage_B_firm_ZE		ExistingThermalExistingStorage	Thermal Storage	Geothermal (GWh)
		1977	8		LABasin	Greater Bay San Jose	Del NorteCounty		ZE_gen_paired_dr	ZE_gen_paired_dr	ZE_gen_paired_dr		ExistingThermalNewStorage	Thermal Storage	Small Hydro (GWh)
		1978	9		SanDiegoImperialValley	Greater Bay South Bay Moss Landing	El DoradoCounty		ZE_gen_paired_dr_B_firm_ZE	ZE_gen_paired_dr_B_firm_ZE	ZE_gen_paired_dr_B_firm_ZE		ExistingWindExistingStorage	Wind Storage	Wind Baseline California (GWh)
		1979	10		PacGE	Greater Bay Oakland	FresnoCounty		ZE_gen_paired_dr_B_long_duration_s	ZE_gen_paired_dr_B_long_duration_s	ZE_gen_paired_dr_B_long_duration_s		ExistingWindNewStorage	Wind Storage	Wind New PG&E (GWh)
		1980	11		SCE	Greater Fresno	GlennCounty						NewBiomassExistingStorage	Biomass Storage	Wind New SCE SDG&E (GWh)
		1981	12		SDGE	Greater Fresno	HumboldtCounty						NewBiomassNewStorage	Biomass Storage	Wind Pacific Northwest (GWh)
		1982	13		AVA	Greater Fresno	Hanford	ImperialCounty					NewGeothermalExistingStorage	Geothermal Storage	Wind Wyoming (GWh)
		1983	14		AVRN	Greater Fresno	Coaling	InyoCounty					NewGeothermalNewStorage	Geothermal Storage	Wind New Mexico (GWh)
		1984	15		AZPS	Greater Fresno	Borden	KernCounty					NewSolarExistingStorage	Solar Storage	Wind Offshore Mono Bay (GWh)
		1985	16		BANC	Greater Fresno	Reedley	KingsCounty					NewSolarNewStorage	Solar Storage	Wind Offshore Humboldt (GWh)
		1986	17		BPAI	Kern Westpark	LakeCounty						NewThermalExistingStorage	Thermal Storage	Solar Baseline California (GWh)
		1987	18		CHFO	Kern Kern Power	Twiss	LassenCounty					NewThermalNewStorage	Thermal Storage	Solar New PG&E (GWh)
		1988	19		CSTO	Kern Kern Oil		Los AngelesCounty					NewWindExistingStorage	Wind Storage	Solar New SCE SDG&E (GWh)
		1989	20		DBAA	Kern South Kern PP		MaderaCounty					NewWindNewStorage	Wind Storage	Solar Distributed (GWh)
		1990	21		DOPO	Ig Creek/Ventura - Vent		MarinCounty							Hybrid_or_Paired_Solar_and_Battery (GWh)
		1991	22		EPE	Creek/Ventura - Santa C		MariposaCounty							Shed DR (MWh)
		1992	23		GCPO	LA Basin Eastern		MendocinoCounty							Pumped Storage (MWh)
		1993	24		GRF	LA Basin Western		MercedCounty							Battery Storage (MWh Energy Capacity)
		1994	25		GRS	LA Basin El Nido		ModocCounty							Storage Resource Custom Profile (MWh)
		1995	26		GRMA	Iago/Imperial Valley	Sar	MonoCounty							RPS Resource Custom Profile (GWh)
		1996	27		GWA	Iago/Imperial Valley	El	MontereyCounty							GHG-free non-RPS Resource Custom Profile (GWh)
		1997	28		HGMA	Iago/Imperial Valley	B	NapaCounty							Coal (GWh)
		1998	29		ID	NA_rub_area		NevadaCounty							
		1999	30		IPCO			OrangeCounty							
		2000	31		LDWP			PlacerCounty							
		2001			NEVP			PlumasCounty							
		2002			NWMT			RiversideCounty							
		2003			PACE			SacramentoCounty							
		2004			PACW			SanBernitoCounty							
		2005			PortGE			SanBernardinoCounty							
		2006			PMA			SanDiegoCounty							
		2007			PSCO			SanFrancisco							
		2008			PSLI			SanJoaquinCounty							
		2009			SCL			SanLuisObispoCounty							
		2010			SRP			SanMateoCounty							
		2011			SWPP			SantaBarbaraCounty							
		2012			TEPC			SantaCruzCounty							
		2013			TIDC			SantaCruzCounty							
		2014			TPWR			ShastaCounty							
		2015			WACM			SierraCounty							
		2016			WALC			SiskiyouCounty							
		2017			WALW			SolanoCounty							
		2018			WWA			SonomaCounty							
		2019						StanislausCounty							
		2020						SutterCounty							
		2021						TehamaCounty							
		2022						TrinityCounty							
		2023						TulareCounty							
		2024						TuolumneCounty							
		2025						VenturaCounty							
		2026						YaleCounty							
		2027						YubaCounty							
		2028						Washington							
		2029						Oregon							
		2030						California							
		2031						Idaho							
		2032						Nevada							
		2033						Utah							
		2034						Arizona							
		2035						Colorado							
		2036						Wyoming							
		2037						Montana							
		2038						SouthDakota							
		2039						NewMexico							
		2040						Texas							
		2041						BritishColumbiaCanada							
		2042						AlbertaCanada							
		2043						BajaCaliforniaMexico							
		2044													
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		2059													
		2060													

TAHOE 10 CAPITAL
VALLEY WIDE ENERGY & CONSTRUCTION SERVICES
VC RENEWABLES
VESPER ENERGY
VISTRA
VITOL
WDG CAPITAL PARTNERS
WEST COAST WASTE COMPANY
WHITE PINE RENEWABLE
WPOWER

2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035
12%	14%	15%	11%	6%	8%	9%	8%	7%	6%	5%	4%
24%	27%	31%	21%	12%	15%	19%	17%	15%	13%	11%	9%
47%	45%	44%	38%	32%	33%	34%	33%	32%	31%	31%	30%
29%	28%	27%	23%	20%	20%	21%	20%	20%	19%	19%	18%
42%	41%	40%	34%	29%	30%	30%	30%	29%	28%	28%	27%
67%	62%	56%	56%	55%	58%	61%	55%	49%	44%	38%	32%
12%	12%	12%	10%	8%	8%	7%	7%	7%	7%	7%	6%
5%	5%	4%	5%	6%	5%	5%	5%	5%	5%	5%	6%
85%	86%	87%	85%	82%	85%	89%	79%	69%	60%	50%	40%
86%	87%	88%	85%	83%	86%	89%	81%	72%	64%	56%	47%
87%	88%	88%	86%	84%	86%	89%	82%	75%	69%	62%	55%
88%	88%	88%	86%	85%	87%	89%	84%	78%	73%	68%	62%
89%	89%	89%	87%	86%	87%	89%	85%	81%	77%	73%	70%
90%	89%	88%	87%	86%	87%	89%	86%	83%	80%	76%	73%
77%	80%	82%	77%	73%	80%	86%	72%	58%	43%	29%	14%
51%	52%	53%	52%	51%	53%	54%	52%	50%	48%	45%	43%
36%	37%	38%	38%	37%	38%	39%	37%	36%	34%	32%	31%
86%	89%	92%	92%	93%	92%	91%	92%	93%	93%	94%	95%
78%	79%	81%	82%	83%	81%	80%	82%	84%	85%	87%	88%
75%	77%	78%	79%	79%	78%	77%	78%	80%	82%	84%	86%
93%	94%	94%	94%	94%	93%	93%	93%	94%	95%	95%	96%
84%	85%	86%	87%	87%	86%	85%	86%	87%	88%	90%	91%
81%	83%	86%	84%	82%	81%	79%	80%	82%	83%	84%	85%
93%	93%	93%	93%	94%	93%	92%	93%	93%	93%	93%	93%
93%	94%	94%	94%	94%	95%	95%	93%	92%	91%	89%	88%
69%	71%	73%	72%	72%	69%	66%	69%	72%	75%	78%	81%
78%	79%	81%	80%	80%	78%	76%	78%	80%	82%	84%	87%
100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%

30MMT ELCC (%)												25MMT MRN/TRN ratio												2024	
elcc_type												2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035		
in_state_wind_south												15%	15%	15%	12%	8%	8%	8%	7%	7%	6%	6%	4%		
in_state_wind_north												30%	30%	31%	24%	17%	17%	16%	15%	13%	12%	10%	9%		
out_of_state_wind_WYID												43%	39%	38%	37%	39%	31%	24%	20%	26%	27%	29%	30%		
out_of_state_wind_WAOR												26%	24%	22%	23%	24%	19%	14%	15%	16%	17%	18%	18%		
out_of_state_wind_AZNM												38%	35%	32%	34%	35%	28%	21%	22%	24%	25%	26%	27%		
offshore_wind												55%	51%	46%	49%	51%	47%	43%	40%	38%	36%	34%	32%		
utility_pv												10%	10%	11%	10%	9%	8%	6%	6%	6%	6%	6%	6%		
btm_pv												9%	9%	10%	8%	7%	6%	5%	5%	5%	5%	5%	6%		
4hr_batteries												89%	90%	92%	85%	77%	76%	75%	68%	61%	54%	47%	40%		
5hr_batteries												89%	90%	92%	86%	80%	78%	77%	71%	65%	59%	53%	47%		
6hr_batteries												89%	91%	92%	87%	82%	81%	80%	73%	70%	65%	60%	55%		
7hr_batteries												89%	91%	93%	89%	84%	83%	82%	78%	74%	70%	66%	62%		
8hr_batteries												89%	91%	93%	90%	87%	86%	85%	82%	79%	76%	73%	70%		
pumped_storage												89%	91%	93%	91%	89%	89%	89%	86%	83%	80%	76%	73%		
demand_response												89%	91%	92%	77%	62%	61%	59%	50%	41%	32%	23%	14%		
hydro												57%	56%	56%	53%	50%	49%	48%	47%	46%	45%	44%	43%		
small_hydro												41%	40%	40%	38%	36%	35%	35%	34%	33%	32%	32%	31%		
geothermal												86%	88%	89%	91%	93%	92%	92%	93%	93%	94%	95%	95%		
biomass_wood												79%	81%	83%	83%	83%	82%	82%	83%	85%	86%	88%	89%		
biogas												76%	78%	80%	80%	79%	78%	77%	79%	81%	83%	85%	87%		
nuclear												93%	94%	95%	94%	94%	94%	93%	94%	95%	95%	96%	96%		
gas_cc												85%	86%	88%	87%	87%	86%	85%	86%	88%	89%	90%	91%		
gas_ct												80%	82%	83%	83%	82%	81%	79%	80%	81%	82%	83%	84%		
cogen												90%	92%	95%	92%	89%	89%	89%	90%	90%	91%	92%	93%		
ice												93%	90%	87%	90%	92%	92%	91%	90%	89%	88%	87%	86%		
coal												69%	72%	74%	74%	73%	71%	69%	72%	74%	77%	80%	83%		
steam												78%	80%	82%	81%	81%	79%	78%	80%	82%	84%	86%	88%		
unspecified_import												100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%		

0.77

30MMT MRN/TRN ratio

2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035
0.79	0.80	0.78	0.75	0.76	0.77	0.74	0.71	0.68	0.65	0.63

2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035
0.80	0.82	0.84	0.80	0.76	0.74	0.72	0.70	0.68	0.67	0.65	0.63

selection	elcc	elc	eligible resource type	decision	year	tranche
0hr_storage_2023_mtr_2	0.00%	storage	mtr		2023	tranche_1
0hr_storage_2024_mtr_2	0.00%	storage	mtr		2024	tranche_2
0hr_storage_2025_mtr_2_post_nov302022	0.00%	storage	mtr		2025	tranche_3
0hr_storage_2026_mtr_2_post_nov302022	0.00%	storage	mtr		2026	tranche_4
0hr_storage_2027_mtr_2	0.00%	storage	mtr		2027	tranche_5
0hr_storage_2028_mtr_2	0.00%	storage	mtr		2028	tranche_6
10hr_psh_2024_mtr_2	78.80%	psh	mtr		2024	tranche_2
10hr_psh_2025_mtr_2_post_nov302022	84.60%	psh	mtr		2025	tranche_3
10hr_psh_2026_mtr_2_post_nov302022	84.60%	psh	mtr		2026	tranche_4
10hr_psh_2027_mtr_2	87.70%	psh	mtr		2027	tranche_5
10hr_psh_2028_mtr_1_pre_nov302022	81.70%	psh	mtr		2026	tranche_4
10hr_psh_2028_mtr_2_post_nov302022	90.70%	psh	mtr		2028	tranche_6
11hr_psh_2024_mtr_2	79.80%	psh	mtr		2024	tranche_2
11hr_psh_2025_mtr_2_post_nov302022	85.60%	psh	mtr		2025	tranche_3
11hr_psh_2026_mtr_2_post_nov302022	85.60%	psh	mtr		2026	tranche_4
11hr_psh_2027_mtr_2	88.70%	psh	mtr		2027	tranche_5
11hr_psh_2028_mtr_1_pre_nov302022	81.25%	psh	mtr		2026	tranche_4
11hr_psh_2028_mtr_2_post_nov302022	91.70%	psh	mtr		2028	tranche_6
12hr_psh_2024_mtr_2	80.80%	psh	mtr		2024	tranche_2
12hr_psh_2025_mtr_2_post_nov302022	86.60%	psh	mtr		2025	tranche_3
12hr_psh_2026_mtr_1_pre_nov302022	80.80%	psh	mtr		2026	tranche_4
12hr_psh_2026_mtr_2_post_nov302022	86.60%	psh	mtr		2026	tranche_4
12hr_psh_2027_mtr_2	89.70%	psh	mtr		2027	tranche_5
12hr_psh_2028_mtr_2_post_nov302022	92.70%	psh	mtr		2028	tranche_6
1hr_storage_2023_mtr_2	0.00%	storage	mtr		2023	tranche_1
1hr_storage_2024_mtr_2	0.00%	storage	mtr		2024	tranche_2
1hr_storage_2025_mtr_2_post_nov302022	0.00%	storage	mtr		2025	tranche_3
1hr_storage_2026_mtr_2_post_nov302022	0.00%	storage	mtr		2026	tranche_4
1hr_storage_2027_mtr_2	0.00%	storage	mtr		2027	tranche_5
1hr_storage_2028_mtr_2	0.00%	storage	mtr		2028	tranche_6
2hr_storage_2023_mtr_2	0.00%	storage	mtr		2023	tranche_1
2hr_storage_2024_mtr_2	0.00%	storage	mtr		2024	tranche_2
2hr_storage_2025_mtr_2_post_nov302022	0.00%	storage	mtr		2025	tranche_3
2hr_storage_2026_mtr_2_post_nov302022	0.00%	storage	mtr		2026	tranche_4
2hr_storage_2027_mtr_2	0.00%	storage	mtr		2027	tranche_5
2hr_storage_2028_mtr_2	0.00%	storage	mtr		2028	tranche_6
3hr_storage_2023_mtr_2	0.00%	storage	mtr		2023	tranche_1
3hr_storage_2024_mtr_2	0.00%	storage	mtr		2024	tranche_2
3hr_storage_2025_mtr_2_post_nov302022	0.00%	storage	mtr		2025	tranche_3
3hr_storage_2026_mtr_2_post_nov302022	0.00%	storage	mtr		2026	tranche_4
3hr_storage_2027_mtr_2	0.00%	storage	mtr		2027	tranche_5
3hr_storage_2028_mtr_2	0.00%	storage	mtr		2028	tranche_6
4hr_storage_2023_mtr_2	96.30%	storage	mtr		2023	tranche_1
4hr_storage_2024_mtr_2	90.70%	storage	mtr		2024	tranche_2
4hr_storage_2025_mtr_1_pre_nov302022	74.20%	storage	mtr		2025	tranche_3
4hr_storage_2025_mtr_2_post_nov302022	75.10%	storage	mtr		2025	tranche_3
4hr_storage_2026_mtr_1_pre_nov302022	69.00%	storage	mtr		2026	tranche_4
4hr_storage_2026_mtr_2_post_nov302022	76.60%	storage	mtr		2026	tranche_4
4hr_storage_2027_mtr_2	74.00%	storage	mtr		2027	tranche_5
4hr_storage_2028_mtr_2	76.50%	storage	mtr		2028	tranche_6
5hr_storage_2023_mtr_2	97.15%	storage	mtr		2023	tranche_1
5hr_storage_2024_mtr_2	92.05%	storage	mtr		2024	tranche_2
5hr_storage_2025_mtr_2_post_nov302022	77.35%	storage	mtr		2025	tranche_3
5hr_storage_2026_mtr_2_post_nov302022	78.45%	storage	mtr		2026	tranche_4
5hr_storage_2027_mtr_2	77.25%	storage	mtr		2027	tranche_5
5hr_storage_2028_mtr_2	79.90%	storage	mtr		2028	tranche_6
6hr_storage_2023_mtr_2	98.00%	storage	mtr		2023	tranche_1
6hr_storage_2024_mtr_2	93.40%	storage	mtr		2024	tranche_2
6hr_storage_2025_mtr_1_pre_nov302022	79.60%	storage	mtr		2025	tranche_3
6hr_storage_2025_mtr_2_post_nov302022	79.60%	storage	mtr		2025	tranche_3
6hr_storage_2026_mtr_1_pre_nov302022	75.10%	storage	mtr		2026	tranche_4
6hr_storage_2026_mtr_2_post_nov302022	80.30%	storage	mtr		2026	tranche_4
6hr_storage_2027_mtr_2	80.50%	storage	mtr		2027	tranche_5
6hr_storage_2028_mtr_2	83.30%	storage	mtr		2028	tranche_6
7hr_storage_2023_mtr_2	98.10%	storage	mtr		2023	tranche_1
7hr_storage_2024_mtr_2	93.85%	storage	mtr		2024	tranche_2
7hr_storage_2025_mtr_2_post_nov302022	81.80%	storage	mtr		2025	tranche_3
7hr_storage_2026_mtr_2_post_nov302022	82.15%	storage	mtr		2026	tranche_4
7hr_storage_2027_mtr_2	83.80%	storage	mtr		2027	tranche_5
7hr_storage_2028_mtr_2	86.70%	storage	mtr		2028	tranche_6
8hr_psh_2024_mtr_2	76.80%	psh	mtr		2024	tranche_2
8hr_psh_2025_mtr_1_pre_nov302022	0.00%	psh	mtr		2025	tranche_3
8hr_psh_2025_mtr_2_post_nov302022	82.60%	psh	mtr		2025	tranche_3
8hr_psh_2026_mtr_1_pre_nov302022	76.80%	psh	mtr		2026	tranche_4
8hr_psh_2026_mtr_2_post_nov302022	82.60%	psh	mtr		2026	tranche_4
8hr_psh_2027_mtr_2	85.70%	psh	mtr		2027	tranche_5
8hr_psh_2028_mtr_2_post_nov302022	88.70%	psh	mtr		2028	tranche_6
8hr_storage_2023_mtr_2	96.20%	storage	mtr		2023	tranche_1
8hr_storage_2024_mtr_2	94.30%	storage	mtr		2024	tranche_2
8hr_storage_2025_mtr_1_pre_nov302022	82.20%	storage	mtr		2025	tranche_3
8hr_storage_2025_mtr_2_post_nov302022	84.00%	storage	mtr		2025	tranche_3
8hr_storage_2026_mtr_1_pre_nov302022	78.20%	storage	mtr		2026	tranche_4
8hr_storage_2026_mtr_2_post_nov302022	84.00%	storage	mtr		2026	tranche_4
8hr_storage_2027_mtr_2	87.10%	storage	mtr		2027	tranche_5
8hr_storage_2028_mtr_2	90.10%	storage	mtr		2028	tranche_6
9hr_psh_2024_mtr_2	77.80%	psh	mtr		2024	tranche_2
9hr_psh_2025_mtr_2_post_nov302022	83.60%	psh	mtr		2025	tranche_3
9hr_psh_2026_mtr_2_post_nov302022	83.60%	psh	mtr		2026	tranche_4
9hr_psh_2027_mtr_2	86.70%	psh	mtr		2027	tranche_5
9hr_psh_2028_mtr_1_pre_nov302022	79.25%	psh	mtr		2026	tranche_4
9hr_psh_2028_mtr_2_post_nov302022	89.70%	psh	mtr		2028	tranche_6
biomass_dispatchable	100.00%	biomass_dispatchable-1	ra_elcc			unspecified
cogeneration_dispatchable	100.00%	cogeneration_dispatchable-1	ra_elcc			unspecified
geothermal_dispatchable_all	100.00%	wind	ra_elcc			unspecified
geothermal_nondispatchable_2020	83.00%	geothermal	ra_elcc			unspecified
geothermal_nondispatchable_2021	87.40%	geothermal	ra_elcc			unspecified
geothermal_nondispatchable_2022	92.90%	geothermal	ra_elcc			unspecified
geothermal_nondispatchable_2023	92.80%	geothermal	ra_elcc			unspecified
hydro_2020	71.00%	hydro	ra_elcc			unspecified
hydro_2021	72.60%	hydro	ra_elcc			unspecified
hydro_2022	66.30%	hydro	ra_elcc			unspecified
hydro_2023	63.70%	hydro	ra_elcc			unspecified
loadmod_all	100.00%	demand_response	ra_elcc			unspecified
solar_2023_mtr_1	7.80%	solar	mtr		2023	tranche_1
solar_2023_mtr_2	7.80%	solar	mtr		2023	tranche_1
solar_2024_mtr_1	6.60%	solar	mtr		2024	tranche_2
solar_2024_mtr_2	6.60%	solar	mtr		2024	tranche_2
solar_2025_mtr_1_pre_nov302022	6.70%	solar	mtr		2025	tranche_3
solar_2025_mtr_2_post_nov302022	6.60%	solar	mtr		2025	tranche_3
solar_2026_mtr_1_pre_nov302022	5.70%	solar	mtr		2026	tranche_4
solar_2026_mtr_2_post_nov302022	7.00%	solar	mtr		2026	tranche_4
solar_2027_mtr_2	7.50%	solar	mtr		2027	tranche_5
solar_2028_mtr_2	8.80%	solar	mtr		2028	tranche_6
wind_ca_2023_mtr_1	13.90%	wind	mtr		2023	tranche_1
wind_ca_2023_mtr_2	13.90%	wind	mtr		2023	tranche_1
wind_ca_2024_mtr_1	16.50%	wind	mtr		2024	tranche_2
wind_ca_2024_mtr_2	16.50%	wind	mtr		2024	tranche_2
wind_ca_2025_mtr_1_pre_nov302022	22.60%	wind	mtr		2025	tranche_3
wind_ca_2025_mtr_2_post_nov302022	12.00%	wind	mtr		2025	tranche_3

Abbreviat ion		2023 (MTR Order)	2024 (MTR Order)	2025 (MTR Order)	2028 (LULI)*** (MTR Order)	Minimum zero- emitting capacity by 2025 (MTR Order)	Total (MTR Order)	2026 (Supplem ental MTR)	2027 (Supplem ental MTR)	Total (Supplem ental MTR)	By 2028 (Total MTR)	
AVCE	CCA	3	8	2	3		3	16	3	3	6	22
CCCE	CCA	51	152	38	51		63	291	55	55	111	402
CEA	CCA	7	20	5	7		8	38	14	14	27	65
COBP	CCA	3	8	2	3		3	15	-	-	-	15
CPASC	CCA	118	354	89	118		148	679	117	117	235	914
CPSF	CCA	31	93	23	31		39	179	31	31	63	242
DCE	CCA	6	18	4	6		7	34	4	4	9	43
EBCE	CCA	73	218	55	73		91	418	68	68	136	554
KCCP	CCA	0.3	1	0.3	0.3		0.4	1.9	0.4	0.4	1	3
LCE	CCA	6	19	5	6		8	37	7	7	13	50
MCE	CCA	58	173	43	58		72	332	61	61	122	454
OCPA	CCA	-	-	-	38		38	38	38	38	76	114
PALMDALE	CCA	-	-	-			6	-	6	6	12	12
PCEA	CCA	38	113	28	38		47	217	35	35	70	287
PGE	IOU	400	1,201	300	400		500	2,302	388	388	777	3,079
PGE DA	ESP	77	230	58	77		96	441	74	74	147	588
PIONEER	CCA	12	37	9	12		15	70	19	19	38	108
POMONA	CCA	5	14	3	5		6	26	4	4	7	33
PRIME	CCA	2	7	2	2		3	14	2	2	5	19
RCEA	CCA	7	20	5	7		8	38	7	7	14	52
RMEA	CCA	3	9	2	3		4	17	4	4	8	25
SBCE	CCA	2	7	2	2		3	13	4	4	7	20
SCE	IOU	687	2,060	515	687		858	3,948	684	684	1,367	5,315
SCE DA	ESP	90	271	68	90		113	520	86	86	172	692
SDCP	CCA	79	238	59	79		99	455	80	80	160	615
SDGE	IOU	83	248	62	83		103	476	72	72	143	619
SDGE DA	ESP	27	80	20	27		33	154	25	25	51	205
SICE	CCA	43	129	32	43		54	248	40	40	80	328
SIP	CCA	2	5	1	2		2	10	2	2	4	14
SOMA	CCA	25	74	18	25		31	141	23	23	45	186
SUVECA	CCA	41	124	31	41		52	237	40	40	79	316
VCEA	CCA	8	23	6	8		10	44	8	8	16	60
WICE	CCA	15	46	12	15		19	89	-	-	-	89
3PR	ESP	-	-	-	-		-	-	-	-	-	-
APN	ESP	-	-	-	-		-	-	-	-	-	-
CEI	ESP	-	-	-	-		-	-	-	-	-	-
CES	ESP	-	-	-	-		-	-	-	-	-	-
CNE	ESP	-	-	-	-		-	-	-	-	-	-
CPA	ESP	-	-	-	-		-	-	-	-	-	-
DEB	ESP	-	-	-	-		-	-	-	-	-	-
EIPS	ESP	-	-	-	-		-	-	-	-	-	-
NES	ESP	-	-	-	-		-	-	-	-	-	-
PPG	ESP	-	-	-	-		-	-	-	-	-	-
SENA	ESP	-	-	-	-		-	-	-	-	-	-
TNG	ESP	-	-	-	-		-	-	-	-	-	-
UCOP	ESP	-	-	-	-		-	-	-	-	-	-

wind_ca_2026_mtr_1_pre_nov302022	21.60% wind	mtr	2026 tranche_4
wind_ca_2026_mtr_2_post_nov302022	13.20% wind	mtr	2026 tranche_4
wind_ca_2027_mtr_2	14.00% wind	mtr	2027 tranche_5
wind_ca_2028_mtr_2	14.70% wind	mtr	2028 tranche_6
wind_nm_2023_mtr_2	31.10% wind	mtr	2023 tranche_1
wind_nm_2024_mtr_2	31.00% wind	mtr	2024 tranche_2
wind_nm_2025_mtr_1_pre_nov302022	34.50% wind	mtr	2025 tranche_3
wind_nm_2025_mtr_2_post_nov302022	30.00% wind	mtr	2025 tranche_3
wind_nm_2026_mtr_1_pre_nov302022	36.10% wind	mtr	2026 tranche_4
wind_nm_2026_mtr_2_post_nov302022	35.00% wind	mtr	2026 tranche_4
wind_nm_2027_mtr_2	33.70% wind	mtr	2027 tranche_5
wind_nm_2028_mtr_2	31.90% wind	mtr	2028 tranche_6
wind_offshore_2025_mtr_2_post_nov302022	48.00% wind	mtr	2025 tranche_3
wind_offshore_2026_mtr_1_pre_nov302022	36.40% wind	mtr	2026 tranche_4
wind_offshore_2026_mtr_2_post_nov302022	46.00% wind	mtr	2026 tranche_4
wind_offshore_2027_mtr_2	44.00% wind	mtr	2027 tranche_5
wind_offshore_2028_mtr_2	44.70% wind	mtr	2028 tranche_6
wind_wy_2023_mtr_2	28.90% wind	mtr	2023 tranche_1
wind_wy_2024_mtr_2	28.10% wind	mtr	2024 tranche_2
wind_wy_2025_mtr_1_pre_nov302022	26.70% wind	mtr	2025 tranche_3
wind_wy_2025_mtr_2_post_nov302022	31.00% wind	mtr	2025 tranche_3
wind_wy_2026_mtr_1_pre_nov302022	33.90% wind	mtr	2026 tranche_4
wind_wy_2026_mtr_2_post_nov302022	33.00% wind	mtr	2026 tranche_4
wind_wy_2027_mtr_2	31.70% wind	mtr	2027 tranche_5
wind_wy_2028_mtr_2	30.90% wind	mtr	2028 tranche_6

1531	BATERIA DEL SUR, BATERIA DEL SUR 2A	1531
1532	KETTLE SOLAR ONE	1532
1534	VULCAN	1534
1539	IRVING STORAGE	1539
1550	TANAGER STORAGE	1550
1552	CORMORANT STORAGE	1552
1553	JEWELFLOWER STORAGE	1553
1557	NOOSA ENERGY STORAGE	1557
1565	DYNAMO SOLAR	1565
1568	AIR STATION 1	1568
1586	ARCTURUS	1586
1587	KINGSROAD HYBRID SOLAR	1587
1593	PELICANS JAW HYBRID SOLAR	1593
1596	BUTTONBUSH SOLAR HYBRID ENERGY CENTER	1596
1604	ARATINA SOLAR CENTER 2	1604
1608	AVOCET STORAGE	1608
1611	COMMERCE ENERGY STORAGE	1611
1615	KESTREL STORAGE	1615
1617	LOCKHART SOLAR 2	1617
1619	GOLDBACK SOLAR CENTER	1619
1620-WD	EAGLE CREEK 2	1620-WD
1625	ANGELENO SOLAR FARM	1625
1629	HUMIDOR STORAGE 1	1629
1631	BELLEFIELD 2 SOLAR FARM	1631
1632	SANBORN HYBRID 3	1632
1636	CALYPSO SOLAR	1636
1641	RAMPA, SEPARATOR	1641
1642	OBERON	1642
1642-WD,2041-WD	SEPV BARBARA 3	2-WD,2041-WD
1643	LYCAN SOLAR	1643
1645	MENIFEE POWER BANK, MENIFEE POWER BANK 2, MENIFEE POWER BANK 3, MENIFEE POWER BAN	1645
1646	DOUBLE BUTTE STORAGE	1646
1647	ANGORA SOLAR FARM	1647
1649	BONANZA SOLAR	1649
1650	ROUGH HAT HYBRID SOLAR	1650
1654	YELLOW PINE 3	1654
1655	BONANZA PEAK SOLAR FARM	1655
1657	SANDPIPER STORAGE	1657
1660	CIMARRON WIND	1660
1662	VENTASSO ENERGY STORAGE	1662
1663	HOODINI	1663
1664	VOLTA DE MEXICALI	1664
1665	KINGSLEY SOLAR FARM	1665
1667	SUNRISE BUTTE	1667
1669	POME BESS	1669
1669S	INLAND EMPIRE ENERGY STORAGE	1669S
1670	PEREGRINE STORAGE	1670
1671	MARINE DEPOT	1671
1673	NIGHTHAWK STORAGE	1673
1678	HARGREAVILLA SUNRISE	1678
1683	AQUEDUCT ENERGY STORAGE	1683
1687	CONAWAY HYBRID POWER PLANT	1687
1690	DENALI ENERGY STORAGE	1690
1691	FORTIS	1691
1695	MEADOWS ENERGY STORAGE	1695
1700	NORTH BAY ENERGY STORAGE	1700
1702	POTENTIA-VRIDI	1702
1705	STEEL CITY BATTERY STORAGE	1705
1709	ROSEMARY	1709
1713	LEAD	1713
1718	GONZAGA HYBRID	1718
1728	ZETA	1728
1732-WD	VISALIA CSG	1732-WD
1736	HAWKINS SOLAR HYBRID	1736
1739	PECHO ENERGY STORAGE	1739
1740	PUFF HYBRID SOLAR	1740
1744	CRYSTAL FLATS	1744
1745	SUNRISE POWER IMPROVEMENT	1745
1749	WHALE ROCK ENERGY	1749
1750	WINDWALKER OFFSHORE	1750
1751	WINSTON HYBRID PV AND BESS	1751
1757	COBALT	1757
1758	DESERT SANDS	1758
1761	GRACE ENERGY CENTER	1761
1763	PORTA	1763
1764	SAPPHIRE SOLAR	1764
1766	COMMERCE ENERGY STORAGE 2	1766
1768	ROADHOUSE STORAGE	1768
1774	OVERNIGHT SOLAR	1774
1775	SEGS EXPANSION 2 HYBRID	1775
1776	VENTOSO	1776
1779	BELLEFIELD 3 SOLAR FARM	1779
1782	WILLOW ROCK ENERGY STORAGE	1782
1783	SHOALS ENERGY STORAGE	1783
1784	KEYHOLE WIND	1784
1789	RESFORD 2 SOLAR FARM	1789
1790	SANBORN HYBRID 4	1790
1791	SANBORN 5 HYBRID	1791
1792	SEQUOIA	1792
1795	ARIDA 3 SOLAR FARM	1795
1796	DELAMAR ENERGY STORAGE	1796
1798	CALVADA SPRINGS SOLAR	1798
1799	ROUGH HAT 2	1799
1800	PURPLE SAGE ENERGY CENTER	1800
1801	WATER ROCK SOLAR 1	1801
1806	CAPTIVA ENERGY STORAGE	1806
1810	EAST FIELD ENERGY STORAGE	1810
1812	ELISABETH	1812
1814	HEDIONDA ENERGY STORAGE	1814
1818	SADDLE MOUNTAIN SOLAR	1818
1820	SCAFELL STORAGE	1820
1821	SEGURO STORAGE	1821
1823	SUN STREAMS 5	1823
1824	VIENTO FRONTERIZO	1824
1828	WELLHEAD POWER PANOCHE, LLC	1828
1831	MIDLAND ES	1831
1832	GOAL LINE RELIABILITY	1832
1835	CASCADE ENERGY STORAGE EXPANSION	1835
1836	BRIX ENERGY STORAGE	1836
1837	TAMALPAIS ENERGY STORAGE	1837
1838	BOREALIS ENERGY STORAGE	1838
1840	GENOA ENERGY STORAGE	1840
1842	TOLENAS	1842
1843	BRUSHY	1843
1844	KANOA SOLAR	1844
1845	NORTH BAY ENERGY STORAGE 2	1845
1846	WILDHORSE ENERGY CENTER	1846
1847	JUGLANS ENERGY STORAGE	1847
1850	HIGH WINDS STORAGE	1850
1852	BULL RUN	1852
1853	BULL RUN 2 ES	1853
1854	CORBY 2	1854
1856	ARGES BESS	1856
1857	BLITZ ENERGY STORAGE	1857
1858	GRINDSTONE CREEK SOLAR	1858
1859	MAYACAMAS GEOTHERMAL	1859
1862	VERBENA ENERGY STORAGE	1862
1863	STONY CREEK STORAGE	1863
1864	TOWNSHIP POWER BANK	1864
1864-WD	RUANN DAIRY DIGESTER BIOMAT	1864-WD
1865	SEAHAWK STORAGE	1865
1866	TOKAY STORAGE	1866
1867	VELAS	1867
1871	STAGELINE ENERGY STORAGE	1871
1872	ALLEGHENY ENERGY STORAGE	1872
1873	BEOWULF ENERGY STORAGE	1873
1874	COMMANDER ENERGY STORAGE	1874

1875	DEILIAH ENERGY STORAGE	1875
1876	DOUBLE SPRINGS ENERGY STORAGE	1876
1877	JAGUAR ENERGY STORAGE	1877
1880	PALMETTO ENERGY STORAGE	1880
1881	SPECTRUM ENERGY STORAGE	1881
1887	PRESIDIO	1887
1889	HOLMAN	1889
1892	HARMONY STORAGE 2	1892
1894	ADA ENERGY STORAGE	1894
1895	OAKDALE STORAGE	1895
1896	PATHFINDER STORAGE	1896
1900	BAYLANDS BATTERY	1900
1903	GOLDEN FLATS	1903
1904	NORTHEAST CENTRAL VALLEY	1904
1905	ADRIAN STORAGE	1905
1906	ALVISO ENERGY STORAGE	1906
1911	ZORIN STORAGE	1911
1912	EXPRESSO (FKA KOLA 2)	1912
1913	OVERLAKE STORAGE	1913
1914	BLACK DIAMOND ES2	1914
1915	SHERMAN ENERGY STORAGE	1915
1918	KIFER BESS 1	1918
1919	SUNBEAM STORAGE	1919
1920	ZEUS BESS	1920
1921	ALLIUM HYBRID	1921
1922	ALTA CASA STORAGE	1922
1928	EL REY POWER BANK	1928
1929	CAZADORES STORAGE	1929
1930	APACHE STORAGE	1930
1932	COUGAR STORAGE	1932
1933	PUMA STORAGE	1933
1934	LOTUS SOLAR 2	1934
1935	ELYSIAN	1935
1940	WHITE RABBIT	1940
1943	WINGTIP SOLAR 1	1943
1949	DARDEN	1949
1952	AUSTRALIS	1952
1953	FLORES STORAGE	1953
1954	HUASO HYBRID	1954
1955	CIERVO MOUNTAIN HYBRID	1955
1956	CLARKSON	1956
1958	SPIKES PEAK SOLAR	1958
1959	CORNUCOPIA HYBRID	1959
1960	LAS CAMAS 4	1960
1962	LOCK STORAGE	1962
1963	ALMANDE ENERGY STORAGE	1963
1966	ORLEANS	1966
1968	PLUM	1968
1969	YORKTOWN	1969
1970	BUTTERCUP HYBRID SOLAR	1970
1973	PEACEFUL HOLLOW BESS	1973
1975	TARRAGON HYBRID	1975
1977	VALETUDO ENERGY STORAGE	1977
1980	ARTEMIS	1980
1983	PHAENON	1983
1987	BUTTONBUSH SOLAR 2	1987
1992	CALLINAN SOLAR AND STORAGE	1992
1994	EIGER ENERGY STORAGE	1994
1995	EVEREST ENERGY STORAGE	1995
1998	ISLAY	1998
2001	SERENA STORAGE	2001
2004	VALLEY SUNLIGHT REFINERY	2004
2006	CALLOWAY BESS	2006
2007-RD	NORTH FORK COMMUNITY POWER	2007-RD
2008	SALINAN ENERGY	2008
2010	CANNAE	2010
2012	SEAGLASS OFFSHORE WIND	2012
2013	ANDROMEDA	2013
2014	BRAVO WIND	2014
2015	CHERRY LANE HYBRID	2015
2017	ARIELLA SOLAR	2017
2018	HIDDEN KNOLLS BESS	2018
2022	SOCORRO PEAK SOLAR	2022
2023	JOVE SOLAR	2023
2025	BANEGRAS PVS	2025
2027	HARQUAHALA FLATS 2	2027
2029	HARQUAHALA SUNRISE 2	2029
2031	MARLEY	2031
2032	TROLLEY	2032
2033	CARMINE	2033
2034	HUB CITY ENERGY STORAGE	2034
2036	REDONDA	2036
2037	SARGASSO STORAGE	2037
2039	SANDRIFT STORAGE 1	2039
2041	SANDRIFT STORAGE 2	2041
2042	EASLEY	2042
2043	PICADOR ENERGY STORAGE	2043
2045	INVICTUS	2045
2048	TWIN PALMS SOLAR	2048
2049	ARDILLA	2049
2050	ETERNAL 2	2050
2051	SALVADOR	2051
2052	BOUSE SOLAR AND STORAGE PLANT	2052
2055	EUISMOD	2055
2056	QUERCUS	2056
2058	FOUR CREEKS ENERGY STORAGE	2058
2059	J90 ENERGY STORAGE	2059
2060	SAGERBRUSH ENERGY STORAGE	2060
2061	JUNIPER STORAGE	2061
2062	DORIAN STORAGE	2062
2064	ELION ENERGY STORAGE	2064
2066	DRIFTER ENERGY STORAGE	2066
2068	BOBOR STORAGE	2068
2078	SOLEIL CANTIL	2078
2080	RANGELAND SOLAR	2080
2081	MINERAL KING SOLAR	2081
2082	ANODE	2082
2085	SOLSKEN	2085
2089	GREASEWOOD ENERGY STORAGE	2089
2090	GWENT STORAGE 2	2090
2091	MAATHAI	2091
2092	ROSA STORAGE	2092
2096	HIDALGO ENERGY STORAGE	2096
2097	SIENNA SOLAR 2	2097
2098	CUERNO GRANDE WIND	2098
2101	WESTON STORAGE	2101
2103	CADY SOLAR	2103
2104	DOS PALMAS	2104
2105	CONDUIT ENERGY STORAGE	2105
2109	ADAGIO	2109
2110	FLEA FLUCKER ENERGY STORAGE	2110
2111	FLEETWOOD	2111
2113	GABRIEL STORAGE	2113
2114	DIRAC	2114
2115	SIMON	2115
2116	MARIO	2116
2117	CORAL REEF	2117
2121	GREENWOOD ENERGY STORAGE	2121
2124	TABLA ENERGY STORAGE	2124
2125	TYRELL ENERGY STORAGE	2125
2127	OTROS ALAMITOS ENERGY STORAGE	2127
2129	LOS NIETOS	2129
2131	MERLIN STORAGE	2131
2134	LOPEZ BESS	2134
2136	HAVEN STORAGE	2136
2137	MT BALDY ENERGY STORAGE	2137
2139	COMMERCE ENERGY STORAGE 3	2139

2140	STERLING	2140
2141	DELAMAR ENERGY STORAGE 2	2141
2142	SILVER STAR SOLAR	2142
2142-WD	LARA SOLAR 2 HYBRID	2142-WD
2144	MURRAY	2144
2145	DANDELION HYBRID SOLAR	2145
2146	WATER ROCK SOLAR 2	2146
2147	KAWICH	2147
2148	MOSEY	2148
2149	SUNBAKED SOLAR	2149
2150	ROUGH HAT 3	2150
2153	FRIGATEBIRD STORAGE	2153
2154	REMY	2154
2157	GNARLY OSAGE	2157
2161	ALISA SOLAR ENERGY COMPLEX	2161
2162	SOLAR DE MEXICALI	2162
2165	TOWER 1 ENERGY STORAGE	2165
2166	UMBRIEL	2166
2167	HAMMERHEAD STORAGE	2167
2172	HYDER	2172
2173	LAGO DOMINGO STORAGE	2173
2176	YUHA DESERT BATTERY STORAGE	2176
2177	BOULDER BRUSH HYBRID	2177
2178	BELL BLUFF STORAGE	2178
2180	CARGO STORAGE	2180
2181	PINSCHER ENERGY STORAGE	2181
2182	TAYLOR STORAGE	2182
2184	AMBERJACK ENERGY STORAGE	2184
2185	GATEWAY ENERGY STORAGE 2	2185
2186	SANDBAR ENERGY STORAGE	2186
2187	EOLICA DE RUMOROSA	2187
2187-RD	TRACY DESALINATION PLANT	2187-RD
2188	GERANIUM ENERGY STORAGE	2188
2192	PAJARO VALLEY STORAGE	2192
2195	TOWNSHIP EXPANSION	2195
2196	MALAGA BESS	2196
2199	TUNGSTEN BESS	2199
22	MONTEZUMA (HIGH WINDS III)	22
222	MONTEZUMA II	222
2226-WD	CES ELECTRON FARM	2226-WD
2392-WD	FRESNO COMMUNITY SOLAR	2392-WD
2606-WD	SONOMA SCHOOL DISTRICT MICROGRID	2606-WD
2614-WD	TULARE DAC SOLAR	2614-WD
2622-WD	FOSTER CLEAN POWER A	2622-WD
2649-WD	DOS PALOS CLEAN POWER	2649-WD
272	AMERICAN KINGS SOLAR	272
275	SOUTH BAY PSEUDO GEN	275
2796-WD	AVENAL CUTOFF DAC SPRING SOLAR	2796-WD
2799-WD	EAST CLEVELAND ROAD SOLAR	2799-WD
2864-WD	WEST TAMBO CLEAN POWER II	2864-WD
2915-WD	AVENUE 26 SOLAR PHASE I	2915-WD
294	DRACKER SOLAR	294
2967-WD	RIO VISTA SOLAR	2967-WD
297	ALTA VISTA SUNTOWER GENERATING STATION	297
3037-WD	AVENUE 26 SOLAR PHASE II	3037-WD
3126 RD	HAT CREEK BIENERGY	3126 RD
3187-RD	PITTSBURG RV BOAT SOLAR	3187-RD
32	TULE WIND	32
3318-WD	BTf STORAGE D1DF	3318-WD
378	LOS ESTEROS CRITICAL ENERGY FACILITY EXPANSION, LOS ESTEROS CRITICAL ENERGY FACILITY EXPANSION	378
421	SLOTH BESS, SLOTH	421
467	SILVER STATE SOUTH SOLAR PROJECT	467
467,502	SILVER STATE SOUTH SOLAR PROJECT STORAGE	467,502
506	ROSAMOND WEST SOLAR, ROSAMOND WEST SOLAR CENTRAL BESS A1, ROSAMOND WEST SOLAR CENTRAL BESS A2	506
5330	MA 4035	5330
5345	NUNN	5345
5350	WATTS I	5350
539	CROW CREEK SOLAR 1 (FKA: FRONTIER SOLAR 1) (FKA AS SCATEC WESTSIDE SOLAR RANCH I AND ST	539
5421	WATTS II	5421
5447	ARRACHE 8083 III	5447
5517	ARRACHE 4006 I	5517
5692	LANDPRO MADELYN	5692
5693	LANDPRO RUDY	5693
5694	LANDPRO MITCHELL	5694
5816	RUTAN I	5816
5817	RUTAN II	5817
5818	RUTAN III	5818
61	FRESNO COGENERATION EXPANSION PROJECT	61
625	KETTLEMAN SOLAR PROJECT (FKA KETTLEMAN SOLAR FARM)	625
653F	APPARENT FIRST HYBRID	653F
653F	APPARENT FIRST HYBRID	653F
678	EXCELSIOR SOLAR (FKA: BURFORD FIVE POINTS)	678
687	COLUMBIA SOLAR ENERGY 2 FKA COLUMBIA SOLAR ENERGY II	687
72	LAKE ELSINORE ADVANCED PUMPED STORAGE PROJECT	72
720	LASSEN LODGE HYDROELECTRIC	720
744	REDWOOD SOLAR FARM	744
768	BIG SKY SOLAR	768
779	WRIGHT SOLAR	779
789	RUGGED SOLAR FARM	789
81	BOTTLE ROCK POWER	81
897	STAGE COACH SOLAR	897
946	NORTHERN ORCHARD SOLAR	946
96	CPC WEST	96
993	SUNSHINE VALLEY SOLAR 1	993
GFID#5769	SEQUOIA 1 TULARE 1	GFID#5769
GFID#5770	SEQUOIA 1 TULARE 2	GFID#5770
GFID#5806	SEQUOIA 2 HANFORD 1	GFID#5806
GFID#5807	SEQUOIA 2 HANFORD 2	GFID#5807
GFID#5860	SEQUOIA 3 PORTERVILLE 6	GFID#5860
GFID#5861	SEQUOIA 3 PORTERVILLE 7	GFID#5861
GFID#5862	SEQUOIA 1 FARMERSVILLE 1	GFID#5862
GFID#5863	SEQUOIA 1 FARMERSVILLE 2	GFID#5863
GFID#5864	SEQUOIA 1 FARMERSVILLE 3	GFID#5864
GI-2022-161	HOLTVILLE PEAKER	GI-2022-161
GIA-2021-64	VIKINGS SOLAR BESS HYBRID PROJECT	GIA-2021-64
LODI NO. 7851	ENCHANTED ROCK LODI	LODI NO. 7851
PREC0049	LITHIUM UNIT 1	PREC0049
RULE 21 GFID 2738 WDAT 976	PECHANGA CHP	3FID 2738 WDAT 976
SCE GFID 5599	SNOWLINE WHITE ROAD NORTH	CE GFID 5599
SCE GFID 5601	SNOWLINE DUNCAN ROAD NORTH	CE GFID 5601
SCE GFID 5641	SNOWLINE DUNCAN ROAD SOUTH	CE GFID 5641
SCE GFID 5643	SNOWLINE WHITE ROAD CENTRAL	CE GFID 5643
SCE GFID 5644	SNOWLINE WHITE ROAD SOUTH	CE GFID 5644
SCE WDT1551	HECATE ENERGY DESERT STORAGE 1	CE WDT1551
SCE WDT1558	SAR JACINTOS GRID	CE WDT1558
SCE WDT1635	CHIQUITO GRID	CE WDT1635
SCE WDT1636	ORTEGA GRID	CE WDT1636
SCE WDT1646	CARRIS STORAGE 1	CE WDT1646
W131	SANTEE BESS	W131
W159	ENERSMART EL CAJON	W159
W166	ENERSMART MURRAY 7	W166
W178	BUCKMAN SPRINGS PV	W178
W183	ENERSMART MURRAY 2	W183
W184	ENERSMART MURRAY 4	W184
W186	ENERSMART MURRAY 3	W186
W187	ENERSMART MURRAY 1	W187
W190	ENERSMART CHULA VISTA 1	W190
W191	ENERSMART CHULA VISTA 2	W191
W227	ENERSMART MURRAY 5	W227
W229	ENERSMART MURRAY 6	W229
W260	DARK SKY ENERGY CENTER	W260
WDAT1454 AND WDT1454EXP	GOLETA ENERGY STORAGE AND GOLETA ENERGY STORAGE 2	4 AND WDT1454EXP
WDAT1644	SEAL BEACH PV, SEAL BEACH BESS	WDAT1644
WDAT3197	AFTW STORAGE	WDAT3197
WDT1203	INYO KERN SOLAR 1203	WDT1203
WDT1281	INYO KERN SOLAR 1281	WDT1281
WDT1295	HAZEL B	WDT1295

WDT1371	CAL PORTLAND CEMENT WIND MOJAVE	WDT1371
WDT1384	DEER CREEK SOLAR 1 PV	WDT1384
WDT1428	TITANUM 1 BESS	WDT1428
WDT1444	ALTA MESA WIND	WDT1444
WDT1504	CADILLAC 1 BESS	WDT1504
WDT1514	YORKTOWN 1 BESS	WDT1514
WDT1532	SANTA PAULA ENERGY STORAGE	WDT1532
WDT1539	PAINTER BESS	WDT1539
WDT1639	BOTTLENECK ENERGY STORAGE	WDT1639
WDT1641, WDT1736	CALD BESS PHASE 1	1641, WDT1736
WDT1648	BEAUMONT ENERGY STORAGE I	WDT1648
WDT179	BUCKMAN SPRINGS BESS	WDT179
WDT1794	TULE HYDROPOWER PLANT	WDT1794
WDT1814	EL SEGUNDO HAWTHORNE	WDT1814
WDT1815	WILMINGTON 1	WDT1815
WDT1817	DOMINGUEZ CARSON	WDT1817
WDT1818	WILMINGTON 2 CARSON	WDT1818
WDT1819	WORKMAN MILL WHITTIER	WDT1819
WDT315	CASA DIABLO 4	WDT315
WDT400	MESA WIND PROJECT	#REF!
		#REF!
		#REF!

resource	generator_name	MAXGEN	resource_final_group	BAA_ID	supertype	elec_type
7STDRD_1_SOLAR1	SHATTER_SOLAR		20 caiso_solar	CSO	physical	utility_pv
ACACIA_6_SOLAR	WEST_ANTILOPE_SOLAR		20 caiso_solar	CSO	physical	utility_pv
ADELANTO_SOLAR	NAN		10 ldwp_solar	LADWP	physical	utility_pv
ADERA_1_SOLAR1	ADERA_SOLAR		20 caiso_solar	CSO	physical	utility_pv
ADJUN_1_UNITS	GEYSERS ADJUN, AGGREGATE		22 caiso_geothermal	CSO	physical	geothermal
ADMETT_6_SOLAR	ADAMS, EAST		19 caiso_solar	CSO	physical	utility_pv
ADOBEE_1_SOLAR	ADOBEE_SOLAR		20 caiso_solar	CSO	physical	utility_pv
AGCANA_X_HOOVER	HOOVER_POWER_PLANT		40 caiso_hydro	WALC	specifiedimport	hydro
AGRICOLA_6_PL1MS	FRESNO PEAKER		22.69 caiso_peaker1	CSO	physical	gas_ct
AGRICOL_7_UNIT	FRESNO COGEN		50.6 caiso_cogen2	CSO	physical	gas_cc
AGUCAL_5_SOLAR1	AGUA CALIENTE_SOLAR		290 caiso_solar	CSO	physical	utility_pv
AKINGS_6_AMESR1	AMERICAN_KINGS_SOLAR		123 caiso_solar	CSO	physical	utility_pv
ALAMIT_2_PL143	ALAMITOS ENERGY CENTER, UNIT_7		674.7 caiso_cogen1	CSO	physical	gas_ct
ALAMIT_7_ES1	ALAMITOS ENERGY STORAGE		100.45 caiso_li_battery	CSO	physical	hr_batteries
ALAMIT_7_UNIT_3	ALAMITOS_GEN_STA_UNIT_3		326.76 caiso_st	CSO	physical	steam
ALAMIT_7_UNIT_4	ALAMITOS_GEN_STA_UNIT_4		334.43 caiso_st	CSO	physical	steam
ALAMIT_7_UNIT_5	ALAMITOS_GEN_STA_UNIT_5		480 caiso_st	CSO	physical	steam
ALAMO_6_UNIT	ALAMO POWER PLANT		17 caiso_hydro	CSO	physical	hydro
ALHMBR_1_AHLSR	SG_ALHAMBRA		50 iid_solar	IID	specifiedimport	utility_pv
ALHNTG_6_HYDRO1	SALMON_CREEK_HYDROELECTRIC_PROJEC		0.52 caiso_small_hydro	CSO	physical	small_hydro
ALMASI_2_ALS676	MAVERICKS STORAGE		50 caiso_li_battery	CSO	physical	hr_batteries
ALMASI_2_GS1SR1	ALMASOL GENERATING STATION_1		125 caiso_solar	CSO	physical	utility_pv
ALMASI_2_GS4SR4	ALMASOL GENERATING STATION_4		100 caiso_solar	CSO	physical	utility_pv
ALMASI_2_GS6SR6	ALMASOL GENERATING STATION_6		100 caiso_solar	CSO	physical	utility_pv
ALMASI_2_GS7SR7	ALMASOL GENERATING STATION_7		112 caiso_solar	CSO	physical	utility_pv
ALMEGT_1_UNIT_1	ALAMEDA_GT_UNIT_1		25 caiso_peaker2	CSO	physical	gas_ct
ALMEGT_1_UNIT_2	ALAMEDA_GT_UNIT_2		25 caiso_peaker2	CSO	physical	gas_ct
ALPAUGH_1_TUDSR1	TULARE DAC SOLAR		3 caiso_solar	CSO	physical	utility_pv
ALPSLR_1_NTHSLR	ALPAUGH NORTH_LLC		20 caiso_solar	CSO	physical	utility_pv
ALPSLR_1_SPSLR	ALPAUGH_50_LLC		50 caiso_solar	CSO	physical	utility_pv
ALTGDN_2_WIN07	PINTON PINES_1		164.31 caiso_wind	CSO	physical	in_state_wind_south
ALTGDN_2_WIN09	PINTON PINES_2		132 caiso_wind	CSO	physical	in_state_wind_south
ALTASA_2_CPC4	ALTA_WIND_4		102 caiso_wind	CSO	physical	in_state_wind_south
ALTASA_2_CPC5	ALTA_WIND_5		168 caiso_wind	CSO	physical	in_state_wind_south
ALTASA_2_CPC8	ALTA_WIND_8		150 caiso_wind	CSO	physical	in_state_wind_south
ALTAA_2_CPCW1	ALTA_WIND_1		150 caiso_wind	CSO	physical	in_state_wind_south
ALTAA_2_CPCW2	ALTA_WIND_2		150 caiso_wind	CSO	physical	in_state_wind_south
ALTAA_2_CPCW3	ALTA_WIND_3		150 caiso_wind	CSO	physical	in_state_wind_south
ALTAA_2_CPCW6	MUSTANG_HILLS		150 caiso_wind	CSO	physical	in_state_wind_south
ALTAB_2_WIND11	ALTA_WIND_11		188.15 caiso_wind	CSO	physical	in_state_wind_south
ALTAB_2_WIND10	ALTA_WIND_10		134.84 caiso_wind	CSO	physical	in_state_wind_south
ALTAGASSTORAGE	NAN		40 caiso_li_battery	CSO	physical	hr_batteries
ALTWD_1_OF	NAN		28.84 caiso_wind	CSO	physical	in_state_wind_south
ALTWD_2_ATWD3	ALTECH_3		9.8 caiso_wind	CSO	physical	in_state_wind_south
ALTWD_2_COAWD1	COACHELLA_1		50.4 caiso_wind	CSO	physical	in_state_wind_south
ANAHM_2_CANNY1	CANYON POWER PLANT_UNIT_1		49.21 caiso_peaker1	CSO	physical	gas_ct
ANAHM_2_CANNY2	CANYON POWER PLANT_UNIT_2		48.04 caiso_peaker1	CSO	physical	gas_ct
ANAHM_2_CANNY3	CANYON POWER PLANT_UNIT_3		46.49 caiso_peaker1	CSO	physical	gas_ct
ANAHM_2_CANNY4	CANYON POWER PLANT_UNIT_4		49.8 caiso_peaker1	CSO	physical	gas_ct
ANAHM_7_CT	NAN		40.64 caiso_peaker1	CSO	physical	gas_ct
ANTUP_2_OF	ANTELOPE OFS		4 caiso_wind	CSO	physical	in_state_wind_south
ANZA_6_SOLAR1	SEVILLE SOLAR ONE		20 iid_solar	IID	specifiedimport	utility_pv
APEX_CC	NAN		538.7 ldwp_cogen	LADWP	physical	gas_cc
APHLH_1_SFHX1	SOUTH FORK POWERHOUSE		2.68 caiso_hydro	CSO	physical	hydro
APHLH_1_SLARCK	SLAR CREEK HYDRO		1 caiso_small_hydro	CSO	physical	small_hydro
AQUAJS_2_AQWSR1	AQUAMARINE WESTSIDE		250 caiso_solar	CSO	physical	utility_pv
ARATINASOLAR	NAN		150 caiso_solar	CSO	physical	utility_pv
ARATINASTORAGE	NAN		50 caiso_li_battery	CSO	physical	hr_batteries
ARBWO_6_OF	WIND RESOURCE II		19.95 caiso_wind	CSO	physical	in_state_wind_south
ARCOGN_2_UNITS	WATSON COGENERATION		305 caiso_chp	CSO	physical	cogen
ARKANS_1_ARKSLR	SG ARKANSAS		50 iid_solar	IID	specifiedimport	utility_pv
ARLINT_5_SCDYN	ARLINGTON VALLEY CC		565 SW_CCGT	AP2S	specifiedimport	gas_ct
ARLNTN_2_AS1SR1	ARLINGTON		100 caiso_solar	CSO	physical	utility_pv
ARLNTN_2_ASUSR1	ARLINGTON SOLAR 1		131 caiso_solar	CSO	physical	utility_pv
ARLVAL_5_SOLAR	ARLINGTON VALLEY SOLAR ENERGY II		127 caiso_solar	SRP	specifiedimport	utility_pv
ARVINY_6_ORI0N1	ORION 1 SOLAR		12 caiso_solar	CSO	physical	utility_pv
ARVINY_5_ORI0N2	ORION 2 SOLAR		8 caiso_solar	CSO	physical	utility_pv
ASTORA_2_SOLAR1	ASTORIA 1		100 caiso_solar	CSO	physical	utility_pv
ASTORA_2_SOLAR2	ASTORIA 2		75 caiso_solar	CSO	physical	utility_pv
ATHOS_5_AFX12	INTERSECTS SOLAR		250 caiso_solar	CSO	physical	utility_pv
ATHOS_5_AFX22	ATHOS POWER PLANT 2		200 caiso_solar	CSO	physical	utility_pv
ATWEL2_1_SOLAR1	ATWELL WEST		20 caiso_solar	CSO	physical	utility_pv
ATWELL_1_SOLAR	ATWELL ISLAND PV SOLAR GENERATING FA		20 caiso_solar	CSO	physical	utility_pv
AVENAL_6_AVPRK	AVENAL PARK SOLAR PROJECT		6 caiso_solar	CSO	physical	utility_pv
AVENAL_6_AVSLR1	AVENAL SOLAR 1		7.9 caiso_solar	CSO	physical	utility_pv
AVENAL_6_AVSLR2	AVENAL SOLAR 2		7.9 caiso_solar	CSO	physical	utility_pv
AVENAL_6_SANDOG	SAND DRAG SOLAR PROJECT		19 caiso_solar	CSO	physical	utility_pv
AVENAL_6_SUNCTY	SUN CITY SOLAR PROJECT		20 caiso_solar	CSO	physical	utility_pv
AVSOLR_2_SOLAR	AVSOLAR RANCH 1		241.5 caiso_solar	CSO	physical	utility_pv
AZALEASOLAR	NAN		60 caiso_solar	CSO	physical	utility_pv
AZALEASTORAGE	NAN		38 caiso_li_battery	CSO	physical	hr_batteries
BAHA_2_VHSR1	LAKE HERMAN SOLAR		5 caiso_solar	CSO	physical	utility_pv
BALCHS_7_UNIT 1	BALCH 1 PH UNIT 1		31 caiso_hydro	CSO	physical	hydro
BALCHS_7_UNIT 2	BALCH 2 PH UNIT 2		52.5 caiso_hydro	CSO	physical	hydro
BALCHS_7_UNIT 3	BALCH 2 PH UNIT 3		54.6 caiso_hydro	CSO	physical	hydro
BANGOR_6_HYDRO	VIRGINIA RANCH DAM POWERPLANT		1 caiso_small_hydro	CSO	physical	small_hydro
BANKPP_2_NSPIN	BANKPP_2_NSPIN		270 caiso_pumped_hydro	CSO	physical	pumped_storage
BARRE_2_ALASB1	LOS ALAMITOS 1		10 caiso_li_battery	CSO	physical	hr_batteries
BARRE_2_OF	BARRE OFS		0.2 caiso_small_hydro	CSO	physical	small_hydro
BARRE_6_PEAKER	BARRE PEAKER		49 caiso_peaker1	CSO	physical	gas_ct
BASICE_2_UNITS	KING CITY COGEN		120 caiso_chp	CSO	physical	cogen
BCTSYS_5_PWADYN	BCTSYS_5_PWADYN		428 caiso_hydro	BPAT	specifiedimport	hydro
BGDCKR_1_UNITS	BADGER CREEK LIMITED		48.04 caiso_peaker1	CSO	physical	gas_ct
BEACON_2_SOLAR 8	NAN		125 ldwp_solar	LADWP	physical	utility_pv
BEARDS_7_UNIT 1	BEARDSLEY HYDRO		11.5 caiso_hydro	CSO	physical	hydro
BEARMT_1_UNIT	BEAR MOUNTAIN LIMITED		49.21 caiso_peaker2	CSO	physical	gas_ct
BELNLS_5_BV2SCEDYN	BROADVIEW 2		167 caiso_wind	AP2S	specifiedimport	out_of_state_wind_A2NM
BELNLS_5_BV3SCEDYN	BROADVIEW 1		130 caiso_wind	AP2S	specifiedimport	out_of_state_wind_A2NM
BELDEN_7_UNIT 1	BELDEN HYDRO		119 caiso_hydro	CSO	physical	hydro
BELLEVUSOLARINV1	NAN		1.6 caiso_solar	CSO	physical	utility_pv
BENRYN_2_BCBT1	BEAR CANYON ENERGY STORAGE		13 caiso_li_battery	CSO	physical	hr_batteries
BGSKYN_2_AS2SR1	ANTELOPE SOLAR 2		105 caiso_solar	CSO	physical	utility_pv
BGSKYN_2_ASPSR2	ANTELOPE SOLAR 2 SAN PABLO		100 caiso_solar	CSO	physical	utility_pv
BGSKYN_2_ASSR1B	ANTELOPE SOLAR 1B		17 caiso_solar	CSO	physical	utility_pv
BGSKYN_2_ASSR3A	ANTELOPE SOLAR 3A		15 caiso_solar	CSO	physical	utility_pv
BGSKYN_2_ASSR3B	ANTELOPE SOLAR 3B		5 caiso_solar	CSO	physical	utility_pv
BGSKYN_2_B53SR3	BIG SKY SOLAR 3		20 caiso_solar	CSO	physical	utility_pv
BIGBEAUSTORAGE	NAN		40 caiso_li_battery	CSO	physical	hr_batteries
BIGCRK_2_EKESWD	BIG CREEK HYDRO PROJECT PSP		820 caiso_hydro	CSO	physical	hydro
BIGCRK_7_DAM7	DAM 7 AT BIG CREEK (FISHWATER GEN)		0.3 caiso_hydro	CSO	physical	hydro
BIGCRK_7_MAMRES	MAMMOTH POOL RESERVOIR (FISHWATER)		1.25 caiso_small_hydro	CSO	physical	small_hydro
BIGSKY_2_AS2BT1	ANTELOPE SOLAR 2 LAB		127 caiso_li_battery	CSO	physical	hr_batteries
BIGSKY_2_AS1BT2	ANTELOPE SOLAR 2 LUNA		100 caiso_li_battery	CSO	physical	hr_batteries
BIGSKY_2_BK5SR6	BIG SKY SOLAR 6		20 caiso_solar	CSO	physical	utility_pv
BIGSKY_2_BK5SR7	BIG SKY SOLAR 7		20 caiso_solar	CSO	physical	utility_pv
BIGSKY_2_BK5SR8	BIG SKY SOLAR 8		20 caiso_solar	CSO	physical	utility_pv
BIGSKY_2_SOLAR1	ANTELOPE BIG SKY RANCH		20 caiso_solar	CSO	physical	utility_pv
BIGSKY_2_SOLAR2	BIG SKY SOLAR 4		40 caiso_solar	CSO	physical	utility_pv
BIGSKY_2_SOLAR3	BIG SKY SUMMER		20 caiso_solar	CSO	physical	utility_pv
BIGSKY_2_SOLAR4	WESTERN ANTELOPE BLUE SKY RANCH B		20 caiso_solar	CSO	physical	utility_pv
BIGSKY_2_SOLAR5	BIG SKY SOLAR 2		5 caiso_solar	CSO	physical	utility_pv
BIGSKY_2_SOLAR6	SLIVERDE 1		85 caiso_solar	CSO	physical	utility_pv
BIGSKY_2_SOLAR7	BIG SKY SOLAR 1		50 caiso_solar	CSO	physical	utility_pv
BIGSKY1	NAN		0.75 caiso_biomass	CSO	physical	biomass_wood
BIGKVT2	NAN		0.75 caiso_biomass	CSO	physical	biomass_wood
BIOMAS_1_UNIT 1	WOODLAND BIOMASS		25.5 caiso_biomass	CSO	physical	biomass_wood
BIOMASSONEG1	NAN		14.4 caiso_biomass	CSO	physical	biomass_wood
BISHOP_2_ALAMO	BISHOP CREEK PLANT 2 AND 6		13.4 caiso_small_hydro	CSO	physical	small_hydro
BISHOP_1_UNITS	BISHOP CREEK PLANT 3 AND 4		15.8 caiso_small_hydro	CSO	physical	small_hydro
BKRFLD_2_SOLAR1	BAKERSFIELD 111		1.38 caiso_solar	CSO	physical	utility_pv
BLACK_7_UNIT 1	JAMES B. BLACK 1		85 caiso_hydro	CSO	physical	hydro
BLACK_7_UNIT 2	JAMES B. BLACK 2		84.1 caiso_hydro	CSO	physical	hydro
BLACK_WALNUT	NAN		15 caiso_li_battery	CSO	physical	hr_batteries
BLAST_1_WIND	MOUNTAIN VIEW IV WIND		49 caiso_wind	CSO	physical	in_state_wind_south
BLCKBT_2_STONEY	BLACK BUTTE HYDRO		6.2 caiso_small_hydro	CSO	physical	small_hydro
BLCKWV_6_SOLAR1	BLACKWELL SOLAR		12 caiso_solar	CSO	physical	utility_pv
BLCKRK_2_GMCBT1	GENESS MCCOY BESS		230 caiso_li_battery	CSO	physical	hr_batteries
BLCKRK_2_SOLAR1	MCCOY STATION		250 caiso_solar	CSO	physical	utility_pv
BLKDA_2_BOBT1	BLACK DIAMOND ENERGY STORAGE		200 caiso_li_battery	CSO	physical	hr_batteries
BLM-W-2_COSBT1	CO2STORAGE		60 caiso_li_battery	CSO	physical	hr_batteries
BLM_2_UNITS	BLM EAST FACILITY		72 caiso_geothermal	CSO	physical	geothermal
BLUE_MOUNTAIN_ELECTRIC_COMPANY	NAN		3 caiso_biomass	CSO	physical	biomass_wood
BLULKI_6_BULKIK	NAN		12 caiso_biomass	CSO	physical	biomass_wood
BLVRD_6_BLVBT1	BOULEVARD ENERGY STORAGE		9.75 caiso_li_battery	CSO	physical	hr_batteries
BLYTHE_1_SOLAR1	BLYTHE SOLAR 1 PROJECT		21 caiso_solar	CSO	physical	utility_pv
BLYTHE_1_SOLAR2	BLYTHE GREEN 1		20 caiso_solar	CSO	physical	utility_pv
BLYTHSTORAGE1	NAN		63 caiso_li_battery	CSO	physical	hr_batteries
BNNER_2_ALTPH	ALTA POWER HOUSE		1 caiso_small_hydro	CSO	physical	small_hydro
BOGUE_1_UNITA1	FEATHER RIVER ENERGY CENTER, UNIT #1		48.69 caiso_peaker1	CSO	physical	gas_ct
BORDER_6_UNITA1	CAJUPACK POWER BORDER UNIT 1		51.25 caiso_peaker2	CSO	physical	gas_ct
BOWMAN_6_HYDRO	WID HYDRO BOWMAN POWERHOUSE		3.6 caiso_small_hydro	CSO	physical	small_hydro
BROGV_7_BAKER	BAKER STATION HYDRO		1.49 caiso_small_hydro	CSO	physical	small_hydro
BROSLD_2_HIWIND	HIGH WINDS ENERGY CENTER		162 caiso_wind	CSO	physical	in_state_wind_north

BROSLD_2_MTZUM2	NEXTERA ENERGY MONTEZUMA WIND II	78.2 caliso_wind	CSO	physical	in_state_wind_north
BROSLD_2_MTZUMA	PFL ENERGY MONTEZUMA WIND	36.8 caliso_wind	CSO	physical	in_state_wind_north
BROSLD_2_SHILOI	SHILOH I WIND PROJECT	150 caliso_wind	CSO	physical	in_state_wind_north
BROSLD_2_SHILO2	SHILOH WIND PROJECT 2	150 caliso_wind	CSO	physical	in_state_wind_north
BROSLD_2_SHLO3A	SHILOH II WIND PROJECT, LLC	102.5 caliso_wind	CSO	physical	in_state_wind_north
BROSLD_2_SHLO3B	SHILOH IV WIND PROJECT	100 caliso_wind	CSO	physical	in_state_wind_north
BREGGO_6_DEGRSL	DESERT GREEN SOLAR FARM	6.3 caliso_solar	CSO	physical	utility_pv
BREGGO_6_SOLAR	NRG BORREGO SOLAR ONE	26 caliso_solar	CSO	physical	utility_pv
BRODIE_2_WIND	CORAM BRODIE WIND PROJECT	102 caliso_wind	CSO	physical	in_state_wind_south
BUCKICK_2_PL1X3	BLYTE ENERGY CENTER	489.63 caliso_crgt1	CSO	physical	gas_ct
BUCKICK_2_HYDRO	LASSEN STATION HYDRO	0.99 caliso_small_hydro	CSO	physical	small_hydro
BUCKICK_7_OAKFLT	OAK FLAT	1.3 caliso_small_hydro	CSO	physical	small_hydro
BUCKICK_7_PL1X2	BUCKS CREEK AGGREGATE	57.25 caliso_hydro	CSO	physical	hydro
BUCKWOD_1_WPALM1	NORTH PALM SPRINGS 1A	2.4 caliso_solar	CSO	physical	utility_pv
BUCKWOD_1_OF	BUCKWIND RE-POWERING PROJECT	16.5 caliso_wind	CSO	physical	in_state_wind_south
BUCKWOD_7_WINTCV	WINTCEC ENERGY, LTD.	1.32 caliso_wind	CSO	physical	in_state_wind_south
BURNRYF_2_UNIT1	BURNEY FOREST POWER	29 caliso_biomass	CSO	physical	biomass_wood
BUTTVN_7_UNIT1	BUTT VALLEY HYDRO	39.5 caliso_hydro	CSO	physical	hydro
CABALO_2_M2BSR1	MUSTANG 2 BARBARO SOLAR	50 caliso_solar	CSO	physical	utility_pv
CABALO_2_M2WSR2	MUSTANG 2 WHIRLAWAY SOLAR	100 caliso_solar	CSO	physical	utility_pv
CABZON_1_WINDA1	CABAZON WIND PROJECT	41 caliso_wind	CSO	physical	in_state_wind_south
CALFTN_2_CFSB1	CALIFORNIA FLATS STORAGE	60 caliso_li_battery	CSO	physical	hr_batteries
CALFTN_2_SOLAR	CALIFORNIA FLATS NORTH	130 caliso_solar	CSO	physical	utility_pv
CALFTS_2_CFSR1	CALIFORNIA FLATS SOLAR SOUTH	150 caliso_solar	CSO	physical	utility_pv
CALGERI_1_UNITS	COSO NAVY 1	80 caliso_geothermal	CSO	physical	geothermal
CALPIN_1_AGRNW	AGRIWIS POWER PLANT	28.56 caliso_crgt1	CSO	physical	gas_cc
CALPS_6_SOLAR1	CALPATRIA SOLAR FARM	19.9 lid_solar	IID	specifiedimport	utility_pv
CAMACHE_1_PL1X3	CAMANACHE UNITS 1, 2 & 3 AGGREGATE	9.99 caliso_hydro	CSO	physical	hydro
CAMDEN_6_R0DBM1	RIUAN DARY DIGESTER BIOMAT	0.35 caliso_biomass	CSO	physical	biomass_wood
CAMERN_6_R0SR1	BUCKMAN SPRINGS PV	0.845 caliso_solar	CSO	physical	utility_pv
CAMERON	NAN	2.4 caliso_solar	CSO	physical	utility_pv
CAMLOT_2_SOLAR1	CAMELOT	45 caliso_solar	CSO	physical	utility_pv
CAMLOT_2_SOLAR2	COLUMBIA TWO	15 caliso_solar	CSO	physical	utility_pv
CAMPWF_7_FARWST	CAMP FAR WEST HYDRO	6.8 caliso_small_hydro	CSO	physical	small_hydro
CANTUA_1_SOLAR	CANTUA SOLAR STATION	20 caliso_solar	CSO	physical	utility_pv
CAPWD_1_OF	EDOM HILLS WIND FARM	19.55 caliso_wind	CSO	physical	in_state_wind_south
CARBBOU_7_PL1X3	CARBBOU PH 1 UNIT 4 & 8 AGGREGATE	40 caliso_hydro	CSO	physical	hydro
CARBBOU_7_PL1X5	CARBBOU PH 2 UNIT 4 & 5 AGGREGATE	120 caliso_hydro	CSO	physical	hydro
CARBBOU_7_UNIT1	CARBBOU PH 1 UNIT 1	24 caliso_hydro	CSO	physical	hydro
CARGILLB0B1	NAN	1.1 caliso_biomass	CSO	physical	biomass_wood
CARGILLB0B2	NAN	1.1 caliso_biomass	CSO	physical	biomass_wood
CARLS1_2_CARCT1	CARLSBAD 1	472 caliso_peak1r	CSO	physical	gas_ct
CARLS2_1_CARCT1	CARLSBAD 2	105.5 caliso_peak1r	CSO	physical	gas_ct
CARSON_ICE_CC	NAN	62.7 banc_crgt	BANC	physical	gas_ct
CARSON_ICE_PEAKE1	NAN	42 banc_peak1r	BANC	physical	gas_ct
CASADB_1_CD4GT1	NAN	40.7 caliso_geothermal	CSO	physical	geothermal
CASCES_6_CESB1	CASCADE ENERGY STORAGE	25 caliso_li_battery	CSO	physical	hr_batteries
CASTAC_1	NAN	240 lidwp_pumped_hydro	LADWP	physical	pumped_storage
CASTAC_2	NAN	250 lidwp_pumped_hydro	LADWP	physical	pumped_storage
CASTAC_3	NAN	240 lidwp_pumped_hydro	LADWP	physical	pumped_storage
CASTAC_4	NAN	240 lidwp_pumped_hydro	LADWP	physical	pumped_storage
CASTAC_5	NAN	240 lidwp_pumped_hydro	LADWP	physical	pumped_storage
CASTAC_6	NAN	250 lidwp_pumped_hydro	LADWP	physical	pumped_storage
CASVU_2_FCELL	NAN	1.4 caliso_biomass	CSO	physical	biomass_wood
CATINA_2_SOLAR	CATINA SOLAR - PHASES 1 AND 2	110 caliso_solar	CSO	physical	utility_pv
CATINA_2_SOLAR2	CATINA SOLAR 2	18 caliso_solar	CSO	physical	utility_pv
CAVLSR_2_RSOLAR	CALIFORNIA VALLEY SOLAR RANCH-PHASE 1	40 caliso_solar	CSO	physical	utility_pv
CAVLSR_2_RSOLAR	CALIFORNIA VALLEY SOLAR RANCH-PHASE 1	210 caliso_solar	CSO	physical	utility_pv
CAYTNO_2_VASCO	VASCO ROAD	4.3 caliso_biomass	CSO	physical	biomass_wood
CDWROT_2_GEN	CDWROT 2, GEN	415.3 caliso_pumped_hydro	CSO	physical	pumped_storage
CEDRCK_6_UNIT	WATER WHEEL RANCH	0.58 caliso_small_hydro	CSO	physical	small_hydro
CEUDCR_2_SOLAR1	DUCOR SOLAR 1	20 caliso_solar	CSO	physical	utility_pv
CEUDCR_2_SOLAR2	DUCOR SOLAR 2	20 caliso_solar	CSO	physical	utility_pv
CEUDCR_2_SOLAR3	DUCOR SOLAR 3	15 caliso_solar	CSO	physical	utility_pv
CEUDCR_2_SOLAR4	DUCOR SOLAR 4	20 caliso_solar	CSO	physical	utility_pv
CENT40_1_C40SR1	CENTRAL 40	40 caliso_solar	CSO	physical	utility_pv
CENTER_2_RHONDO	MWD RIO HONDO HYDROELECTRIC RECOVER	1.91 caliso_hydro	CSO	physical	hydro
CENTER_2_SOLAR1	PICO RIVERA	0.9 caliso_solar	CSO	physical	utility_pv
CENTER_2_TECNG1	TECHNICAST	0.99 caliso_chp	CSO	physical	cogen
CENTER_6_PEAKE1	CENTER PEAKER	47.3 caliso_peak1r	CSO	physical	gas_ct
CENTRO_2_BMSX2	BLYTE MESA SOLAR 2	223.6 caliso_solar	CSO	physical	utility_pv
CENTRO_2_BMSX2	BLYTE MESA SOLAR 2 BESS	112 caliso_li_battery	CSO	physical	hr_batteries
CENTRY_6_PL1X4	CENTURY GENERATING PLANT (AGGREGATE)	41.4 caliso_peak1r	CSO	physical	gas_ct
CHALANSOLAR	NAN	64.9 caliso_solar	CSO	physical	utility_pv
CHALANSTORAGE	NAN	2.9 caliso_li_battery	CSO	physical	hr_batteries
CHALK_1_UNIT	CHALK CLIFF LIMITED	48.67 caliso_peak1r	CSO	physical	cogen
CHARNM_2_PGONG1	PROCTER AND GAMBLE ONNARD I	19.87 caliso_chp	CSO	physical	cogen
CHESTN_2_CHWBX2	CHESTNUT WESTSIDE BESS	135 caliso_li_battery	CSO	physical	hr_batteries
CHESTN_2_CHWXS2	CHESTNUT WESTSIDE PV	150 caliso_solar	CSO	physical	utility_pv
CHEVCO_6_UNIT	CHEVRON USA (TATTCABET)	11.5 caliso_chp	CSO	physical	cogen
CHEVCO_6_UNIT1	CHEVRON USA (COALINGA)	16.5 caliso_chp	CSO	physical	cogen
CHEVCO_6_UNIT2	AERA ENERGY, LLC (COALINGA)	8.5 caliso_chp	CSO	physical	cogen
CHEVCO_1_UNIT	CHEVRON USA (CHMBC)	24.3 caliso_chp	CSO	physical	cogen
CHEVNM_2_UNITS	CHEVRON U.S.A. UNITS 1 & 2 AGGREGATE	124.87 caliso_chp	CSO	physical	cogen
CHICPK_7_UNIT1	CHICAGO PARK POWERHOUSE	42 caliso_hydro	CSO	physical	hydro
CHILLS_1_SVCENG	SYCAMORE ENERGY 1	1.5 caliso_biomass	CSO	physical	biomass_wood
CHILLS_7_UNITA1	SYCAMORE ENERGY 2	2.25 caliso_biomass	CSO	physical	biomass_wood
CHINO_2_APEB1	POMONA ENERGY STORAGE	20 caliso_li_battery	CSO	physical	hr_batteries
CHINO_2_JURUPA	JURUPA	1.5 caliso_solar	CSO	physical	utility_pv
CHINO_2_FESB1	POMONA ENERGY STORAGE 2	20 caliso_li_battery	CSO	physical	hr_batteries
CHINO_2_OF	CHINO QFS	0.18 caliso_biomass	CSO	physical	biomass_wood
CHINO_2_SASOLR	SS SAN ANTONIO WEST, LLC	1.5 caliso_solar	CSO	physical	utility_pv
CHINO_2_SOLAR	CHINO RT SOLAR 1	1 caliso_solar	CSO	physical	utility_pv
CHINO_2_SOLAR2	KONA SOLAR - TERRA FRANCESCA	1.49 caliso_solar	CSO	physical	utility_pv
CHINO_6_CMGEN	CHINO CO-GENERATION	26 caliso_chp	CSO	physical	cogen
CHINO_6_SMPAP	NAN	44 caliso_peak1r2	CSO	physical	gas_ct
CHINO_7_MILIKN	MN MILIKEN GENCO, LLC	1.9 caliso_biomass	CSO	physical	biomass_wood
CHWCH_1_AVS5R1	AVENUE 26 PHASE 1 SOLAR	2.56 caliso_solar	CSO	physical	utility_pv
CHWCH_1_AVS5R2	AVENUE 26 PHASE II SOLAR	5 caliso_solar	CSO	physical	utility_pv
CHWCH_1_BIOMAS	CHOW II BIOMASS TO ENERGY	18.8 caliso_biomass	CSO	physical	biomass_wood
CHWCH_1_UNIT	CHOW 2 PEAKER PLANT	48.6 caliso_reciprocating_engine	CSO	physical	ice
CLINESCO_3_PVDYN	CLINES CORNERS	129.94 caliso_wind	PNM	specifiedimport	out_of_state_wind_A2NM
CLINESCO_3_WIDWYN	CLINES CORNERS 8	194.28 caliso_wind	PNM	specifiedimport	out_of_state_wind_A2NM
CLOVDI_1_SOLAR	CLOVERDALE SOLAR 1	1.5 caliso_solar	CSO	physical	small_hydro
CLOVER_2_UNIT	CLOVER CREEK	0.99 caliso_small_hydro	CSO	physical	small_hydro
CLOVRD_6_LIMESD	LINE SADDLE HYDRO	2 caliso_small_hydro	CSO	physical	small_hydro
CLMMIT_6_CLEB1	CLAREMONT ENERGY STORAGE	9 caliso_li_battery	CSO	physical	hr_batteries
CLMTX_1_OF	SMALL OF AGGREGATION - OAKLAND	1.25 caliso_chp	CSO	physical	cogen
CMBLND_2_DS2B1	DAGGETT 2 A BESS	52 caliso_li_battery	CSO	physical	hr_batteries
CMBLND_2_DS2B2	DAGGETT 2 B BESS	33 caliso_li_battery	CSO	physical	hr_batteries
CMBLND_2_DS2B3	DAGGETT 2 C BESS	46 caliso_li_battery	CSO	physical	hr_batteries
CMBLND_2_DS2S1	DAGGETT 2 A PV	65 caliso_solar	CSO	physical	utility_pv
CMBLND_2_DS2S2	DAGGETT 2 B PV	65 caliso_solar	CSO	physical	utility_pv
CMBLND_2_DS2S3	DAGGETT 2 C PV	52 caliso_solar	CSO	physical	utility_pv
CNTNLA_2_SOLAR1	CENTINELA SOLAR ENERGY 1	125 caliso_solar	CSO	physical	utility_pv
CNTNLA_2_SOLAR2	CENTINELA SOLAR ENERGY 2	45.6 caliso_solar	CSO	physical	utility_pv
CONTRA_6_UNIT	CENTERVILLE	6.4 caliso_small_hydro	CSO	physical	small_hydro
COACHELLA_1	NAN	20 lid_peak1r	IID	physical	gas_ct
COACHELLA_2	NAN	20 lid_peak1r	IID	physical	gas_ct
COACHELLA_3	NAN	20 lid_peak1r	IID	physical	gas_ct
COACHELLA_4	NAN	20 lid_peak1r	IID	physical	gas_ct
COACHELLA_BATTERY	NAN	31 lid_li_battery	IID	physical	hr_batteries
COACHELLAWIND	NAN	94.936 caliso_wind	CSO	physical	in_state_wind_south
COCOPP_2_CTG1	MARSH LANDING 1	204.2 caliso_peak1r	CSO	physical	gas_ct
COCOPP_2_CTG2	MARSH LANDING 2	202.7 caliso_peak1r	CSO	physical	gas_ct
COCOPP_2_CTG3	MARSH LANDING 3	208.86 caliso_peak1r	CSO	physical	gas_ct
COCOPP_2_CTG4	MARSH LANDING 4	204.29 caliso_peak1r	CSO	physical	gas_ct
COCOSB_6_SOLAR	OAKLEY SOLAR PROJECT	1.5 caliso_solar	CSO	physical	utility_pv
COGNAT_1_UNIT	STOCKTON BIOMAS	45 caliso_biomass	CSO	physical	biomass_wood
COLEMAN_2_UNIT	COLEMAN	1.3 caliso_small_hydro	CSO	physical	small_hydro
COLGAT_7_UNIT1	COLGATE POWERHOUSE UNIT 1	176.72 caliso_hydro	CSO	physical	hydro
COLGAT_7_UNIT2	COLGATE POWERHOUSE UNIT 2	175.67 caliso_hydro	CSO	physical	hydro
COLGRN_2_CNSR1	COLGREEN NORTH SHORE	74.8 lid_solar	IID	specifiedimport	utility_pv
COLPIN_6_COLLNS	COLLINS PINE	3.3 caliso_biomass	CSO	physical	biomass_wood
COLTON_6_AGLUAM1	AGUA MANSA UNIT 1 (CITY OF COLTON)	43 caliso_peak1r2	CSO	physical	gas_ct
COLUSA_2_PL1X3	COLUSA GENERATING STATION	641 caliso_crgt1	CSO	physical	gas_cc
COLVIL_2_PL1X2	COLLIERVILLE HYDRO UNIT 1 & 2 AGGREGATE	246.86 caliso_hydro	CSO	physical	hydro
CONDOIR_2_C0RB1	CONDOIR BESS	200 caliso_li_battery	CSO	physical	hr_batteries
CONTRI_1_CASAD1	MAMMOTH G1	7.2 caliso_geothermal	CSO	physical	geothermal
CONTRI_1_CASAD2	MAMMOTH G2	10.5 caliso_geothermal	CSO	physical	geothermal
CONTRI_1_CASAD3	MAMMOTH G3	14 caliso_geothermal	CSO	physical	geothermal
CONTRI_1_LUNDY	LUNDY	3 caliso_small_hydro	CSO	physical	small_hydro
CONTRI_1_OXBOW	DIXIE VALLEY GEO	60 caliso_geothermal	CSO	physical	geothermal
CONTRI_1_POOLE	POOLE HYDRO PLANT 1	10.9 caliso_small_hydro	CSO	physical	small_hydro
CONTRI_1_OF	CONTRA QFS	2.55 caliso_geothermal	CSO	physical	geothermal
CONTRI_1_RUSHCK	RUSH CREEK	11.94 caliso_small_hydro	CSO	physical	small_hydro
COPMT2_2_SOLAR2	CM52	155 caliso_solar	CSO	physical	utility_pv
COPMT2_2_SOLAR4	COPPER MOUNTAIN SOLAR 4	92 caliso_solar	CSO	physical	utility_pv
COPMTN_1_O4D	COPPER MOUNTAIN 10	10 caliso_solar	CSO	physical	utility_pv
COPMTN_2_SOLAR1	COPPER MOUNTAIN 48	48 caliso_solar	CSO	physical	utility_pv
COPPER_MOUNTAIN_3_01	COPPER_MOUNTAIN_3_01	26 lidwp_solar	LADWP	physical	utility_pv
COPPER_MOUNTAIN_3_02	COPPER_MOUNTAIN_3_02	27 lidwp_solar	LADWP	physical	utility_pv
COPPER_MOUNTAIN_3_03	COPPER_MOUNTAIN_3_03	26 lidwp_solar	LADWP	physical	utility_pv
COPPER_MOUNTAIN_3_04	COPPER_MOUNTAIN_3_04	28 lidwp_solar	LADWP	physical	utility_pv

COPPER_MOUNTAIN_3_05	COPPER_MOUNTAIN_3_05	25 lldwp_solar	LADWP	physical	utility_pv
COPPER_MOUNTAIN_3_06	COPPER_MOUNTAIN_3_06	26 lldwp_solar	LADWP	physical	utility_pv
COPPER_MOUNTAIN_3_07	COPPER_MOUNTAIN_3_07	27 lldwp_solar	LADWP	physical	utility_pv
COPPER_MOUNTAIN_3_08	COPPER_MOUNTAIN_3_08	26 lldwp_solar	LADWP	physical	utility_pv
COPPER_MOUNTAIN_3_09	COPPER_MOUNTAIN_3_09	24 lldwp_solar	LADWP	physical	utility_pv
COPPER_MOUNTAIN_3_10	COPPER_MOUNTAIN_3_10	20 lldwp_solar	LADWP	physical	utility_pv
CORCAN_1_SOLAR1	CIO SOLAR	20 caiso_solar	CSO	physical	utility_pv
CORCAN_1_SOLAR2	CORCORAN CITY	11 caiso_solar	CSO	physical	utility_pv
CORDOVA_FR_SOLAR	NAN	9.5 banc_solar	BANC	physical	utility_pv
CORONA_2_SOLAR	MASTER DEVELOPMENT CORONA	0.99 caiso_solar	CSO	physical	gas_cc
CORONA_6_CLWTR	CLEARWATER POWER PLANT	28 caiso_csgt2	CSO	physical	biomass_wood
CORRAL_6_SJOAQN	AMERESCO SAN JOAQUIN	4.3 caiso_biomass	CSO	physical	gas_cc
COSUMNES_CC	NAN	534.6 banc_csgt	BANC	physical	small_hydro
COTTLE_2_FRMWH	FRANKENHEIMER POWER PLANT	5.3 caiso_small_hydro	CSO	physical	hydro
COVERD_2_HCKHY1	HATCHET CREEK	6.89 caiso_hydro	CSO	physical	hydro
COVERD_2_MCKHY1	MONTGOMERY CREEK HYDRO	2.8 caiso_hydro	CSO	physical	small_hydro
COVERD_2_OFUNTS	COVE HYDROELECTRIC PROJECT	5.5 caiso_small_hydro	CSO	physical	small_hydro
COVERD_2_RCHNY1	ROARING CREEK	2 caiso_hydro	CSO	physical	small_hydro
COWCRK_2_UNIT	COW CREEK HYDRO	2 caiso_small_hydro	CSO	physical	cogen
CPSTNO_2_PRRMADS	PRIMA DESCHIECHA (CAPISTRANO)	6.1 caiso_biomass	CSO	physical	utility_pv
CPVERD_2_SOLAR	CAMPO VERDE SOLAR	139 caiso_solar	CSO	physical	hr_batteries
CRELMAN_6_AABT1	AIR ATTACK BASE	0.47 caiso_li_battery	CSO	physical	utility_pv
CRELMAN_6_RAMON1	RAMONA 1	2 caiso_solar	CSO	physical	utility_pv
CRELMAN_6_RAMON2	RAMONA 2	5 caiso_solar	CSO	physical	utility_pv
CRESLI_6_RAMSRI3	RAMONA SOLAR ENERGY	4.3 caiso_solar	CSO	physical	small_hydro
CRESSY_1_PARKER	PARKER POWERHOUSE	2.83 caiso_small_hydro	CSO	physical	hydro
CRESTA_7_PL1X2	CRESTA PH UNIT 1 & 2 AGGREGATE	70.4 caiso_hydro	CSO	physical	hr_batteries
CRIMSN_2_CHMBT1	CRIMSON (CAISO), SONORIAN WEST (LSE)	200 caiso_li_battery	CSO	physical	hr_batteries
CRIMSN_2_CHMBT2	CRIMSON 2	150 caiso_li_battery	CSO	physical	small_hydro
CRNEV_6_CRNVA	CRANE VALLEY	0.9 caiso_small_hydro	CSO	physical	hydro
CRNEV_6_SIQN 2	SAN JOAQUIN 2	3.2 caiso_hydro	CSO	physical	hydro
CRNEV_6_SIQN 3	SAN JOAQUIN 3	4.2 caiso_hydro	CSO	physical	cogen
CROKET_7_UNIT	CROCKET COGEN	240 caiso_chp	CSO	physical	utility_pv
CROWCREEKSOLAR	NAN	20 caiso_solar	CSO	physical	hr_batteries
CROWCREEKSTORAGE	NAN	20 caiso_li_battery	CSO	physical	in_state_wind_south
CRSTWO_6_KUMYAY	KUMYEAY WIND FARM	50 caiso_wind	CSO	physical	cogen
CRWCN_1_SOLAR1	CROW CREEK SOLAR 1	20 caiso_solar	CSO	physical	gas_ct
CSCCOG_1_UNIT 1	SANTA CLARA CO-GEN	7 caiso_peaker1	CSO	physical	gas_ct
CSGGR_1_UNIT 1	GANERNA PEAKER UNIT 1	24.75 caiso_peaker2	CSO	physical	gas_ct
CSGGR_1_UNIT 2	GANERNA PEAKER UNIT 2	24.75 caiso_peaker2	CSO	physical	biomass_wood
CSLML_2_SOLAR	CSOLAR IV SOUTH	130 caiso_solar	CSO	physical	biomass_wood
CSOGA_6_LNDFIL	CLOVER FLAT LAND FILL GAS	0.85 caiso_biomass	CSO	physical	biomass_wood
CSSTRV_7_PL1X2	MARINA LAND FILL GAS	4.53 caiso_biomass	CSO	physical	cogen
CSSTRV_7_OFUNTS	CARSTVILLE OF AGGREGATE	2 caiso_biomass	CSO	physical	small_hydro
CTWNO_1_OF	SMALL OF AGGREGATION - BURNEY	0.5 caiso_small_hydro	CSO	physical	utility_pv
CUMBIA_1_SOLAR	COLUMBIA SOLAR ENERGY II	19 caiso_solar	CSO	physical	cogen
CUMMNG_6_SUNCT1	SUNSELECT 1	4 caiso_chp	CSO	physical	small_hydro
CURTIS_1_CANICK	CANAL CREEK POWERHOUSE	0.9 caiso_small_hydro	CSO	physical	hr_batteries
CURTIS_1_FARBLD	FAIRFIELD POWERHOUSE	0.8 caiso_small_hydro	CSO	physical	utility_pv
CUYAMA_6_SB35B1_LESR	SEPV BARBARA 3	3 caiso_li_battery	CSO	physical	utility_pv
CUYAMA_6_SB35B1_SUN	SEPV BARBARA 3	3 caiso_solar	CSO	physical	biogas
CUYAMS_6_CUYRS1	CUYAMA SOLAR	40 caiso_solar	CSO	physical	utility_pv
DAIRLD_1_CRIM1	NAN	2 caiso_biogas	CSO	physical	utility_pv
DAIRLD_1_MD15L1	MADERA 1	1.5 caiso_solar	CSO	physical	biomass_wood
DAIRLD_1_MD21M1	MADERA DIGESTER GENSET 2	0.8 caiso_biomass	CSO	physical	biomass_wood
DALYCT_1_FCEL	NAN	1.6 caiso_biomass	CSO	physical	biogas
DAVID_TVELEF_DAIRY_DIGESTER	NAN	1 caiso_biogas	CSO	physical	utility_pv
DAVIS_1_SOLAR1	GRASSLANDS 3	1 caiso_solar	CSO	physical	utility_pv
DAVIS_1_SOLAR2	GRASSLANDS 4	1 caiso_solar	CSO	physical	biogas
DAVIS_7_NMMETH	MM YOLD POWER, LLC	4 caiso_biogas	CSO	physical	small_hydro
DEADCK_3_UNIT	DEADCK_3_UNIT	1.96 caiso_small_hydro	CSO	physical	hydro
DEERCR_6_UNIT 1	DEER CREEK	7 caiso_hydro	CSO	physical	geothermal
DEL_RANCH_COMPANY	NAN	42 lid_geothermal	IID	physical	hr_batteries
DELANO_2_AUSB2	LOS ALAMITOS 2	10 caiso_li_battery	CSO	physical	utility_pv
DELANO_2_SOLAR1	GOLDEN SPRINGS BUILDING H	1.5 caiso_solar	CSO	physical	utility_pv
DELANO_2_SOLAR2	GOLDEN SPRINGS BUILDING M	1.75 caiso_solar	CSO	physical	utility_pv
DELANO_2_SOLAR3	GOLDEN SPRINGS BUILDING G	1.25 caiso_solar	CSO	physical	utility_pv
DELANO_2_SOLAR4	GOLDEN SPRINGS BUILDING F	1.3 caiso_solar	CSO	physical	utility_pv
DELANO_2_SOLAR5	GOLDEN SPRINGS BUILDING L	1 caiso_solar	CSO	physical	utility_pv
DELANO_2_SOLAR6	FREEWAY SPRINGS	2 caiso_solar	CSO	physical	utility_pv
DELANO_2_SOLRC1	GOLDEN SPRINGS BUILDING C1	1.16 caiso_solar	CSO	physical	utility_pv
DELANO_2_SORD	GOLDEN SOLAR BUILDING D	1.25 caiso_solar	CSO	physical	utility_pv
DELSUR_6_B5OLAR	CENTRAL ANTELOPE DRY RANCH B	3 caiso_solar	CSO	physical	utility_pv
DELSUR_6_CREB	NAN	8.5 caiso_solar	CSO	physical	utility_pv
DELSUR_6_DRYFAB	DRY FARM RANCH B	9 caiso_solar	CSO	physical	utility_pv
DELSUR_6_HORSR1	HORN	1.5 caiso_solar	CSO	physical	utility_pv
DELSUR_6_SOLAR1	SUMMER SOLAR NORTH	6.5 caiso_solar	CSO	physical	utility_pv
DELSUR_6_SOLAR4	RADIANCE SOLAR 4	1.5 caiso_solar	CSO	physical	utility_pv
DELSUR_6_SOLAR5	RADIANCE SOLAR 5	1.5 caiso_solar	CSO	physical	gas_cc
DELTA_2_PL1M	DELTA ENERGY CENTER AGGREGATE	800 caiso_csgt1	CSO	physical	geothermal
DESERT_POWER_3	NAN	50 lid_geothermal	IID	physical	biogas
DESERT_VIEW	NAN	50 caiso_biomass	IID	physical	in_state_wind_south
DEVERS_1_OF	NAN	92.69886 caiso_wind	CSO	physical	utility_pv
DEVERS_1_SEPV5	SEPV 5	2 caiso_solar	CSO	physical	utility_pv
DEVERS_1_SOLAR	CASCADE SOLAR	18.5 caiso_solar	CSO	physical	utility_pv
DEVERS_1_SOLAR1	SEPV8	12 caiso_solar	CSO	physical	utility_pv
DEVERS_1_SOLAR2	SEPV9	9 caiso_solar	CSO	physical	utility_pv
DEVERS_2_CS284	CALIENTE SOLAR 2	0.91 caiso_solar	CSO	physical	utility_pv
DEVERS_2_DSHPG2	DESERT HOT SPRINGS 2	1.4 caiso_solar	CSO	physical	cogen
DEZEL_1_UNIT	WESTERN POWER AND STEAM COGENERAT	20 caiso_chp	CSO	physical	nuclear
DIABLO_7_UNIT 1	DIABLO CANYON UNIT 1	1150 caiso_nuclear	CSO	physical	nuclear
DIABLO_7_UNIT 2	DIABLO CANYON UNIT 2	1150 caiso_nuclear	CSO	physical	biogas
DIAMOND_H_DAIRY_POWER	NAN	2 caiso_biogas	CSO	physical	biomass_wood
DINUBA_6_UNIT	NAN	2 caiso_biomass	CSO	physical	cogen
DISCOV_1_CHEVRN	CHEVRON USA (EASTRIDGE)	48.8 caiso_chp	CSO	physical	biomass_wood
DIVSON_6_NSOF	NAN	47 caiso_chp	CSO	physical	biomass_wood
DIXNLD_1_LNDFL	ZERO WASTE ENERGY	1.6 caiso_biomass	CSO	physical	hydro
DMOVLV_1_UNITS	DIAMOND VALLEY LAKE PUMP-GEN PLANT	15 caiso_hydro	CSO	physical	physical
DONNELV_7_UNIT	DONNELLS HYDRO	72 caiso_hydro	CSO	physical	pumped_storage
DOSMGO_2_NSPIN	DOSMGO_2_NSPIN	159 caiso_pumped_hydro	CSO	physical	gas_ct
DOUBLC_1_UNITS	DOUBLE "C" LIMITED	52.23 caiso_peaker2	CSO	physical	biomass_wood
DOUBLEADGESTER1	NAN	1.5 caiso_biomass	CSO	physical	biomass_wood
DOUBLEADGESTER2	NAN	1.5 caiso_biomass	CSO	physical	biomass_wood
DOUBLEADGESTER3	NAN	1.5 caiso_biomass	CSO	physical	utility_pv
DRACKR_2_D45R4B	DRACKER SOLAR UNIT 4B	62.5 caiso_solar	CSO	physical	utility_pv
DRACKR_2_DS45R3	DRACKER SOLAR UNIT 3	125 caiso_solar	CSO	physical	utility_pv
DRACKR_2_DS45R4	DRACKER SOLAR UNIT 4	62.5 caiso_solar	CSO	physical	hr_batteries
DRACKR_2_DS4BT1	DRACKER SOLAR UNIT 1 BESS	63 caiso_li_battery	CSO	physical	hr_batteries
DRACKR_2_DS4BT2	DRACKER SOLAR UNIT 2 BESS	115 caiso_li_battery	CSO	physical	hr_batteries
DRACKR_2_DS4BT3	DRACKER SOLAR UNIT 3 BESS	115 caiso_li_battery	CSO	physical	hr_batteries
DRACKR_2_DS4BT4	DRACKER SOLAR UNIT 4 BESS	47 caiso_li_battery	CSO	physical	utility_pv
DRACKR_2_SOLAR1	DRACKER SOLAR UNIT 1	110 caiso_solar	CSO	physical	utility_pv
DRACKR_2_SOLAR2	DRACKER SOLAR UNIT 2	125 caiso_solar	CSO	physical	gas_ct
DREWS_6_PL1X4	DREWS GENERATING PLANT	41.4 caiso_peaker1	CSO	physical	utility_pv
DREWSR_2_BHSR1	BLUE HORNET SOLAR	100 caiso_solar	CSO	physical	hydro
DRUM_7_PL1X2	DRUM PH 1 UNITS 1 & 2 AGGREGATE	26 caiso_hydro	CSO	physical	hydro
DRUM_7_PL1X4	DRUM PH 1 UNITS 3 & 4 AGGREGATE	28.9 caiso_hydro	CSO	physical	small_hydro
DRUM_7_UNIT 5	DRUM PH 2 UNIT 5	60 caiso_hydro	CSO	physical	hr_batteries
DSABLA_7_UNIT	DE SABLA HYDRO	18.5 caiso_small_hydro	CSO	physical	hr_batteries
DSLWR_2_W9CSB1	WILLY'S CHAP 1	102 caiso_li_battery	CSO	physical	utility_pv
DSLWR_2_W9CSB2	WILLY'S CHAP 2	72 caiso_li_battery	CSO	physical	utility_pv
DSLWR_2_W9CSR1	WILLOW SPRINGS 2	100 caiso_solar	CSO	physical	utility_pv
DSRTHV_2_DH1SR1	DESERT HARVEST	80 caiso_solar	CSO	physical	hr_batteries
DSRTHV_2_DH2BT1	DESERT HARVEST BESS	35 caiso_li_battery	CSO	physical	utility_pv
DSRTHV_2_DH2SR2	DESERT HARVEST 2	70 caiso_solar	CSO	physical	utility_pv
DSRTS_2_SOLAR1	DESERT STATELINE	296.19 caiso_solar	CSO	physical	hr_batteries
DSRTSN_2_DS2BK2	DESERT SUNLIGHT PV II STORAGE 2	230 caiso_li_battery	CSO	physical	hr_batteries
DSRTSN_2_DS2X2	DESERT SUNLIGHT PV II STORAGE	230 caiso_li_battery	CSO	physical	utility_pv
DSRTSN_2_SOLAR1	DESERT SUNLIGHT 300	300 caiso_solar	CSO	physical	in_state_wind_south
DSRTSN_2_SOLAR2	DESERT SUNLIGHT 250	250 caiso_solar	CSO	physical	in_state_wind_south
DTCHWD_2_BT3WND	BROOKFIELD TEHACHA P 3	4.5 caiso_wind	CSO	physical	gas_cc
DTCHWD_2_BT4WND	BROOKFIELD TEHACHA P 4	6.52 caiso_wind	CSO	physical	out_of_state_wind_AZNM
DUANE_1_PL1X3	DONALD VON RAESFELD POWER PROJECT	147.8 caiso_csgt2	CSO	physical	hydro
DURNNEK_3_WBYN	DURAN MESA	105.08 caiso_wind	PNM	specifiedimport	hydro
DUTCH1_7_UNIT 1	DUTCH FLAT 1 PH	22 caiso_hydro	CSO	physical	hydro
DUTCH2_7_UNIT 1	DUTCH FLAT 2 PH	26 caiso_hydro	CSO	physical	in_state_wind_north
DVCHV_1_UNITS	DEVIL CANYON HYDRO UNITS 1-4 AGGREG	225 caiso_hydro	CSO	physical	hr_batteries
DYERSK_6_DS5WV01	DEYR SUMMIT WIND REPOWER	44.8 caiso_wind	CSO	physical	hr_batteries
DYLAN_2_BMTBT1	BEAUMONT BESS	100 caiso_li_battery	CSO	physical	geothermal
EARTH_ENERGY_1	NAN	11 lid_geothermal	IID	physical	pumped_storage
EASTWO_7_UNIT	EASTWOOD PUMP-GEN	200 caiso_pumped_hydro	CSO	physical	hr_batteries
ECASCO_2_SIGBT1	SAN JACINTO GRID	65 caiso_li_battery	CSO	physical	pumped_storage
EDMONS_2_NSPIN	EDMONS_2_NSPIN	775.8 caiso_pumped_hydro	CSO	physical	hr_batteries
EDWARD_2_E215B1_LESR	EDSAN 2 EDWARDS 1A	71 caiso_li_battery	CSO	physical	utility_pv
EDWARD_2_E215B1_SUN	EDSAN 2 EDWARDS 1A	95 caiso_solar	CSO	physical	utility_pv
EDWARD_2_E235B1	EDSAN 2 EDWARDS 3	24 caiso_solar	CSO	physical	hr_batteries
EDWARD_2_E235B1_LESR	EDSAN 2 EDWARDS 3	12 caiso_li_battery	CSO	physical	hr_batteries
EDWARD_2_ES2BT1	EDSAN 2	151 caiso_solar	CSO	physical	utility_pv
EDWARD_2_ES2BT1_LESR	EDSAN 2	66 caiso_li_battery	CSO	physical	hr_batteries
EDWARD_2_ESS5B1	SANBORN SOLAR 2 EDWARDS 5	116 caiso_solar	CSO	physical	utility_pv
EDWARD_2_ESS5B2	SANBORN SOLAR 2	132 caiso_solar	CSO	physical	utility_pv
ELCTHNP_6_SOLAR1	E E SOLAR 1	20 caiso_solar	CSO	physical	gas_cc
ELCENTRO_4	NAN	70 lid_csgt	IID	physical	gas_cc
ELCENTRO_C2	NAN	108.8 lid_csgt	IID	physical	gas_cc

EL_CENTRO_CC3	NAN	146.5	lid_crgt	IID	physical	gas_cc
ELCABO_5_ECVSCIDYN	EL CABO WIND	298	caiso_wind	AZPS	specifiedimport	out_of_state_wind_AZNM
ELCAIN_6_DRG5N1	NAN	3	caiso_li_battery	CSO	physical	hr_batteries
ELCAIN_6_DRG5N2	NAN	1	caiso_li_battery	CSO	physical	hr_batteries
ELCAIN_6_EB1B1T1	EASTERN BESS 1	7.5	caiso_li_battery	CSO	physical	hr_batteries
ELCAIN_6_LMNA	EL CAJON ENERGY CENTER	48.1	caiso_peaker2	CSO	physical	gas_ct
ELCAIN_6_UNIT1A	CUYAMACA PEAK ENERGY PLANT	45.42	caiso_peaker1	CSO	physical	gas_ct
ELCAP_1_SOLAR	2097 HELTON	1.5	caiso_solar	CSO	physical	utility_pv
ELDORO_7_UNIT1	EL DORADO UNIT 1	11	caiso_hydro	CSO	physical	hydro
ELDORO_7_UNIT2	EL DORADO UNIT 2	11	caiso_hydro	CSO	physical	hydro
ELECTR_7_PL1X3	ELECTRA PH UNIT 1 & 2 AGGREGATE	93	caiso_hydro	CSO	physical	hydro
ELK_GROVE_1_SOLAR	NAN	50.9	banc_solar	BANC	physical	utility_pv
ELK_GROVE_2_SOLAR	NAN	37.9	banc_solar	BANC	physical	utility_pv
ELKRC_6_STONY	STONEY GORGE HYDRO AGGREGATE	4.9	caiso_small_hydro	CSO	physical	small_hydro
ELKHL_2_PL1X3	ELK HILLS COMBINED CYCLE (AGGREGATE)	551.7	caiso_crgt1	CSO	physical	gas_cc
ELKHNN_1_EESX3	ELKHORN ENERGY STORAGE	182.5	caiso_li_battery	CSO	physical	hr_batteries
ELLIOT_6_EUBT1	ELLIOTT ENERGY STORAGE	9.75	caiso_li_battery	CSO	physical	hr_batteries
ELIUS_2_OF	ELIUS OPS	12	caiso_peaker1	CSO	physical	gas_ct
ELNIDP_6_BIOMAS	EL NIDO BIOMASS TO ENERGY	10.5	caiso_biomass	CSO	physical	biomass_wood
ELSEGN_2_UN1011	EL SEGUNDO ENERGY CENTER 5/6	274.31	caiso_crgt2	CSO	physical	gas_cc
ELSEGN_2_UN2021	EL SEGUNDO ENERGY CENTER 7/8	271.74	caiso_crgt1	CSO	physical	gas_cc
ENELBELLSTORAGE	NAN	10	caiso_li_battery	CSO	physical	hr_batteries
ENERGETICS_PV	NAN	4.8	caiso_solar	CSO	physical	utility_pv
ENERSI_2_WIND	ESI WIND ENERGY	151	caiso_wind	CSO	physical	in_state_wind_south
ENERSI_5_ES1W02	ENERGIA_SIERRA_JUAREZ_2_US_LLC	100	caiso_wind	CSO	physical	in_state_wind_south
ENWIND_2_WIND1	CAMERON RIDGE	47.1	caiso_wind	CSO	physical	in_state_wind_south
ENWIND_2_WIND2	RIDGETOP 1	38.24	caiso_wind	CSO	physical	in_state_wind_south
ESCOND_6_EB1B1T1	ESCONDIDO BESS 1	10	caiso_li_battery	CSO	physical	hr_batteries
ESCOND_6_EB2B1T2	ESCONDIDO BESS 2	10	caiso_li_battery	CSO	physical	hr_batteries
ESCOND_6_EB1B1T3	ESCONDIDO BESS 3	10	caiso_li_battery	CSO	physical	hr_batteries
ESCOND_6_PL1X2	NMC ESCONDIDO AGGREGATE	48.71	caiso_peaker2	CSO	physical	gas_ct
ESCOND_6_UNIT18	CAJALPEAK POWER ENTERPRISE UNIT 1	48.04	caiso_peaker2	CSO	physical	gas_ct
ESCO_6_GM0F2	GOAL LINE COGEN	49.9	caiso_chp	CSO	physical	cogen
ESNNWR_2_CS1B1T3	CARBIS STORAGE-1	10	caiso_li_battery	CSO	physical	hr_batteries
ESNNWR_2_HDSB1T2	HECATE ENERGY DESERT STORAGE 1	10	caiso_li_battery	CSO	physical	hr_batteries
ESNNWR_2_WC1B1T1	WILCOAT 1 BESS	3	caiso_li_battery	CSO	physical	hr_batteries
ESQUCH_6_LN0F1L	NEAL ROAD LANDFILL GENERATING FACULT	2.1	caiso_biomass	CSO	physical	biomass_wood
ESTWIND_2_OPW001	OASIS POWER PLANT EASTWIND	57.14	caiso_wind	CSO	physical	in_state_wind_south
ETIWN0_2_CHMPNE	CHAMPAGNE	1	caiso_solar	CSO	physical	utility_pv
ETIWN0_2_F0HTNA	FONTANA LYLE CREEK POWERHOUSE P	2.56	caiso_small_hydro	CSO	physical	small_hydro
ETIWN0_2_R1S010	SPV010 FONTANA RT SOLAR	1.5	caiso_solar	CSO	physical	utility_pv
ETIWN0_2_R1S015	SPV015	3	caiso_solar	CSO	physical	utility_pv
ETIWN0_2_R1S017	SPV017	3.5	caiso_solar	CSO	physical	utility_pv
ETIWN0_2_R1S018	SPV018 FONTANA RT SOLAR	1.5	caiso_solar	CSO	physical	utility_pv
ETIWN0_2_R1S023	SPV023 FONTANA RT SOLAR	2.5	caiso_solar	CSO	physical	utility_pv
ETIWN0_2_R1S026	SPV026	6	caiso_solar	CSO	physical	utility_pv
ETIWN0_2_R1S027	SPV027	2	caiso_solar	CSO	physical	utility_pv
ETIWN0_2_SEPB1T1	SEPARATOR	100	caiso_li_battery	CSO	physical	hr_batteries
ETIWN0_2_SOLAR1	DEDEAUX ONTARIO	1	caiso_solar	CSO	physical	utility_pv
ETIWN0_2_SOLAR2	ROCHESTER	1	caiso_solar	CSO	physical	utility_pv
ETIWN0_2_SOLAR5	DULLES	2	caiso_solar	CSO	physical	utility_pv
ETIWN0_2_UNIT1	ETIWN0_2_UNIT1	33.6	caiso_chp	CSO	physical	cogen
ETIWN0_6_GPRLND	GRAPELAND PEAK	45.64	caiso_peaker1	CSO	physical	gas_ct
ETIWN0_6_INEB1T1	INLAND EMPIRE ENERGY STORAGE	70	caiso_li_battery	CSO	physical	hr_batteries
ETIWN0_6_MWDET1	ETIWNADA RECOVERY HYDRO	24	caiso_small_hydro	CSO	physical	small_hydro
EXCHIE_7_UNIT1	EXCHELDER HYDRO	94.5	caiso_hydro	CSO	physical	hydro
EXCISL_1_SOLAR	EXCELSIOR SOLAR	60	caiso_solar	CSO	physical	utility_pv
FAIRHV_6_UNIT	NAN	18.75	caiso_biomass	CSO	physical	biomass_wood
FALLBR_6_FESB1T1	FALLBROOK ENERGY STORAGE	40	caiso_li_battery	CSO	physical	hr_batteries
FELLOW_7_OFUNTS	FELLOW OF AGGREGATE	6.2	caiso_chp	CSO	physical	cogen
FIFTHS_2_FSS1T	FIFTH STANDARD BATTERY	137	caiso_li_battery	CSO	physical	hr_batteries
FIFTHS_2_FSSR1	FIFTH STANDARD SOLAR	150	caiso_solar	CSO	physical	utility_pv
FLOWD_2_RT2W02	RIDGETOP 2	27.39	caiso_wind	CSO	physical	in_state_wind_south
FLOWD_2_WIND1	CAMERON RIDGE 2	11.9	caiso_wind	CSO	physical	in_state_wind_south
FLOWD2_2_FRLWND	DIABLO WINDS	18	caiso_wind	CSO	physical	in_state_wind_north
FMEADO_6_HELHL	FMEADO_6_HELHL	0.6	caiso_hydro	CSO	physical	hydro
FMEADO_7_UNIT	FRENCH MEADOWS HYDRO	16	caiso_small_hydro	CSO	physical	small_hydro
FORBET_7_UNIT1	FORESTOWN HYDRO	37.5	caiso_hydro	CSO	physical	hydro
FORKBU_6_UNIT	HYPOWER, INC. (FORKS OF BUTTE)	14.3	caiso_hydro	CSO	physical	hydro
FRESHW_1_SOLAR1	CORCORAN 3	20	caiso_solar	CSO	physical	utility_pv
FRESNOSOLAR	NAN	100	caiso_solar	CSO	physical	utility_pv
FRESNOSTORAGE	NAN	10	caiso_li_battery	CSO	physical	hr_batteries
FRIANT_6_UNITS	FRIANT DAM	25	caiso_small_hydro	CSO	physical	small_hydro
FRITO_1_LAY	FRITO-LAY	6	caiso_chp	CSO	physical	cogen
FRITWB_6_SOLAR1	FRONTIER SOLAR	20	caiso_solar	CSO	physical	utility_pv
FROGTN_1_LITIC4A	ANGELS POWERHOUSE	1.4	caiso_hydro	CSO	physical	utility_pv
FROGTN_1_UTICAM	MURPHY'S POWERHOUSE	3.6	caiso_hydro	CSO	physical	hydro
FTSWRD_6_TRFORK	THREE FORKS WATER POWER PROJECT	1.63	caiso_small_hydro	CSO	physical	small_hydro
FTSWRD_7_OFUNTS	FTSWRD_7_OFUNTS	1.63	caiso_small_hydro	CSO	physical	small_hydro
FULTON_1_OF	SMALL OF AGGREGATION - ZENIA	1	caiso_small_hydro	CSO	physical	small_hydro
GALE_1_SR3SR3	SUNRAY 3	13.8	caiso_solar	CSO	physical	utility_pv
GANSO_1_W5TRM1	WESTSTAR DAIRY BIOGAS	1	caiso_biogas	CSO	physical	biogas
GARLND_2_GANT1L	GARLAND STORAGE	88	caiso_li_battery	CSO	physical	hr_batteries
GARLND_2_GASL1R	GARLAND B	180	caiso_solar	CSO	physical	utility_pv
GARLND_2_GASL1R	GARLAND A	20	caiso_solar	CSO	physical	utility_pv
GARNET_1_SOLAR	NORTH PALM SPRINGS 4A	4	caiso_solar	CSO	physical	utility_pv
GARNET_1_SOLAR2	GARNET SOLAR POWER GENERATION STAT	4	caiso_solar	CSO	physical	utility_pv
GARNET_1_UNITS	GARNET GREEN POWER PROJECT AGGREGA	16.5	caiso_wind	CSO	physical	in_state_wind_south
GARNET_1_WIND	GARNET WIND ENERGY CENTER	6.5	caiso_wind	CSO	physical	in_state_wind_south
GARNET_1_WIND5	GARNET WINDS AGGREGATION	22.5	caiso_wind	CSO	physical	in_state_wind_south
GARNET_1_WT2WND	WAGNER WIND	6	caiso_wind	CSO	physical	in_state_wind_south
GARNET_2_COAW02	COACHELLA 2	10.8	caiso_wind	CSO	physical	in_state_wind_south
GARNET_2_DIFW01	NAN	7.88	caiso_wind	CSO	physical	in_state_wind_south
GARNET_2_HYDRO	WHITEWATER HYDRO	1	caiso_small_hydro	CSO	physical	small_hydro
GARNET_2_WIND1	PHOENIX	11.2	caiso_wind	CSO	physical	in_state_wind_south
GARNET_2_WIND2	KAREN AVENUE WIND FARM	11.7	caiso_wind	CSO	physical	in_state_wind_south
GARNET_2_WIND3	SAN GORGONIO EAST	12.6	caiso_wind	CSO	physical	in_state_wind_south
GARNET_2_WIND4	WINDUSTRIES	9.4	caiso_wind	CSO	physical	in_state_wind_south
GARNET_2_WIND5	EASTWIND	3	caiso_wind	CSO	physical	in_state_wind_south
GARNET_2_WPMW06	WINTPEC PALM	5.93	caiso_wind	CSO	physical	in_state_wind_south
GASKW1_2_GW1SR1	GASKELL WEST 1	20	caiso_solar	CSO	physical	utility_pv
GASKW1_2_GW2B1T	GASKELL WEST 2 BESS	20	caiso_li_battery	CSO	physical	hr_batteries
GASKW1_2_GW2SR1	GASKELL WEST 2A	16	caiso_solar	CSO	physical	utility_pv
GASKW1_2_GW2SR2	GASKELL WEST 2B	26	caiso_solar	CSO	physical	utility_pv
GASKW1_2_GW3SR1	GASKELL WEST 3	20	caiso_solar	CSO	physical	utility_pv
GASKW1_2_GW4SR1	GASKELL WEST 4	20	caiso_solar	CSO	physical	utility_pv
GASKW1_2_GW5SR1	GASKELL WEST 5	20	caiso_solar	CSO	physical	utility_pv
GATES_2_SOLAR	GATES SOLAR STATION	20	caiso_solar	CSO	physical	utility_pv
GATES_2_W50SOLAR	WEST GATES SOLAR STATION	10	caiso_solar	CSO	physical	utility_pv
GATEWAY_2_GSB1T1	GATEWAY ENERGY STORAGE	250	caiso_li_battery	CSO	physical	hr_batteries
GATWAY_2_PL1X3	GATEWAY GENERATING STATION	585	caiso_crgt1	CSO	physical	gas_cc
GENESI_2_STG	GENESIS STATION	250	caiso_solar	CSO	physical	utility_pv
GEO_EAST_MESA_3_1	NAN	22	lid_geothermal	IID	physical	geothermal
GEO_EAST_MESA_3_2	NAN	22	lid_geothermal	IID	physical	geothermal
GEO_EAST_MESA_3_3	NAN	10	lid_geothermal	IID	physical	geothermal
GEYS11_7_UNIT11	GEYSERS UNIT 11 (HEADLSBURG)	86.8	caiso_geothermal	CSO	physical	geothermal
GEYS12_7_UNIT12	GEYSERS UNIT 12 (HEADLSBURG)	57	caiso_geothermal	CSO	physical	geothermal
GEYS13_7_UNIT13	GEYSERS UNIT 13 (HEADLSBURG)	73	caiso_geothermal	CSO	physical	geothermal
GEYS14_7_UNIT14	GEYSERS UNIT 14 (HEADLSBURG)	70	caiso_geothermal	CSO	physical	geothermal
GEYS16_7_UNIT16	GEYSERS UNIT 16 (HEADLSBURG)	63	caiso_geothermal	CSO	physical	geothermal
GEYS17_7_B0TRCK	NAN	10.01	caiso_geothermal	CSO	physical	geothermal
GEYS17_7_UNIT17	GEYSERS UNIT 17 (HEADLSBURG)	75.5	caiso_geothermal	CSO	physical	geothermal
GEYS18_7_UNIT18	GEYSERS UNIT 18 (HEADLSBURG)	72	caiso_geothermal	CSO	physical	geothermal
GEYS20_7_UNIT20	GEYSERS UNIT 20 (HEADLSBURG)	50	caiso_geothermal	CSO	physical	geothermal
GIFENS_6_BUGSL1	BURFORD GIFEN	20	caiso_solar	CSO	physical	utility_pv
GIFEN_6_SOLAR	GIFEN SOLAR STATION	10	caiso_solar	CSO	physical	utility_pv
GIFEN_6_SOLAR1	ASPIRATION SOLAR G	9	caiso_solar	CSO	physical	utility_pv
GILROY_1_UNIT	GILROY COGEN AGGREGATE	120	caiso_crgt1	CSO	physical	gas_ct
GILRPP_1_PL1X2	GILROY ENERGY CENTER UNITS 1&2 AGGRE	95.2	caiso_peaker2	CSO	physical	gas_ct
GILRPP_1_PL1X4	GILROY ENERGY CENTER UNIT #3	46.2	caiso_peaker2	CSO	physical	gas_ct
GILDFR_6_SOLAR1	PORTAL RIDGE B	20	caiso_solar	CSO	physical	utility_pv
GILDFR_6_SOLAR2	PORTAL RIDGE C	11.4	caiso_solar	CSO	physical	utility_pv
GLOTW0_6_COLUMN3	COLUMBA 3	10	caiso_solar	CSO	physical	utility_pv
GLOTW0_6_SOLAR	RIO GRANDE	5	caiso_solar	CSO	physical	utility_pv
GUNARM_2_UNIT5	GLENARM TURBINE 5	65.81	caiso_peaker2	CSO	physical	gas_cc
GUNARM_7_UNIT1	GLEN ARM UNIT 1	22.15	caiso_peaker2	CSO	physical	gas_ct
GUNARM_7_UNIT2	GLEN ARM UNIT 2	22.38	caiso_peaker2	CSO	physical	gas_ct
GUNARM_7_UNIT3	GLEN ARM UNIT 3	44.83	caiso_peaker1	CSO	physical	gas_ct
GUNARM_7_UNIT4	GLEN ARM UNIT 4	42.42	caiso_peaker1	CSO	physical	gas_ct
GLOW_6_SOLAR	ANTelope POWER PLANT	20	caiso_solar	CSO	physical	utility_pv
GOLETA_2_G2B1T3	GOLETA ENERGY STORAGE	60	caiso_li_battery	CSO	physical	hr_batteries
GOLETA_2_OF	GOLETA OPS	0.25	caiso_small_hydro	CSO	physical	small_hydro
GOLETA_2_VA1B1T1	VALLECITO ENERGY STORAGE	10	caiso_li_battery	CSO	physical	hr_batteries
GOLETA_6_ELLWOOD	ELLWOOD ENERGY SUPPORT FACILITY	54	caiso_peaker2	CSO	physical	gas_ct
GOLETA_6_EKGEN	EXXON COMPANY USA	48.2	caiso_chp	CSO	physical	cogen
GOLETA_6_GAYOTA	NAN	9.9	caiso_chp	CSO	physical	cogen
GOLETA_6_TAIIG5	NAN	2.84	caiso_biogas	CSO	physical	biogas
GOLETA_6_TR2BM2	TAIIGUAS BIOGAS ENGINES	1.99	caiso_biomass	CSO	physical	biogas
GOONL5_6_UNIT	JOHNSON CANYON LANDFILL	1.42	caiso_biomass	CSO	physical	biomass_wood
GOOSLK_1_SOLAR1	GOOSE LAKE	12	caiso_solar	CSO	physical	utility_pv
GRADYW_5_GDOW01	GRADY WIND	200	caiso_wind	AZPS	specifiedimport	out_of_state_wind_AZNM
GRAYSON_3	NAN	38	ldwp_st	LADWP	physical	steam
GRAYSON_4	NAN	40	ldwp_st	LADWP	physical	steam
GRAYSON_5	NAN	40	ldwp_st	LADWP	physical	steam

GRAYSON_9	NAN	48 ldwp_peaker	LADWP	physical	gas_ct
GRAYSON_CC	NAN	102 ldwp_cgt	LADWP	physical	gas_cc
GRIZLY_6_SOLAR	GRIZLEY MAIN TWO	2.5 caiso_solar	CSO	physical	utility_pv
GRIFFI_2_LSPDYN	GRIFFITH ENERGY	570 sw_crgt	WALC	specifiedimport	gas_cc
GRIZLY_1_UNIT1	GRIZZLY HYDRO	20 caiso_hydro	CSO	physical	hydro
GRINTE_6_ESCBT1	ENERSMART EL CAJON	3 caiso_li_battery	CSO	physical	hr_batteries
GRINFL_1_PL1X2	GREENLEAF 1	60 caiso_peaker2	CSO	physical	gas_ct
GRINFL_1_UNITS	NAN	49.2 caiso_peaker1	CSO	physical	gas_ct
GRINFL2_1_UNIT	GREENLEAF 1 COGEN	49.2 caiso_chp	CSO	physical	cogen
GRINVL2_7_SCLAND	SANTA CRUZ LANDFILL GENERATING PLANT	3.04 caiso_biomass	CSO	physical	biomass_wood
GISCNR_6_BGCXKW	BIG CREEK WATER WORKS - CEDAR FLAT	5 caiso_small_hydro	CSO	physical	small_hydro
GRIZLY_1_BERKLY	BERKELEY COGENERATION	26.35 caiso_chp	CSO	physical	cogen
GUERNS_6_HDBM3	HANFORD DIGESTER GENSET 3	1 caiso_biogas	CSO	physical	biogas
GUERNS_6_SOLAR	GUERNSEY SOLAR STATION	20 caiso_solar	CSO	physical	biogas
GUERNS_6_VH2B1	HANFORD DIGESTER GENSET 2	1 caiso_biogas	CSO	physical	biogas
GWPPWR_1_UNITS	HANFORD PEAKER PLANT	98.46 caiso_peaker2	CSO	physical	gas_ct
GYSXSG_7_UNITS	GEYSERS UNITS 5 & 6 AGGREGATE	98.43 caiso_geothermal	CSO	physical	geothermal
GYSRV_7_WSPRNG	GEYSERS UNITS 7 & 8 AGGREGATE	95.8 caiso_geothermal	CSO	physical	geothermal
HAASPH_7_PL1X2	WARM SPRINGS HYDRO	3.75 caiso_small_hydro	CSO	physical	small_hydro
HAUSEY_6_UNIT	HAAS PH UNIT 1 & 2 AGGREGATE	144 caiso_hydro	CSO	physical	hydro
HAMLIN_1_BLDGB1_LSR	HALEY HYDRO	13.5 caiso_small_hydro	CSO	physical	small_hydro
HAMLIN_1_BLDGB1_SUN	BALDY MESA HYBRID	75 caiso_li_battery	CSO	physical	hr_batteries
HAMLIN_1_BMSBT2	BALDY MESA HYBRID	150 caiso_solar	CSO	physical	utility_pv
HARBOR_7_UNITS	BALDY MESA SP	50 caiso_solar	CSO	physical	utility_pv
HARBOR_CC	HARBOR COGEN COMBINED CYCLE	109.01 caiso_cgt2	CSO	physical	gas_cc
HARBOR_UNIT_10	NAN	211 ldwp_cgt	LADWP	physical	gas_cc
HARBOR_UNIT_11	NAN	49 ldwp_peaker	LADWP	physical	gas_ct
HARBOR_UNIT_12	NAN	49 ldwp_peaker	LADWP	physical	gas_ct
HARBOR_UNIT_13	NAN	49 ldwp_peaker	LADWP	physical	gas_ct
HARBOR_UNIT_14	NAN	49 ldwp_peaker	LADWP	physical	gas_ct
HAROWK_6_STWB1	STILL WATER RANCH DAIRY	1 caiso_biogas	CSO	physical	biogas
HAT_CREEK_BIOENERGY_ILC	NAN	2.88 caiso_biomass	CSO	physical	biomass_wood
HATCH2_7_UNIT	HAT CREEK #1	8.5 caiso_small_hydro	CSO	physical	small_hydro
HATCR2_2_UNIT	HAT CREEK #2	8.5 caiso_small_hydro	CSO	physical	small_hydro
HATLOS_6_BWDHY1	BIOWELL DITCH	2 caiso_hydro	CSO	physical	hydro
HATLOS_6_LSCN	LOST CREEK 1 & 2 HYDRO CONVERSION	1.7 caiso_small_hydro	CSO	physical	small_hydro
HATROG_2_WIND	HATCHET RIDGE WIND FARM	102 caiso_wind	CSO	physical	in_state_wind_north
HAYNES_1	NAN	222 ldwp_st	LADWP	physical	steam
HAYNES_11	NAN	96 ldwp_peaker	LADWP	physical	gas_ct
HAYNES_12	NAN	96 ldwp_peaker	LADWP	physical	gas_ct
HAYNES_13	NAN	96 ldwp_peaker	LADWP	physical	gas_ct
HAYNES_14	NAN	96 ldwp_peaker	LADWP	physical	gas_ct
HAYNES_15	NAN	96 ldwp_peaker	LADWP	physical	gas_ct
HAYNES_16	NAN	96 ldwp_peaker	LADWP	physical	gas_ct
HAYNES_2	NAN	222 ldwp_st	LADWP	physical	steam
HAYNES_CC	NAN	590 ldwp_cgt	LADWP	physical	gas_cc
HAYPRS_6_HAYH01	HAYPRESS LOWER	5.6 caiso_small_hydro	CSO	physical	small_hydro
HAYPRS_6_HAYH02	HAYPRESS MIDDLE	6.7 caiso_small_hydro	CSO	physical	small_hydro
HEBER_GEO_1	NAN	8.75 id_geothermal	IID	physical	geothermal
HEBER_GEO_2	NAN	4.37 id_geothermal	IID	physical	geothermal
HEBER_GEO_COMPLEX	NAN	52 id_geothermal	IID	physical	geothermal
HEBER_3	NAN	16 id_geothermal	IID	physical	geothermal
HEBER_SOLAR_PV	NAN	10 id_solar	IID	physical	utility_pv
HEDGE_SOLAR	NAN	1.5 banc_solar	BANC	physical	utility_pv
HELMPG_7_UNIT 1	HELMES PUMP-GEN UNIT 1	407 caiso_pumped_hydro	CSO	physical	pumped_storage
HELMPG_7_UNIT 2	HELMES PUMP-GEN UNIT 2	407 caiso_pumped_hydro	CSO	physical	pumped_storage
HELMPG_7_UNIT 3	HELMES PUMP-GEN UNIT 3	404 caiso_pumped_hydro	CSO	physical	pumped_storage
HENRTA_6_ACD5R3	AVENAL CUTOFF DAC SPRING SOLAR	3 caiso_solar	CSO	physical	utility_pv
HENRTA_6_H0BT1	HENRIETTA ENERGY STORAGE	10 caiso_li_battery	CSO	physical	hr_batteries
HENRTA_6_SOLAR1	LEMORE 1	1.5 caiso_solar	CSO	physical	utility_pv
HENRTA_6_SOLAR2	WESTSIDE SOLAR POWER PV1	2 caiso_solar	CSO	physical	utility_pv
HENRTA_6_UNIT1	GWf HENRIETTA PEAKER PLANT UNIT 1	49.98 caiso_peaker2	CSO	physical	gas_ct
HENRTA_6_UNIT2	GWf HENRIETTA PEAKER PLANT UNIT 2	49.92 caiso_peaker2	CSO	physical	gas_ct
HENRTS_1_SOLAR	HENRIETTA SOLAR PROJECT	100 caiso_solar	CSO	physical	utility_pv
HERDUN_6_BYHSR1	BYRON HIGHWAY SOLAR	5 caiso_solar	CSO	physical	utility_pv
HIDSR2_2_UNITS	HIGH DESERT POWER PROJECT AGGREGATE	850 caiso_cgt1	CSO	physical	gas_cc
HIGGNS_1_COMBIE	COMBIE SOUTH	1.5 caiso_small_hydro	CSO	physical	small_hydro
HIGGNS_7_OFUNTS	HIGGNS_7_OFUNTS	0.5 caiso_hydro	CSO	physical	hydro
HIGHDS_2_H5SBT1	HIGH 5 SOLAR BESS	50 caiso_li_battery	CSO	physical	hr_batteries
HIGHDS_2_H5SR1	HIGH 5 SOLAR	100 caiso_solar	CSO	physical	utility_pv
HILAND_7_YOLCWD	CLEAR LAKE UNIT 1	3.75 caiso_hydro	CSO	physical	utility_pv
HINSON_6_CARBN	BP WILMINGTON CALCINER	30 caiso_chp	CSO	physical	cogen
HINSON_6_LBEC1	LONG BEACH UNIT 1	63 caiso_peaker2	CSO	physical	gas_ct
HINSON_6_LBEC2	LONG BEACH UNIT 2	63 caiso_peaker2	CSO	physical	gas_ct
HINSON_6_LBEC3	LONG BEACH UNIT 3	63 caiso_peaker2	CSO	physical	gas_ct
HINSON_6_LBEC4	LONG BEACH UNIT 4	63 caiso_peaker2	CSO	physical	gas_ct
HINSON_6_SERGRN	SOUTHEAST RESOURCE RECOVERY	34 caiso_chp	CSO	physical	cogen
HINTBR_6_UNITS	HAMILTON BRANCH PH (AGGREGATE)	4.9 caiso_small_hydro	CSO	physical	small_hydro
HNTGBH_2_PL1X3	HUNTINGTON BEACH ENERGY	673.8 caiso_cgt1	CSO	physical	gas_cc
HNTGBH_7_UNIT 2	HUNTINGTON BEACH GEN STA. UNIT 2	226.84 caiso_st	CSO	physical	steam
HOLGAT_1_BORAK	U.S. BORAX, UNIT 1	48.2 caiso_chp	CSO	physical	cogen
HOLSTR_1_SOLAR	SAN BENITO SMART PARK	1.5 caiso_solar	CSO	physical	utility_pv
HOLSTR_1_SOLAR2	HOLLISTER SOLAR	1.5 caiso_solar	CSO	physical	utility_pv
HOOLEYDIGESTER1	NAN	0.2 caiso_biomass	CSO	physical	biomass_wood
HOOLEYDIGESTER2	NAN	0.2 caiso_biomass	CSO	physical	biomass_wood
HOVER_2_ANAPT	HOOPER POWER PLANT	40.39 WATER	CSO	physical	hydro
HOVER_3_MWDVYN	HOOPER	249 caiso_hydro	WALC	physical	hydro
HOVER_2_VEDVYN	HOOPER DAM - SCE SHARE	287 WATER	CSO	physical	hydro
HUCSDN_NANO1	HOOPER	16 caiso_hydro	WALC	physical	hydro
HUMBPP_3_UNITS3	NAN	64.8 id_geothermal	IID	physical	geothermal
HUMBPP_6_UNITS	HUMBOLDT BAY GENERATING STATION 3	65.08 caiso_reciprocating_engine	CSO	physical	ice
HUMBSS_1_QF	HUMBOLDT BAY GENERATING STATION 1	97.62 caiso_reciprocating_engine	CSO	physical	ice
HUMMINGBIRDSSTORAGE	SMALL QF AGGREGATION - TRINITY	1.25 caiso_hydro	CSO	physical	hydro
HURON_6_SOLAR	NAN	75 caiso_li_battery	CSO	physical	hr_batteries
HYTHM_2_UNITS	HURON SOLAR STATION	20 caiso_solar	CSO	physical	utility_pv
IGNACO_1_QF	HYATT-THERMALITO PUMP-GEN (AGGREGATE)	933.1 caiso_hydro	CSO	physical	hydro
IMPERIAL_VALLEYVSC2	SMALL QF AGGREGATION - VALLEJO/DINOSA	0.5 caiso_chp	CSO	physical	cogen
INDIGO_1_UNIT1	NAN	20 id_solar	IID	physical	utility_pv
INDIGO_1_UNIT2	INDIGO PEAKER UNIT 1	45.3 caiso_peaker2	CSO	physical	gas_ct
INDIGO_1_UNIT2	INDIGO PEAKER UNIT 2	45.3 caiso_peaker2	CSO	physical	gas_ct
INDIGO_1_UNIT3	INDIGO PEAKER UNIT 3	45.3 caiso_peaker2	CSO	physical	gas_ct
INDVLT_1_UNITS	INDIAN VALLEY HYDRO	3.01 caiso_small_hydro	CSO	physical	small_hydro
INSKP_2_UNIT	INSKP HYDRO	8 caiso_hydro	CSO	physical	hydro
INTERMOUNTAIN_1	NAN	849.97 ldwp_coal	LADWP	physical	coal
INTERMOUNTAIN_2	NAN	849.97 ldwp_coal	LADWP	physical	coal
INTKPR_2_UNITS	CCSF HETCH, HETCHY HYDRO AGGREGATE	405 caiso_hydro	CSO	physical	hydro
INTMTNT_3_ANAHEIM	INTERMOUNTAIN POWER PROJECT	234 ldwp_coal	LADWP	specifiedimport	coal
INTMTNT_3_PASADENA	INTERMOUNTAIN POWER PROJECT	107 ldwp_coal	LADWP	specifiedimport	coal
INTMTNT_3_RIVERSIDE	PPDYN	136 ldwp_coal	LADWP	specifiedimport	coal
INTTRB_6_UNIT	INTERNATIONAL TURBINE RESEARCH	18.4 caiso_wind	CSO	physical	in_state_wind_north
IVANPA_1_UNIT1	IVANPAH 1	126 caiso_solar	CSO	physical	utility_pv
IVANPA_1_UNIT2	IVANPAH 2	133 caiso_solar	CSO	physical	utility_pv
IVANPA_1_UNIT3	IVANPAH 3	133 caiso_solar	CSO	physical	utility_pv
IVSR2_2_SM2SR1	SILVER RIDGE MOUNT SIGNAL 2	150 caiso_solar	CSO	physical	utility_pv
IVSRP_2_SOLAR1	SILVER RIDGE MOUNT SIGNAL	200 caiso_solar	CSO	physical	utility_pv
IWVEST_2_SOLAR1	IMPERIAL VALLEY WEST (1 & 608)	150 caiso_solar	CSO	physical	utility_pv
JACKSP_1_JACR1	JACUMBA SOLAR FARM	20 caiso_solar	CSO	physical	utility_pv
JANCRK_6_RCABT1	REDWOOD COAST AIRPORT MICROGRID	1.75 caiso_li_battery	CSO	physical	hr_batteries
JAVASR_1_JAVSR1	NAN	13.5 caiso_solar	CSO	physical	utility_pv
JAWBNE_2_NSRWVD	NORTH SKY RIVER WIND PROJECT	160 caiso_wind	CSO	physical	in_state_wind_south
JAWBNE_2_SRWVD	NAN	30 caiso_wind	CSO	physical	in_state_wind_south
JAWBNE_2_SRWVD2	SKY RIVER WIND REPOWER B	30.2 caiso_wind	CSO	physical	in_state_wind_south
JAYNE_6_WLSLR	WESTLANDS SOLAR FARM PV 1	18 caiso_solar	CSO	physical	utility_pv
JJ_ELMORE	NAN	42 id_geothermal	IID	physical	geothermal
JOANEC_2_STABT3	SANTA ANA STORAGE 3	40 caiso_li_battery	CSO	physical	hr_batteries
JOANEC_2_STABT1	SANTA ANA STORAGE 1	20 caiso_li_battery	CSO	physical	hr_batteries
JOANEC_2_STABT2	SANTA ANA STORAGE 2	20 caiso_li_battery	CSO	physical	hr_batteries
JOHANN_2_JOSBT1	JOHANNA STORAGE 1	10 caiso_li_battery	CSO	physical	hr_batteries
JOHANN_2_JOSBT2	JOHANNA STORAGE 2	10 caiso_li_battery	CSO	physical	hr_batteries
JOHANN_2_OCBT2	ORANGE COUNTY ENERGY STORAGE 2	9 caiso_li_battery	CSO	physical	hr_batteries
JOHANN_2_OCBT3	ORANGE COUNTY ENERGY STORAGE 3	6 caiso_li_battery	CSO	physical	hr_batteries
JOHANN_2_T1ABT1	TITANIUM 1 BESS	1.4 caiso_li_battery	CSO	physical	hr_batteries
K_ROAD_MOAPA	NAN	250 ldwp_solar	LADWP	physical	utility_pv
K_ROAD_MODESTO	NAN	26.32 banc_solar	BANC	physical	utility_pv
KANSAS_6_SOLAR	RE KANSAS SOUTH	20 caiso_solar	CSO	physical	utility_pv
KEARNY_6_NESBT1	KEARNY NORTH ENERGY STORAGE	10 caiso_li_battery	CSO	physical	hr_batteries
KEARNY_6_SESBT2	KEARNY SOUTH ENERGY STORAGE	10 caiso_li_battery	CSO	physical	hr_batteries
KEKAWK_6_UNIT	STS HYDROPOWER LTD. (KEKAWAKA)	5.5 caiso_small_hydro	CSO	physical	small_hydro
KELSO_2_UNITS	MARIPOSA ENERGY	188.03 caiso_peaker1	CSO	physical	gas_ct
KELVNG_6_UNIT	KELLY RIDGE HYDRO	11 caiso_small_hydro	CSO	physical	small_hydro
KERKHQ_7_UNIT 1	KERKHOFF PH 2 UNIT #1	153.9 caiso_hydro	CSO	physical	hydro
KERMAN_6_SOLAR1	FRESNO SOUTH	1.5 caiso_solar	CSO	physical	utility_pv
KERMAN_6_SOLAR2	FRESNO SOLAR WEST	1.5 caiso_solar	CSO	physical	utility_pv
KERNET_6_FCSR1	FRESNO COMMUNITY SOLAR	10 caiso_solar	CSO	physical	utility_pv
KERNFT_1_UNITS	KERN FRONT LIMITED	52.4 caiso_chp	CSO	physical	cogen
KERNRG_1_UNITS	SOUTH BELBRIDGE COGEN FACILITY	55.2 caiso_chp	CSO	physical	cogen
KERRGN_1_UNIT1	KERN RIVER HYDRO UNITS 1-4 AGGREGATE	25.6 caiso_hydro	CSO	physical	hydro
KIEFER_LANDFILL_1_1	NAN	3.5 caiso_biomass	BANC	physical	biogas
KIEFER_LANDFILL_1_2	NAN	3.5 caiso_biomass	BANC	physical	biogas
KIEFER_LANDFILL_1_3	NAN	3.5 caiso_biomass	BANC	physical	biogas
KIEFER_LANDFILL_2_1	NAN	3.5 caiso_biomass	BANC	physical	biogas
KIEFER_LANDFILL_2_2	NAN	3.5 caiso_biomass	BANC	physical	biogas
KILARC_2_UNIT1	KILARC HYDRO	1.5 caiso_small_hydro	CSO	physical	small_hydro

KINGCO_1_KINGBR	KINGSBURG COGEN	34.5 calso_chp	CSO	physical	cogen
KINGRV_2_UNIT1	KINGS RIVER HYDRO UNIT 1	51.2 calso_hydro	CSO	physical	hydro
KIRKER_7_KELCWN	KELLER CANYON LANDFILL GEN FACILITY	3.56 calso_biomass	CSO	physical	biomass_wood
KINGBRD_2_SOLAR1	KINGBRD SOLAR A	20 calso_solar	CSO	physical	utility_pv
KINGBRD_2_SOLAR2	KINGBRD SOLAR B	20 calso_solar	CSO	physical	utility_pv
KINGBRG_1_KBSR1	KINGSBURG1	1.5 calso_solar	CSO	physical	utility_pv
KINGBRG_1_KBSR2	KINGSBURG2	1.5 calso_solar	CSO	physical	utility_pv
KINGCTY_6_UNITA1	KING CITY ENERGY CENTER, UNIT 1	44.6 calso_peaker2	CSO	physical	gas_ct
KNTSTH_6_SOLAR	KENT SOUTH	20 calso_solar	CSO	physical	utility_pv
KNTSTH_6_WALSRL	WESTLANDS ALMOND	19.88 calso_solar	CSO	physical	utility_pv
KRAMER_1_K5SRS	NAN	80 calso_solar	CSO	physical	utility_pv
KRAMER_1_R1BX3	RESURGENCE 1 BESS	75 calso_li_battery	CSO	physical	hr_batteries
KRAMER_1_R1PX3	RESURGENCE 1 PV	90 calso_solar	CSO	physical	utility_pv
KRAMER_1_R2BX2	RESURGENCE 2 BESS	40 calso_li_battery	CSO	physical	hr_batteries
KRAMER_1_R2PX2	RESURGENCE 2 PV	48 calso_solar	CSO	physical	utility_pv
KRAMER_1_SEGS37	NAN	72.05762309 calso_solar	CSO	physical	utility_pv
KRAMER_1_SEGS83	NAN	30 calso_solar	CSO	physical	utility_pv
KRAMER_1_SEGS94	NAN	30.88182847 calso_solar	CSO	physical	utility_pv
KRAMER_2_SEGS 8	KRAMER JUNCTION 8	80 calso_solar	CSO	physical	utility_pv
KRAMER_2_SEGS 9	KRAMER JUNCTION 9	80 calso_solar	CSO	physical	utility_pv
KRAMER_2_SEGS89	NAN	80 calso_solar	CSO	physical	utility_pv
KRWNCV_6_UNIT	KERN CANYON POWERHOUSE	10.6 calso_small_hydro	CSO	physical	small_hydro
KYCORA_6_KMSBT1	KEARNY MESA STORAGE	1 calso_li_battery	CSO	physical	hr_batteries
LACIEN_2_VENICE	MWD VENICE HYDROELECTRIC RECOVERY F	9.95 calso_hydro	CSO	physical	hydro
LACBIE_2_CBPBT1	CALD BESS 1	100 calso_li_battery	CSO	physical	hr_batteries
LACBIE_6_OF	NAN	0.15 calso_chp	CSO	physical	cogen
LAKE	NAN	51 ldwp_peaker	LADWP	physical	gas_ct
LAKEBODE_BIOGAS_LLC	NAN	3 calso_biomass	CSO	physical	biogas
LAKHDG_6_UNIT 1	LAKE HODGES PUMPED STORAGE-UNIT1	20 calso_pumped_hydro	CSO	physical	pumped_storage
LAKHDG_6_UNIT 2	LAKE HODGES PUMPED STORAGE-UNIT2	20 calso_pumped_hydro	CSO	physical	pumped_storage
LAMONT_1_SOLAR1	REGULUS SOLAR	60 calso_solar	CSO	physical	utility_pv
LAMONT_1_SOLAR2	REDWOOD SOLAR FARM 4	20 calso_solar	CSO	physical	utility_pv
LAMONT_1_SOLAR3	WOODMERE SOLAR FARM	14.99 calso_solar	CSO	physical	utility_pv
LAMONT_1_SOLAR4	HAYWORTH SOLAR FARM	26.66 calso_solar	CSO	physical	utility_pv
LAMONT_1_SOLAR5	REDCREST SOLAR FARM	16.66 calso_solar	CSO	physical	utility_pv
LAPAC_6_UNIT	LOUISIANA PACIFIC SAMOA	20 calso_biomass	CSO	physical	biomass_wood
LAPLMA_2_UNIT 1	LA PALOMA GENERATING PLANT UNIT #1	267 calso_cgt1	CSO	physical	gas_cc
LAPLMA_2_UNIT 2	LA PALOMA GENERATING PLANT UNIT #2	266 calso_cgt1	CSO	physical	gas_cc
LAPLMA_2_UNIT 3	LA PALOMA GENERATING PLANT UNIT #3	266 calso_cgt1	CSO	physical	gas_cc
LAPLMA_2_UNIT 4	LA PALOMA GENERATING PLANT, UNIT #4	267 calso_cgt1	CSO	physical	gas_cc
LARKSP_6_UNIT 1	LARKSPUR PEAKER UNIT 1	49 calso_peaker1	CSO	physical	gas_ct
LARKSP_6_UNIT 2	LARKSPUR PEAKER UNIT 2	49 calso_peaker1	CSO	physical	gas_ct
LAROAZ_2_UNITA1	LR2	322 calso_cgt2	CSO	physical	gas_cc
LASSEN_6_UNITS	HONEY LAKE POWER	30 calso_biomass	CSO	physical	biomass_wood
LAWNVC_2_SUNWVL	CITY OF SUNNYSVALE UNIT 1 AND 2	0.3 calso_chp	CSO	physical	cogen
LOCHT1_2_LH1BT1	LOCKHART SOLAR BESS 1	45 calso_li_battery	CSO	physical	hr_batteries
LOCHT1_2_LH1SR1	LOCKHART SOLAR 1 PV	85 calso_solar	CSO	physical	utility_pv
LOCHT1_2_LH1SR2	LOCKHART SOLAR 2	75 calso_solar	CSO	physical	utility_pv
LEATHRD	NAN	62 bid_geothermal	ID	physical	geothermal
LEBECB_2_UNITS	PASTORIA ENERGY FACILITY	799.47 calso_cgt1	CSO	physical	gas_cc
LECECF_1_UNITS	LOS ESTEROS ENERGY FACILITY AGGREGAT	309.84 calso_cgt2	CSO	physical	gas_cc
LECONT_2_L3SBT1	LECONTE ENERGY STORAGE	125 calso_li_battery	CSO	physical	hr_batteries
LEPRFD_1_KANSAS	KANSAS	20 calso_solar	CSO	physical	utility_pv
LGHTRP_6_ICGEN	CARSON COGENERATION	48 calso_cgt1	CSO	physical	gas_ct
LHLLS_6_SOLAR1	LOST HILLS SOLAR	20 calso_solar	CSO	physical	utility_pv
LHLLC_6_SOLAR	MESA CREST	1 calso_solar	CSO	physical	utility_pv
LITURK_6_GBCSR1	GREEN BEANWORKS C	3 calso_solar	CSO	physical	utility_pv
LITURK_6_SEPV01	GESTAMP SOLAR 1	2 calso_solar	CSO	physical	utility_pv
LITURK_6_SOLAR1	LANCASTER LITTLE ROCK C	5 calso_solar	CSO	physical	utility_pv
LITURK_6_SOLAR2	PALMDALE 1B	2 calso_solar	CSO	physical	utility_pv
LITURK_6_SOLAR3	ONE TEN PARTNERS	2 calso_solar	CSO	physical	utility_pv
LITURK_6_SOLAR4	LITTLE ROCK PHAM SOLAR	3 calso_solar	CSO	physical	utility_pv
LIVEOK_6_SOLAR	HARRIS	1.25 calso_solar	CSO	physical	utility_pv
LIVDNC_1_UNIT 1	LIVE OAK LIMITED	49.7 calso_peaker2	CSO	physical	gas_ct
LLAGAS	NAN	20 calso_li_battery	CSO	physical	hr_batteries
LMBEPK_2_UNITA1	LAMBBIE ENERGY CENTER, UNIT #1	47.5 calso_peaker2	CSO	physical	gas_ct
LMBEPK_2_UNITA2	CRED ENERGY CENTER, UNIT #1	47.6 calso_peaker2	CSO	physical	gas_ct
LMBEPK_2_UNITA3	GOOSE HAVEN ENERGY CENTER, UNIT #1	47.75 calso_peaker2	CSO	physical	gas_cc
LMEC_1_PL1X3	LOS MEDANOS ENERGY CENTER AGGREGAT	580 calso_cgt1	CSO	physical	gas_cc
LNCSSTR_6_CREST	NAN	5.5 calso_solar	CSO	physical	utility_pv
LNCSSTR_6_SOLAR2	SEPV SIERRA NGR	8.25 calso_solar	CSO	physical	utility_pv
LOCKFD_1_BEARCK	BEAR CREEK SOLAR	1.5 calso_solar	CSO	physical	utility_pv
LOCKFD_1_KSOLAR	KETTLEMAN SOLAR	1 calso_solar	CSO	physical	utility_ct
LOOQZ5_2_UNIT 1	LODI GAS TURBINE	25 calso_peaker2	CSO	physical	gas_ct
LOOQZ5_2_PL1X2	LODI ENERGY CENTER	302.58 calso_cgt1	CSO	physical	gas_cc
LOTUS_6_L5CR1	LOTUS SOLAR FARM	50 calso_solar	CSO	physical	small_hydro
LOWGAP_1_SUPHR	MILL & SULPHUR CREEK HYDRO	0.99 calso_small_hydro	CSO	physical	small_hydro
LOWGAP_2_QFUNTS	MATTHEWS DAM HYDRO	1.35 calso_hydro	CSO	physical	hydro
LTBEAR_1_LB5SR3	LITTLE BEAR 3 SOLAR	20 calso_solar	CSO	physical	utility_pv
LTBEAR_1_LB5SR4	LITTLE BEAR 4	50 calso_solar	CSO	physical	utility_pv
LTBEAR_1_LB4SR5	LITTLE BEAR 4 SOLAR 5	50 calso_solar	CSO	physical	utility_pv
LTBERA_1_LB1SR1	LITTLE BEAR SOLAR 1	40 calso_solar	CSO	physical	utility_pv
LYNOST_1_WYASRL	WEST TAMBO CLEAN POWER II	2 calso_solar	CSO	physical	utility_pv
MAGNLA_6_ANAHEIM	MAGNOLIA POWER PLANT ANAHEIM	109 ldwp_cgt1	LADWP	specifiedimport	gas_cc
MAGNLA_6_CERRITOS	MAGNOLIA POWER PLANT CERRITOS	12 ldwp_cgt1	LADWP	specifiedimport	gas_cc
MAGNLA_6_COLTON	MAGNOLIA POWER PROJECT	12 calso_cgt1	LADWP	specifiedimport	gas_cc
MAGNLA_6_PASADENA	MAGNOLIA POWER PLANT -PASADENA	18 calso_cgt1	LADWP	specifiedimport	gas_cc
MAGNOLIA_CC	MAGNOLIA	301 ldwp_cgt1	LADWP	physical	gas_cc
MAGUND_1_BK1SR1	BAKERSFIELD INDUSTRIAL 1	1 calso_solar	CSO	physical	utility_pv
MAGUND_1_BK5SR2	BAKERSFIELD SOLAR 1	5.25 calso_solar	CSO	physical	utility_pv
MALAGA_1_PL1X2	MALAGA POWER AGGREGATE	96.61 calso_peaker1	CSO	physical	gas_ct
MALCHQ7_UNIT 1	MALACHA HYDRO L.P.	32.5 calso_hydro	CSO	physical	hydro
MALIN_5_BPADYN	MALIN_5_BPADYN	700 CAISO_Imports	BPAT	specifiedimport	n/a
MALIN_5_GCPDYN	GRANT COUNTY HYDRO FACILITIES	125 calso_hydro	BPAT	specifiedimport	hydro
MALIN_5_HERMODYN	MALIN_5_HERMODYN	308 nw_cgt1	BPAT	specifiedimport	gas_cc
MALIN_5_IHEROR	BERDORA CENTROID SYSTEM RESOURCE	100 calso_wind	BPAT	specifiedimport	out_of_state_wind_WAOR
MALIN_5_INHRED	BSF COLUMBIA GORGE	50 calso_wind	BPAT	specifiedimport	out_of_state_wind_WAOR
MALIN_5_INHRRG	CHICLOW CANYON	50 calso_wind	BPAT	specifiedimport	out_of_state_wind_WAOR
MANITIC_1_MLSR1	MANTICA LAND 1	1 calso_solar	CSO	physical	utility_pv
MANZNA_2_WIND	MANZANA WIND	189 calso_wind	CSO	physical	in_state_wind_south
MARCPW_6_SOLAR1	MARICOPA WEST SOLAR PV	20 calso_solar	CSO	physical	utility_pv
MARTIN_1_SUNSET	SUNSET RESERVOIR - NORTH BASIN	4.5 calso_solar	CSO	physical	utility_pv
MARVEL_2_MARBTT3	MARVEL 2	74.94 calso_li_battery	CSO	physical	hr_batteries
MARVEL_2_MARBX2	MARVEL	325 calso_li_battery	CSO	physical	hr_batteries
MCCARTH_6_FRVBR	FALL RIVER MILLS PROJECT B	1.5 calso_solar	CSO	physical	utility_pv
MCCAL_1_OF	FISH WATER	0.52 calso_small_hydro	CSO	physical	small_hydro
MCCLELLAN_1	NAN	74 banc_peaker	BANC	physical	gas_ct
MCCURE_1	NAN	62 banc_peaker	BANC	physical	gas_ct
MCCURE_2	NAN	74 banc_peaker	BANC	physical	gas_ct
MCFLND_5_MKAXLL1	MCFARLAND SOLAR	6 SW SOLAR	A2PS	specifiedimport	out_of_state_wind_A2NM
MCFLND_5_MFSBT1	MCFARLAND SOLAR A BESS	100 calso_li_battery	CSO	physical	hr_batteries
MCFLND_5_MFSR1	MCFARLAND SOLAR A PV	200 calso_solar	CSO	physical	utility_pv
MCFLND_5_M5B8K2	MCFARLAND SOLAR B BESS	150 calso_li_battery	CSO	physical	hr_batteries
MCFLND_5_M5B9K2	MCFARLAND SOLAR B PV	300 calso_solar	CSO	physical	utility_pv
MC5WAN_6_UNITS	MC SWAIN HYDRO	9 calso_hydro	CSO	physical	hydro
MODKRL_2_PROJECT	MIDDLE FORK AND RALSTON PSP	210 calso_hydro	CSO	physical	hydro
MELROSESTORAGE1	NAN	20 calso_li_battery	CSO	physical	hr_batteries
MELRSE_6_MELBT1	MELROSE BESS 1	10 calso_li_battery	CSO	physical	hr_batteries
MELRSE_6_MELBT2	MELROSE BESS 2	10 calso_li_battery	CSO	physical	hr_batteries
MENBIO_6_RENEW1	CALRENEW - 1(A)	5 calso_solar	CSO	physical	utility_pv
MENBIO_6_UNIT	NAN	25 calso_biomass	CSO	physical	biomass_wood
MERCED_2_SOLAR1	MISSION SOLAR	1.5 calso_solar	CSO	physical	utility_pv
MERCED_2_SOLAR2	MERCED SOLAR	1.5 calso_solar	CSO	physical	utility_pv
MERCPL_6_UNIT	MERCED FALLS POWERHOUSE	3.5 calso_small_hydro	CSO	physical	small_hydro
MESAP_1_OF	SMALL OF AGGREGATION - SAN LUIS OBISPO	1 calso_chp	CSO	physical	cogen
MESAS_2_CADBT1	CADILLAC 1 BESS	3.5 calso_li_battery	CSO	physical	hr_batteries
MESAS_2_OF	NAN	2.9 calso_chp	CSO	physical	cogen
MESAS_2_YORBT1	YORKTOWN 1 BESS	3 calso_li_battery	CSO	physical	hr_batteries
MESQUTTE_RECOVERY	NAN	27 calso_biomass	ID	physical	biogas
METTC_2_PL1X3	METCAL ENERGY CENTER	597.05 calso_cgt1	CSO	physical	gas_cc
MIDSUN_1_PL1X2	NORTH MIDWAY COGENS SA 5B	9.6 calso_peaker2	CSO	physical	gas_ct
MIDWD_2_WIND1	NAN	7.81 calso_wind	CSO	physical	in_state_wind_south
MIDWD_2_WIND2	CORAM ENERGY	3 calso_wind	CSO	physical	in_state_wind_south
MIDWD_6_WINDLD	NAN	7.45 calso_wind	CSO	physical	in_state_wind_south
MIDWD_7_CORAMB	CELL C 7.5 MW TEHACHAPI PROJECT	7.5 calso_wind	CSO	physical	in_state_wind_south
MIDWY3_2_MDSR1	MIDWAY SOUTH SOLAR FARM	20 calso_solar	CSO	physical	utility_pv
MIDWY3_2_MDSL1	MIDWAY SOLAR FARM	49.9 calso_solar	CSO	physical	utility_pv
MILFORD_WIND_1_1	NAN	145 nw_wind	LADWP	physical	out_of_state_wind_WYID
MILFORD_WIND_1_2	NAN	58.5 nw_wind	LADWP	physical	out_of_state_wind_WYID
MILFORD_WIND_2	NAN	100 nw_wind	LADWP	physical	out_of_state_wind_WYID
MILFRO_7_PASADENA	MILFORD 1	5 nw_wind	LADWP	specifiedimport	out_of_state_wind_WYID
MIRLOM_2_CORONA	MWD CORONA HYDROELECTRIC RECOVERY	2.85 calso_hydro	CSO	physical	hydro
MIRLOM_2_CREST	TEMESCAL CANYON RV	1.5 calso_solar	CSO	physical	utility_pv
MIRLOM_2_LNDF1	MILLIKEN LANDFILL SOLAR	3 calso_solar	CSO	physical	utility_pv
MIRLOM_2_MLBNTA	MIRA LOMA BESS A	10 calso_li_battery	CSO	physical	hr_batteries
MIRLOM_2_MLBNTB	MIRA LOMA BESS B	10 calso_li_battery	CSO	physical	hr_batteries
MIRLOM_2_ONTARO	ONTARIO RT SOLAR	5.5 calso_solar	CSO	physical	utility_pv
MIRLOM_2_RTS022	SPV032	1.5 calso_solar	CSO	physical	utility_pv
MIRLOM_2_RTS033	SPV033	1 calso_solar	CSO	physical	utility_pv
MIRLOM_2_TEMESC	MWD TEMESCAL HYDROELECTRIC RECOVER	2.85 calso_hydro	CSO	physical	hydro
MIRLOM_6_PEAKER	MIRA LOMA PEAKER	47.18 calso_peaker1	CSO	physical	gas_ct
MIRLOM_7_MWDVAM	LAKE MATTHEWS HYDROELECTRIC RECOVER	5 calso_hydro	CSO	physical	hydro
MESOL_1_OF	SMALL OF AGGREGATION - SAN FRANCISCO	1 calso_chp	CSO	physical	cogen
MKCTRCK_1_UNIT 1	MCKITTRICK LIMITED	47.72 calso_peaker2	CSO	physical	gas_ct

MLPTAS_7_OFUNTS	MLPTAS_7_OFUNTS	1 calso_chp	CSO	physical	cogen
NM_50_MIRAMAR2	NAN	1 calso_biomass	CSO	physical	biomass_wood
MNDAY_6_MCGRTH	MCCRATH BEACH PEAKER	48.56 calso_peaker1	CSO	physical	gas_ct
MNDOTA_1_SOLAR1	NORTH STAR SOLAR 1	60 calso_solar	CSO	physical	utility_pv
MNDOTA_1_SOLAR2	CITIZEN SOLAR B	5 calso_solar	CSO	physical	utility_pv
MNDOKERSTORAGE	NAN	10 calso_li_battery	CSO	physical	hr_batteries
MOJAVE_1_SPHON	MOJAVE SIPHON POWER PLANT	14.36 calso_hydro	CSO	physical	hydro
MOJAVW_2_SOLAR	MOJAVE WEST	20 calso_solar	CSO	physical	utility_pv
MONLTH_6_BATTRY	TEHACHAPI STORAGE PROJECT	7.99 calso_li_battery	CSO	physical	hr_batteries
MONLTH_2_MONW04	NAN	6.14322321 calso_wind	CSO	physical	in_state_wind_south
MONLTS_2_MONW05	NAN	4.04 calso_wind	CSO	physical	in_state_wind_south
MONLTS_2_MONW06	NAN	5.25 calso_wind	CSO	physical	in_state_wind_south
MONLTS_2_MONW07	NAN	6.156156311 calso_wind	CSO	physical	in_state_wind_south
MONTH17_UNITS	MONTICELLO HYDRO AGGREGATE	12.5 calso_small_hydro	CSO	physical	small_hydro
MOORPK_2_ACOBT1	ACORN 1 BESS	1.95 calso_li_battery	CSO	physical	hr_batteries
MOORPK_2_CALAB5	CALABAS GAS-TO-ENERGY FACILITY	6.96 calso_biomass	CSO	physical	biomass_wood
MOORPK_6_OF	MOORPARK Q25	0.8 calso_small_hydro	CSO	physical	small_hydro
MORWID_6_OF	MORWIND	38.16 calso_wind	CSO	physical	in_state_wind_south
MOSSLD_1_OF	SMALL OF AGGREGATION - SANTA CRUZ	1 calso_chp	CSO	physical	cogen
MOSSLD_2_P5P1	MOSS LANDING POWER BLOCK 1	510 calso_cctg1	CSO	physical	gas_ct
MOSSLD_2_P5P2	MOSS LANDING POWER BLOCK 2	510 calso_cctg1	CSO	physical	gas_ct
MRCINT_2_PL1X3	DESERT STAR ENERGY CENTER	494.58 calso_cctg1	CSO	physical	gas_ct
MIRGT_6_ME2	MIRAMAR ENERGY FACILITY II	44 calso_peaker1	CSO	physical	gas_ct
MIRGT_6_MMAREF	MIRAMAR ENERGY FACILITY	45 calso_peaker1	CSO	physical	gas_ct
MIRGT_6_TGBT1	TOP GUN ENERGY STORAGE	30 calso_li_battery	CSO	physical	hr_batteries
MIRSG_6_SOLAR1	MORELOS SOLAR	15 calso_solar	CSO	physical	utility_pv
MSHGT5_6_MMARLF	MIRAMAR LANDFILL	5 calso_biomass	CSO	physical	biomass_wood
MSOLAR_2_MS4BT1	MESQUITE SOLAR 4 BESS	10 calso_li_battery	CSO	physical	hr_batteries
MSOLAR_2_MS4SR4	MESQUITE SOLAR 4	52.5 calso_solar	CSO	physical	utility_pv
MSOLAR_2_SOLAR1	MESQUITE SOLAR 1	165 calso_solar	CSO	physical	utility_pv
MSOLAR_2_SOLAR2	MESQUITE SOLAR 2	100.81 calso_solar	CSO	physical	utility_pv
MSOLAR_2_SOLAR3	MESQUITE SOLAR 3, LLC	152 calso_solar	CSO	physical	utility_pv
MSQUIT_5_SRDYN	MSQUIT_5_SRDYN	625 sw_cctg	HP	specifiedimport	gas_ct
MSDOW_2_OF	SMALL OF AGGREGATION - SAN DIEGO	2 calso_small_hydro	CSO	physical	small_hydro
MSTANG_2_MTGBT1	MUSTANG 1 BESS	75 calso_li_battery	CSO	physical	hr_batteries
MSTANG_2_SOLAR3	MUSTANG	30 calso_solar	CSO	physical	utility_pv
MSTANG_2_SOLAR4	MUSTANG 3	40 calso_solar	CSO	physical	utility_pv
MTHSE_6_3B380_1	MUSTANG 4	30 calso_solar	CSO	physical	utility_pv
MTNPOS_1_UNIT	NAN	20 banc_solar	BANC	physical	utility_pv
MTWIND_1_MPPW01	MT-POSD COGENERATION CO.	46.64 calso_biomass	CSO	physical	cogen
MTWIND_1_UNIT 1	MOUNTAIN VIEW POWER PROJECT I / REPOH	66.6 calso_wind	CSO	physical	in_state_wind_south
MTWIND_1_UNIT 2	MOUNTAIN VIEW POWER PROJECT I	44.4 calso_wind	CSO	physical	in_state_wind_south
MTWIND_1_UNIT 3	MOUNTAIN VIEW POWER PROJECT II	22.2 calso_wind	CSO	physical	in_state_wind_south
MTWIND_1_UNIT 4	MOUNTAIN VIEW POWER PROJECT III	22.4 calso_wind	CSO	physical	in_state_wind_south
MURRAY_6_UNIT	GROSSMONT HOSPITAL	4.12 calso_chp	CSO	physical	cogen
NAPA_RECYCLING_BIOMASS_PLANT	NAN	1 calso_biomass	CSO	physical	biomass_wood
NAROW1_2_UNIT	NARROWS PH 1 UNIT	12 calso_small_hydro	CSO	physical	small_hydro
NAROW2_2_UNIT	NARROWS POWERHOUSE UNIT 2	55 calso_hydro	CSO	physical	hydro
NAVILV_2_UNITS	CSO POWER DEVELOPER (NAVILV) AGGRE	90 calso_geothermal	CSO	physical	geothermal
NCPA_7_GP1UN1	NCPA GEO PLANT 1 UNIT 1	38.85 calso_geothermal	CSO	physical	geothermal
NCPA_7_GP1UN2	NCPA GEO PLANT 1 UNIT 2	50 calso_geothermal	CSO	physical	geothermal
NCPA_7_GP2UN3	NCPA GEO PLANT 2 UNIT 3	42.42 calso_geothermal	CSO	physical	geothermal
NCPA_7_GP2UN4	NCPA GEO PLANT 2 UNIT 4	52.73 calso_geothermal	CSO	physical	geothermal
NEENACH_SOLAR	NAN	3 ldwep_solar	LADWP	physical	utility_pv
NEENCH_6_SOLAR	ALPINE SOLAR	66 calso_solar	CSO	physical	utility_pv
NEWARK_1_OF	NEWARK 1 OF	0.1 calso_chp	CSO	physical	cogen
NGILAA_5_SDDGYN	NGILAA_5_SDDGYN	55 sw_ct	ZPS	specifiedimport	gas_ct
NHOGAN_6_UNITS	NEW HOGAN PH AGGREGATE	4 calso_hydro	CSO	physical	hydro
NILAND_1	NAN	50 lid_peaker	IID	physical	gas_ct
NILAND_2	NAN	50 lid_peaker	IID	physical	gas_ct
NIMTG_6_NICOGN	NORTH ISLAND COGEN	4.05 calso_chp	CSO	physical	cogen
NIMTG_6_NIOF	NAN	42.7 calso_chp	CSO	physical	cogen
NOAKS_2_PESBT1	PLACERITA BESS	80 calso_li_battery	CSO	physical	hr_batteries
NORCNC_1_NCWB1	NORTH CENTRAL VALLEY	112 calso_li_battery	CSO	physical	hr_batteries
NORCNC_2_NOSB2	NORTHERN ORCHARD SOLAR	150 calso_li_battery	CSO	physical	hr_batteries
NORTH_BRAWLEY_01	NAN	16 lid_geothermal	IID	physical	geothermal
NORTH_BRAWLEY_02	NAN	16 lid_geothermal	IID	physical	geothermal
NORTH_BRAWLEY_03	NAN	16 lid_geothermal	IID	physical	geothermal
NORTH_BRAWLEY_04	NAN	16 lid_geothermal	IID	physical	geothermal
NORTH_BRAWLEY_05	NAN	16 lid_geothermal	IID	physical	geothermal
NORTH_BRAWLEY_06	NAN	16 lid_geothermal	IID	physical	geothermal
NORTH_FORK_COMMUNITY_POWER	NAN	2 calso_biomass	CSO	physical	biomass_wood
NOVATO_6_LNDPL	REDWOOD RENEWABLE ENERGY	3.9 calso_biogas	CSO	physical	biogas
NWCASTL_7_UNIT 1	NEWCASTLE HYDRO	12 calso_hydro	CSO	physical	hydro
NZWIND_2_WDSTR5	WINDSTREAM 6111	6.35 calso_wind	CSO	physical	in_state_wind_south
NZWIND_6_CAWIND	WIND RESOURCE 1	9 calso_wind	CSO	physical	in_state_wind_south
NZWIND_6_WDSTR	WINDSTREAM 39	3.35 calso_wind	CSO	physical	in_state_wind_south
NZWIND_6_WDSTR2	WINDSTREAM 6040	4.07 calso_wind	CSO	physical	in_state_wind_south
NZWIND_6_WDSTR3	WINDSTREAM 6041	3.86 calso_wind	CSO	physical	in_state_wind_south
NZWIND_6_WDSTR4	WINDSTREAM 6042	6.77 calso_wind	CSO	physical	in_state_wind_south
OAK_C_1_EBMUD	MWWTP PGS 1 - ENGINES	6.9 calso_biogas	CSO	physical	biogas
OAK_C_7_UNIT 1	OAKLAND STATION C GT UNIT 1	55 calso_peaker2	CSO	physical	gas_ct
OAK_C_7_UNIT 3	OAKLAND STATION C GT UNIT 3	55 calso_peaker2	CSO	physical	gas_ct
OAK_C_7_UNIT 2	OAKLAND STATION C GT UNIT 2	55 calso_peaker2	CSO	physical	gas_ct
OAK_L_1_GTG1	MWWTP PGS 2 - TURBINE	4.6 calso_biomass	CSO	physical	biomass_wood
OAKWD_6_OF	OAK CREEK	27.8 calso_wind	CSO	physical	in_state_wind_south
OAKWV_6_ZEPHWD	ZEPHYR PARK	3.5 calso_wind	CSO	physical	in_state_wind_south
OASIS_6_AR4SR1	ARRACHE 4006 I	1 calso_solar	CSO	physical	utility_pv
OASIS_6_AR4SR2	ARRACHE 4006 II	1 calso_solar	CSO	physical	utility_pv
OASIS_6_AR4SR3	ARRACHE 4013	1.5 calso_solar	CSO	physical	utility_pv
OASIS_6_AR8SR1	ARRACHE 8083 I	1.5 calso_solar	CSO	physical	utility_pv
OASIS_6_AR8SR2	ARRACHE 8083 II	1.5 calso_solar	CSO	physical	utility_pv
OASIS_6_AR8SR3	ARRACHE 8083 III	1 calso_solar	CSO	physical	utility_pv
OASIS_6_CREST	NAN	3 calso_solar	CSO	physical	utility_pv
OASIS_6_GDSR4	GREEN BEANWORKS D	3 calso_solar	CSO	physical	utility_pv
OASIS_6_LPRS1	LANCASTER PSOMAS PV	3 calso_solar	CSO	physical	utility_pv
OASIS_6_MA4SR1	MA 4035	1.5 calso_solar	CSO	physical	utility_pv
OASIS_6_SOLAR1	MORGAN LANCASTER I	1.5 calso_solar	CSO	physical	utility_pv
OASIS_6_SOLAR2	OASIS SOLAR	20 calso_solar	CSO	physical	utility_pv
OASIS_6_SOLAR3	SOCCER CENTER	3 calso_solar	CSO	physical	utility_pv
OASIS_6_VINSR1	VINAM	1.5 calso_solar	CSO	physical	utility_pv
OBERON_5_O18BX2	OBERON 1 BESS	125 calso_li_battery	CSO	physical	hr_batteries
OBERON_5_O15SR3	OBERON 1B SOLAR	100 calso_solar	CSO	physical	utility_pv
OBERON_5_O15SX2	OBERON 1A SOLAR	150 calso_solar	CSO	physical	utility_pv
OBERON_5_O28BX2	OBERON 2 BESS	125 calso_li_battery	CSO	physical	hr_batteries
OBERON_5_O25SR4	OBERON 2A SOLAR	125 calso_solar	CSO	physical	utility_pv
OBERON_5_O25SR5	OBERON 2B SOLAR	125 calso_solar	CSO	physical	utility_pv
OC_SOLAR_LAKESIDE	NAN	2 calso_solar	CSO	physical	utility_pv
OCCOTLO_6_OCW5R1_LESR	OCCOTILLO WELLS SOLAR AND BESS	50 lid_li_battery	IID	specifiedimport	hr_batteries
OCCOTLO_6_OCW5R1_SUN	OCCOTILLO WELLS SOLAR AND BESS	50 lid_solar	IID	specifiedimport	in_state_wind_south
OCCOTLO_5_WIND	OCCOTILLO WIND ENERGY FACILITY	265 calso_wind	CSO	physical	gas_ct
OGROVE_6_PL1X2	ORANGE GROVE ENERGY CENTER	96 calso_peaker2	CSO	physical	gas_ct
OLFLD_7_OFUNTS	NACIMIENTO HYDROELECTRIC PLANT	3.8 calso_hydro	CSO	physical	hydro
OLDRIV_6_BIOGAS	BIDARTY OLD RIVER 1	2 calso_biomass	CSO	physical	biomass_wood
OLDRIV_6_CESDBM	CES DAIRY BIOGAS	1 calso_biogas	CSO	physical	biogas
OLDRIV_6_LVB0M1	LAKEVIEW DAIRY BIOGAS	1 calso_biogas	CSO	physical	biogas
OLDRV1_6_SOLAR	OLD RIVER ONE	20 calso_solar	CSO	physical	utility_pv
OLINDA_2_COYCRK	MMO COYOTE CREEK HYDROELECTRIC REC	3.13 calso_hydro	CSO	physical	hydro
OLINDA_2_LNDF12	BREA POWER II	28.1 calso_biomass	CSO	physical	biomass_wood
OLINDA_2_OF	OLINDA Q25	0.4 calso_small_hydro	CSO	physical	small_hydro
OLINDA_7_BUSDND	BLACKSAND GENERATING FACILITY	8 calso_biomass	CSO	physical	biomass_wood
OLINDA_7_LNDF1L	NAN	5.6 calso_biomass	CSO	physical	biomass_wood
OLIVE_01	NAN	44 ldwep_st	LADWP	physical	steam
OLIVE_02	NAN	55 ldwep_st	LADWP	physical	steam
OLIVER_3_SOLAR	WHITE RIVER SOLAR	20 calso_solar	CSO	physical	utility_pv
OLIVER_1_SOLAR2	WHITE RIVER WEST	19.75 calso_solar	CSO	physical	utility_pv
OLSEN_2_UNIT	OLSEN POWER PARTNERS	5.5 calso_small_hydro	CSO	physical	small_hydro
OMAR_2_UNIT 1	KERN RIVER COGENERATION CO. UNIT 1	75 calso_peaker1	CSO	physical	gas_ct
OMAR_2_UNIT 2	KERN RIVER COGENERATION CO. UNIT 2	75 calso_peaker1	CSO	physical	gas_ct
OMAR_2_UNIT 3	KERN RIVER COGENERATION CO. UNIT 3	75 calso_peaker1	CSO	physical	gas_ct
OMAR_2_UNIT 4	KERN RIVER COGENERATION CO. UNIT 4	75 calso_peaker1	CSO	physical	cogen
ONLPP_6_UNITS	O'NEILL PUMP-GEN (AGGREGATE)	25.2 calso_pumped_hydro	CSO	physical	pumped_storage
ORIND_6_HOIRU	HIGH LINE CANAL HYDRO	0.5 calso_hydro	CSO	physical	hydro
ORIND_6_SOLAR1	ENERPAC CALIFORNIA 2	1.5 calso_solar	CSO	physical	geothermal
ORMESA_1_E	NAN	12.9 lid_geothermal	IID	physical	geothermal
ORMESA_1_H	NAN	12.9 lid_geothermal	IID	physical	geothermal
ORMESA_1_I	NAN	33.5 lid_geothermal	IID	physical	geothermal
ORMESA_II_OEC21	NAN	15 lid_geothermal	IID	physical	geothermal
ORMESA_II_OEC22	NAN	15 lid_geothermal	IID	physical	geothermal
ORMOND_7_UNIT 1	ORMOND BEACH GEN STA. UNIT 1	741.21 calso_st	CSO	physical	steam
ORMOND_7_UNIT 2	ORMOND BEACH GEN STA. UNIT 2	750 calso_st	CSO	physical	steam
ORIN33_LLC	NAN	20 lid_solar	IID	physical	utility_pv
OROLOGM_3_SOLAR1	ORO LOMA SOLAR 1	10 calso_solar	CSO	physical	utility_pv
OROLOGM_3_SOLAR2	ORO LOMA SOLAR 2	10 calso_solar	CSO	physical	utility_pv
OROVIL_6_UNIT	OROVILLE COGENERATION, LP	7.5 calso_chp	CSO	physical	cogen
ORTGA_6_ME15L1	MERCED 1	3 calso_solar	CSO	physical	utility_pv
OSO_6_NSPIN	OSO_6_NSPIN	70 calso_pumped_hydro	CSO	physical	pumped_storage
OTAY_6_EC0BT1	ENERSMART CHULA VISTA 1	3 calso_li_battery	CSO	physical	hr_batteries
OTAY_6_EC0BT2	CHULA VISTA 2	3 calso_li_battery	CSO	physical	hr_batteries
OTAY_6_LNDF15	NAN	1.5 calso_biogas	CSO	physical	biogas
OTAY_6_LNDF16	NAN	1.5 calso_biogas	CSO	physical	biogas
OTAY_6_PL1X2	CHULA VISTA ENERGY CENTER,, LLC	39.57 calso_peaker2	CSO	physical	gas_ct
OTAY_6_UNTR1	NAN	3 calso_biogas	CSO	physical	biogas
OTMESA_2_PL1X3	OTAY MESA ENERGY CENTER	603.88 calso_cctg1	CSO	physical	gas_ct

OXBOW_6_DRUM	OXBOW HYDRO	5.8 caiso_hydro	CISO	physical	hydro
OXMTH_6_LNDFIL	OX MOUNTAIN LANDFILL GENERATING PLA	10.62 caiso_biomass	CISO	physical	biomass_wood
PACULUM_6_UNIT	HUMBOLDT REDWOOD	28.8 caiso_biomass	CISO	physical	biomass_wood
PADUA_2_ONTARIO	ONTARIO/SIERRA HYDRO PSP	1.92 caiso_small_hydro	CISO	physical	small_hydro
PADUA_2_SOLAR1	KONA SOLAR - RANCHO DC#1	1.75 caiso_solar	CISO	physical	utility_pv
PADUA_6_MWSDSM	SAN DIMAS HYDROELECTRIC RECOVERY PL	9.9 caiso_hydro	CISO	physical	hydro
PADUA_6_OF	PADUA OES	1.82 caiso_small_hydro	CISO	physical	small_hydro
PADUA_7_50IMAS	SAN DIMAS WASH HYDRO	1.05 caiso_small_hydro	CISO	physical	small_hydro
PAGES_6_SOLAR	PAIGE SOLAR	20 caiso_solar	CISO	physical	utility_pv
PALA_6_PGCBT1	PALA GOMEZ CREEK BESS	10 caiso_li_battery	CISO	physical	hr_batteries
PALAUT_7_COBUG	COOPERATIVELY OWNED BACK-UP GENERA	4.5 caiso_peaker2	CISO	physical	gas_ct
PALO_VERDE_3_LADWP	NAN	407 ldwp_nuclear	LADWP	physical	nuclear
PALOMAR_2_PLIX3	PALOMAR ENERGY CENTER	588.21 caiso_cctg1	CISO	physical	gas_cc
PAUSEL_6_PLISRT1	PAULSELL SOLAR ENERGY CENTER BESS	15 caiso_li_battery	CISO	physical	hr_batteries
PAUSEL_6_PLSSR1	PAULSELL SOLAR ENERGY CENTER PV	20 caiso_solar	CISO	physical	utility_pv
PANDOL_6_UNIT	NAN	49 caiso_biomass	CISO	physical	biomass_wood
PANERO_2_MWPPWD1	MESA WIND PROJECT	30 caiso_wind	ID	specifiedimport	out_of_state_wind_WYID
PANSEA_1_PANARO	NAN	30 caiso_wind	CISO	physical	in_state_wind_south
PARDEB_6_UNITS	PARDEE POWER HOUSE	30 caiso_hydro	CISO	physical	hydro
PARDSE_6_PESBT1	PARADISE ENERGY STORAGE	9.75 caiso_li_battery	CISO	physical	hr_batteries
PARQUEEDUCO	NAN	10 caiso_wind	CISO	physical	in_state_wind_south
PELOSA_2_SOLAR	PEARLBLOSSOM	9.5 caiso_solar	CISO	physical	utility_pv
PEABOY_2_LNDFIL	G2 ENERGY HAY ROAD POWER PLANT	1.6 caiso_biomass	CISO	physical	biomass_wood
PEABOY_2_LNDFL1	POTERO HILLS ENERGY PRODUCERS	8 caiso_biomass	CISO	physical	biomass_wood
PEARLB_2_KSPN	PEARLB_2_KSPN	114 caiso_pumped_hydro	CISO	physical	pumped_storage
PEASE_1_TREUT1	TERRA RUENA ENERGY STORAGE	6 caiso_li_battery	CISO	physical	hr_batteries
PEORIA_1_SOLAR	SONORA 1	1.5 caiso_solar	CISO	physical	utility_pv
PGE_BAY_BIP_DO	NAN	90 caiso_loadmod	CISO	physical	demand_response
PGE_BAY_CBP_DA_NONRES	NAN	0.1 caiso_loadmod	CISO	physical	demand_response
PGE_BAY_CBP_DA_RES	NAN	0.1 caiso_loadmod	CISO	physical	demand_response
PGE_BAY_PDP_NON_RES	NAN	4 caiso_loadmod	CISO	physical	demand_response
PGE_BAY_SMARTAC_NON_RES	NAN	0.1 caiso_loadmod	CISO	physical	demand_response
PGE_BAY_SMARTAC_RES	NAN	0.1 caiso_loadmod	CISO	physical	demand_response
PGE_BAY_SMARTAC_RES	NAN	0.1 caiso_loadmod	CISO	physical	demand_response
PGE_VAL_BIP_DO	NAN	267 caiso_loadmod	CISO	physical	demand_response
PGE_VAL_CBP_DA	NAN	0.1 caiso_loadmod	CISO	physical	demand_response
PGE_VAL_CBP_DA_RES	NAN	0.1 caiso_loadmod	CISO	physical	demand_response
PGE_VAL_SMARTAC_NON_RES	NAN	0.1 caiso_loadmod	CISO	physical	demand_response
PGE_VAL_SMARTAC_RES	NAN	0.1 caiso_loadmod	CISO	physical	demand_response
PGE_VAL_SMARTAC_RES	NAN	2 caiso_loadmod	CISO	physical	demand_response
PHOENIX_1_UNIT	PHOENIX PH	2 caiso_small_hydro	CISO	physical	small_hydro
PINE_TREE_SOLAR	NAN	8.5 ldwp_solar	LADWP	physical	utility_pv
PINE_TREE_WIND	NAN	120 ldwp_wind	LADWP	physical	out_of_state_wind_WYID
PIHLFT_7_UNITS	PINE FLAT HYDRO AGGREGATE	198.51 caiso_hydro	CISO	physical	hydro
PIOPIC_2_CTG1	PIO PICO UNIT 1	111.3 caiso_peaker1	CISO	physical	gas_ct
PIOPIC_2_CTG2	PIO PICO UNIT 2	112.7 caiso_peaker1	CISO	physical	gas_ct
PIOPIC_2_CTG3	PIO PICO UNIT 3	112 caiso_peaker1	CISO	physical	gas_ct
PT1_6_FRIVA	FALL RIVER MILLS PROJECT A	1.5 caiso_solar	CISO	physical	utility_pv
PT1_7_UNIT 1	PT PH 1 UNIT 1	32 caiso_hydro	CISO	physical	hydro
PT1_7_UNIT 2	PT PH 1 UNIT 2	32 caiso_hydro	CISO	physical	hydro
PT3_7_PLIX3	PT PH 3 UNITS 1, 2 & 3 AGGREGATE	70.6 caiso_hydro	CISO	physical	hydro
PT5_7_PLIX2	PT PH 4 UNITS 1 & 2 AGGREGATE	95 caiso_hydro	CISO	physical	hydro
PT5_7_PLIX2	PT PH 5 UNITS 1 & 2 AGGREGATE	82 caiso_hydro	CISO	physical	hydro
PT5_7_PLIX4	PT PH 5 UNITS 3 & 4 AGGREGATE	82 caiso_hydro	CISO	physical	hydro
PT5_7_OFUNTS	GRASSHOPPER FLAT HYDRO	1.1 caiso_hydro	CISO	physical	hydro
PT6_7_UNIT 1	PT PH 6 UNIT 1	39 caiso_hydro	CISO	physical	hydro
PT6_7_UNIT 2	PT PH 6 UNIT 2	40 caiso_hydro	CISO	physical	hydro
PT7_7_UNIT 1	PT PH 7 UNIT 1	55.7 caiso_hydro	CISO	physical	hydro
PT7_7_UNIT 2	PT PH 7 UNIT 2	54.6 caiso_hydro	CISO	physical	hydro
PLUTTE_6_GNBSR1	GREEN BEANWORKS B	3 caiso_biomass	CISO	physical	utility_pv
PLACV_1_CHILB	CHIL BAR HYDRO	8.34 caiso_small_hydro	CISO	physical	small_hydro
PLACV_1_RCKCRE	ROCK CREEK HYDRO	5 caiso_small_hydro	CISO	physical	small_hydro
PLAINV_6_BSOAR	WESTERN ANTELOPE BLUE SKY RANCH A	20 caiso_solar	CISO	physical	utility_pv
PLAINV_6_BSOAR	WESTERN ANTELOPE DRY RANCH	10 caiso_solar	CISO	physical	utility_pv
PLAINV_6_NLSR1	NORTH LANCASTER RANCH	20 caiso_solar	CISO	physical	utility_pv
PLAINV_6_SOLAR3	SIERRA SOLAR GREENWORKS, LLC	20 caiso_solar	CISO	physical	utility_pv
PLAINV_6_SOLAR4	CENTRAL ANTELOPE DRY RANCH C	20 caiso_solar	CISO	physical	utility_pv
PLASSR_6_HISR	HIGH SIERRA COGENERATION AGGREGATE	6 caiso_chp	CISO	physical	cogen
PLSNTG_7_LNCLND	LINCOLN LANDFILL POWER PLANT	4.98 caiso_biomass	CISO	physical	biomass_wood
PMDLET_6_SOLAR1	SEPV PALMDALE EAST, LLC	10 caiso_solar	CISO	physical	utility_pv
PMPPIC_1_RBZSLR	PIO BRAVO SOLAR 2	20 caiso_solar	CISO	physical	utility_pv
PMPPIC_1_SOLAR1	PUMPIACK SOLAR 1	20 caiso_solar	CISO	physical	utility_pv
PMPPIC_1_SOLAR2	PIO BRAVO SOLAR 1	20 caiso_solar	CISO	physical	utility_pv
PMCHEG_2_PLIX4	PANOCHIE ENERGY CENTER (AGGREGATED)	41.7 caiso_peaker1	CISO	physical	gas_ct
PMCHPP_1_PLIX2	MIDWAY PEAKING AGGREGATE	119.95 caiso_peaker2	CISO	physical	gas_ct
PMCHVS_2_SOLAR	PANOCHIE VALLEY SOLAR	140 caiso_solar	CISO	physical	gas_ct
PMOCHIE_1_PLIX2	PANOCHIE PEAKER	49.97 caiso_peaker2	CISO	physical	gas_ct
PMOCHIE_1_UNITA1	CAIPEAK POWER PANOCHIE UNIT 1	52.3 caiso_peaker2	CISO	physical	gas_ct
POCATELLO_WASTE1	NAN	0.4 caiso_biomass	CISO	physical	biomass_wood
POEPH_7_UNIT 1	POE HYDRO UNIT 1	68 caiso_hydro	CISO	physical	hydro
POEPH_7_UNIT 2	POE HYDRO UNIT 2	68.5 caiso_hydro	CISO	physical	hydro
POINTLOMA1	NAN	2.29 caiso_biomass	CISO	physical	biomass_wood
POINTLOMA2	NAN	2.29 caiso_biomass	CISO	physical	biomass_wood
POLRIS_2_ASER1T1	ANTELOPE SOLAR 2 ESTRELLA BESS	28 caiso_li_battery	CISO	physical	hr_batteries
POLRIS_2_ASER1T1	ANTELOPE SOLAR 2 ESTRELLA	56 caiso_solar	CISO	physical	utility_pv
POLRIS_2_ASER1T1	ANTELOPE SOLAR 2 RACEWAY BESS	80 caiso_li_battery	CISO	physical	hr_batteries
POLRIS_2_ASR1R1	ANTELOPE SOLAR 2 RACEWAY	125 caiso_solar	CISO	physical	utility_pv
POTTER_6_UNITS	POTTER VALLEY	10.1 caiso_small_hydro	CISO	physical	small_hydro
POTTER_7_VECONO	VECONO VINEYARDS, LLC	1.25 caiso_hydro	CISO	physical	hydro
PRACITV_1_MIGBT1	MIGUEL BESS	2 caiso_biomass	CISO	physical	hr_batteries
PRIMA_PLANT1	NAN	3 caiso_biomass	CISO	physical	biomass_wood
PRIMA_PLANT2	NAN	3 caiso_biomass	CISO	physical	biomass_wood
PRIMM_2_SOLAR1	SILVER STATE SOUTH	250 caiso_solar	CISO	physical	utility_pv
PROKSR_2_PROSR1	PROXIMA SOLAR	120 caiso_solar	CISO	physical	utility_pv
PROKSR_2_P51BT1	PROXIMA SOLAR BESS 1A	40 caiso_li_battery	CISO	physical	hr_batteries
PROKSR_2_P51BT2	PROXIMA SOLAR BESS 1B	32 caiso_li_battery	CISO	physical	hr_batteries
PROKSR_2_P51SR2	PROXIMA SOLAR 1B	69.74 caiso_solar	CISO	physical	utility_pv
PROKSR_2_P52BT3	PROXIMA SOLAR BESS 2	90 caiso_li_battery	CISO	physical	hr_batteries
PSWEET_1_STORLZ	SANTA CRUZ ENERGY, LLC	1.6 caiso_biogas	CISO	physical	biogas
PSWEET_7_OFUNTS	PSWEET_7_OFUNTS	1 caiso_chp	CISO	physical	cogen
PTLOMA_6_NTCCGN	NAN	2.58 caiso_chp	CISO	physical	cogen
PTLOMA_6_NTCCP	NTC/MCRD COGENERATION	22.3 caiso_chp	CISO	physical	cogen
PUTHCR_1_PCONR1	PUTAH CREEK SOLAR FARM NORTH	3 caiso_solar	CISO	physical	utility_pv
PUTHCR_1_SOLAR1	PUTAH CREEK SOLAR FARM	1.98 caiso_solar	CISO	physical	utility_pv
PVERDE_5_SCEDYN	PVERDE_5_SCEDYN	635 caiso_nuclear	SRP	specifiedimport	nuclear
PAWEST_1_UNIT	PACIFIC WEST 1 WIND GENERATION	2.1 caiso_wind	CISO	physical	in_state_wind_south
QUARANTAINSTORAGE	NAN	10 caiso_li_battery	CISO	physical	hr_batteries
RABBITBRUSHSTORAGE	NAN	20 caiso_li_battery	CISO	physical	hr_batteries
RACEWAYSTORAGE	NAN	125 caiso_solar	CISO	physical	utility_pv
RACEWAYSTORAGE	NAN	80 caiso_li_battery	CISO	physical	hr_batteries
RANON_2_SCEDYN	RANON_2_SCEDYN	106.18 ldw_geothermal	ID	specifiedimport	geothermal
RANCHO_2_SMUDSYSDYN	SMUD REGULATION MARKET	124 caiso_specified_imports	specifiedimport		n/a
RATSKR_2_RBSR1	NORTH ROSAMOND SOLAR	150 caiso_solar	CISO	physical	utility_pv
RATSKR_2_RBSR1	RABBITBRUSH SOLAR 1	60 caiso_solar	CISO	physical	utility_pv
RATSKR_2_RBSR2	RABBITBRUSH SOLAR 2	40 caiso_solar	CISO	physical	utility_pv
RCKCRK_7_UNIT 1	ROCK CREEK HYDRO UNIT 1	57 caiso_hydro	CISO	physical	hydro
RCKCRK_7_UNIT 2	ROCK CREEK HYDRO UNIT 2	56.9 caiso_hydro	CISO	physical	hydro
RDWAY_1_CREST	NAN	6.5 caiso_solar	CISO	physical	utility_pv
RDWAY_1_SCSR1	SHEEP CREEK	3 caiso_solar	CISO	physical	utility_pv
RDWAY_1_WAZSR3	WATTS II	0.5 caiso_solar	CISO	physical	utility_pv
RDWAY_1_WASR2	WATTS I	1.5 caiso_solar	CISO	physical	utility_pv
RE_BRL_2B50L_1	NAN	61.1 ldwp_solar	LADWP	physical	utility_pv
RE_GASKELL_WEST_3	NAN	20 caiso_solar	CISO	physical	utility_pv
RE_GASKELL_WEST_4	NAN	20 caiso_solar	CISO	physical	utility_pv
RE_GASKELL_WEST_5	NAN	20 caiso_solar	CISO	physical	utility_pv
RECTOR_2_CREST	NAN	10.5 caiso_solar	CISO	physical	utility_pv
RECTOR_2_IVANPV	IVANHOE TULARE PV	3.5 caiso_solar	CISO	physical	utility_pv
RECTOR_2_KAWEAH	KAWEAH PH 2 & 3 PSP AGGREGATE	6.55 caiso_small_hydro	CISO	physical	small_hydro
RECTOR_2_KAWH 1	KAWEAH PH 1 UNIT 1	2.25 caiso_hydro	CISO	physical	hydro
RECTOR_2_OF	KAWEAH UNIT 3	20.09 caiso_small_hydro	CISO	physical	small_hydro
RECTOR_2_TFDBM1	TWO FIETS DAIRY DIGESTER	0.8 caiso_biomass	CISO	physical	biomass_wood
RECTOR_2_VISSR1	VISALIA CSG	3 caiso_solar	CISO	physical	utility_pv
RECTOR_7_TULARE	MM TULARE	1.5 caiso_biomass	CISO	physical	biomass_wood
REDBLF_6_UNIT	RED BLUFF PEAKER PLANT	44 caiso_reciprocating_engine	CISO	physical	ice
REDDING_POWER_1	NAN	17.03 banc_peaker	BANC	physical	gas_ct
REDDING_POWER_2	NAN	25.03 banc_peaker	BANC	physical	gas_ct
REDDING_POWER_3	NAN	25.03 banc_peaker	BANC	physical	gas_ct
REDDING_POWER_CC	NAN	121 banc_cctg	BANC	physical	gas_cc
REDMAN_2_SOLAR	LANCASTER EAST AVENUE F	3.75 caiso_solar	CISO	physical	utility_pv
REDMAN_6_AVSSR1	ANTELOPE VALLEY SOLAR	3 caiso_solar	CISO	physical	utility_pv
REDONDO_7_UNIT 5	REDONDO GEN STA. UNIT 5	178.87 caiso_st	CISO	physical	steam
REDONDO_7_UNIT 6	REDONDO GEN STA. UNIT 6	174.29 caiso_st	CISO	physical	steam
REDONDO_7_UNIT 8	REDONDO GEN STA. UNIT 8	480 caiso_st	CISO	physical	steam
REDLY_6_SOLAR	TERZIAN	1.23 caiso_solar	CISO	physical	utility_pv
RENEW_1_OF	RENEWING RE-POWERING PROJECT	10 caiso_wind	CISO	physical	in_state_wind_south
REXFORDSOLAR	NAN	300 caiso_solar	CISO	physical	utility_pv
REXFORDSTORAGE	NAN	180 caiso_li_battery	CISO	physical	hr_batteries
RHONDO_6_PUENTE	NAN	4 caiso_biogas	CISO	physical	biogas
RICHMAN_1_CHVSR2	CHEVRON B.5	8.5 caiso_solar	CISO	physical	utility_pv
RICHMAN_1_SOLAR	CHEVRON 2	2 caiso_solar	CISO	physical	utility_pv
RICHMAN_7_BAYENV	BAY ENVIRONMENTAL (MOVE POWER)	2.5 caiso_biomass	CISO	physical	biomass_wood
RIDGRV_6_UNIT1	PIO BRAVO HYDRO	14 caiso_hydro	CISO	physical	hydro
RIDSDO_1_OF	SMALL GE AGGREGATION - GRASS VALLEY	1.11 caiso_small_hydro	CISO	physical	small_hydro
RIPON_1	NAN	50 banc_peaker	BANC	physical	gas_ct

RIPON_2	NAN	50 banc_peaker	BANC	physical	gas_ct
RNDMTN_2_SLPYH1	SILVER SPRINGS	0.6 caiso_hydro	CSO	physical	hydro
RNDGB_1_HZKSH1	HAZEL A	2.89 caiso_solar	CSO	physical	utility_pv
ROCKWOOD_1	NAN	25 iid_peaker	IID	physical	gas_ct
ROCKWOOD_2	NAN	25 iid_peaker	IID	physical	gas_ct
ROLIN_6_UNIT	ROLLINS HYDRO	13.5 caiso_hydro	CSO	physical	hydro
ROMOLA_5_MPB8T1	MENIFEE POWER BANK	230 caiso_li_battery	CSO	physical	hr_batteries
ROMOLA_5_MPB8T2	MENIFEE POWER BANK 2	230 caiso_li_battery	CSO	physical	hr_batteries
ROMOLA_5_MPB8T3	MENIFEE POWER BANK 3	50 caiso_li_battery	CSO	physical	hr_batteries
ROMOLA_5_MPB8T4	MENIFEE POWER BANK 4	110 caiso_li_battery	CSO	physical	hr_batteries
ROSEVILLE_1	NAN	25.6 banc_peaker	BANC	physical	gas_ct
ROSEVILLE_2	NAN	25.6 banc_peaker	BANC	physical	gas_ct
ROSMADW_2_WIND1	PACIFIC WIND - PHASE 1	140 caiso_wind	CSO	physical	in_state_wind_south
ROSMAD_5_SOLAR	LANCASTER B	3 caiso_solar	CSO	physical	utility_pv
RSMSLR_6_SOLAR1	ROSAMOND ONE	20 caiso_solar	CSO	physical	utility_pv
RSMSLR_6_SOLAR2	ROSAMOND TWO	20 caiso_solar	CSO	physical	utility_pv
RTEDDY_2_RWSB71	ROSAMOND WEST SOLAR CENTRAL BESS A:	30 caiso_li_battery	CSO	physical	hr_batteries
RTEDDY_2_RWSB72	ROSAMOND WEST SOLAR CENTRAL BESS A:	30 caiso_li_battery	CSO	physical	hr_batteries
RTEDDY_2_RWSB73	ROSAMOND WEST SOLAR CENTRAL BESS A:	45 caiso_li_battery	CSO	physical	hr_batteries
RTEDDY_2_RWSB74	ROSAMOND WEST SOLAR CENTRAL BESS B	30 caiso_li_battery	CSO	physical	hr_batteries
RTEDDY_2_RWSB75	ROSAMOND WEST SOLAR CENTRAL BESS C	12 caiso_li_battery	CSO	physical	hr_batteries
RTEDDY_2_SC5B3	ROSAMOND WEST SOLAR CLEAN	40 caiso_solar	CSO	physical	utility_pv
RTEDDY_2_SEB5B3	ROSAMOND WEST SOLAR EAST BAY 3	56 caiso_solar	CSO	physical	utility_pv
RTEDDY_2_SEB5B4	ROSAMOND WEST SOLAR EAST BAY 4	56 caiso_solar	CSO	physical	utility_pv
RTEDDY_2_SOLAR1	ROSAMOND WEST SOLAR 1	54 caiso_solar	CSO	physical	utility_pv
RTEDDY_2_SOLAR2	ROSAMOND WEST SOLAR 2	54 caiso_solar	CSO	physical	utility_pv
RTEDDY_2_SPASB4	ROSAMOND WEST SOLAR PALO ALTO	26 caiso_solar	CSO	physical	utility_pv
RTEDDY_2_SRXSB4	ROSAMOND WEST SOLAR ROSE X	13.6 caiso_solar	CSO	physical	utility_pv
RTREE_2_WIND1	RISING TREE 1	79.2 caiso_wind	CSO	physical	in_state_wind_south
RTREE_2_WIND2	RISING TREE 2	19.8 caiso_wind	CSO	physical	in_state_wind_south
RTREE_2_WIND3	RISING TREE 3	99 caiso_wind	CSO	physical	in_state_wind_south
RUSCTY_2_UNITS	RUSSELL CITY ENERGY CENTER	615.18 caiso_cgt2	CSO	physical	gas_cc
RUSSEL_2_SOLANO1	SOLANO RENEWABLES 1	229.98 caiso_wind	CSO	physical	in_state_wind_north
RIVERVIEW_1_UNITA1	RIVERVIEW ENERGY CENTER (GP ANTIOCH)	48.7 caiso_peaker2	CSO	physical	gas_ct
RVSIDE_2_RERCJ3	RIVERSIDE ENERGY RES. CTR UNIT 3	49 caiso_peaker1	CSO	physical	gas_ct
RVSIDE_2_RERCJ4	RIVERSIDE ENERGY RES. CTR UNIT 4	49 caiso_peaker1	CSO	physical	gas_ct
RVSIDE_6_RERCJ1	RIVERSIDE ENERGY RES. CTR UNIT 1	48.5 caiso_peaker1	CSO	physical	gas_ct
RVSIDE_6_RERCJ2	RIVERSIDE ENERGY RES. CTR UNIT 2	48.5 caiso_peaker2	CSO	physical	gas_ct
RVSIDE_6_SOLAR1	TEQUESQUITE LANDFILL SOLAR PROIECT	7.5 caiso_solar	CSO	physical	utility_pv
RVSIDE_6_SPRING	SPRINGS GENERATION PROJECT AGGREGAT	36 caiso_peaker1	CSO	physical	gas_ct
S_ATA_6_SOLAR1	SUN HARVEST SOLAR	1.5 caiso_solar	CSO	physical	utility_pv
SALURV_2_UNIT	SALINAS RIVER COGENERATION	39 caiso_chp	CSO	physical	cogen
SALTON_SEA_4	NAN	42 iid_geothermal	IID	physical	geothermal
SALTON_SEA_5	NAN	50 iid_geothermal	IID	physical	geothermal
SALTON_SEA_UNIT_2_G1	NAN	10 iid_geothermal	IID	physical	geothermal
SALTON_SEA_UNIT_2_G2	NAN	5 iid_geothermal	IID	physical	geothermal
SALTON_SEA_UNIT_2_G3	NAN	5 iid_geothermal	IID	physical	geothermal
SALTP_7_UNITS	SALT SPRINGS HYDRO AGGREGATE	46 caiso_hydro	CSO	physical	hydro
SAMPB6_6_KELCO1	KELCO QUALIFYING FACILITY	25 caiso_chp	CSO	physical	cogen
SANBRN_2_ESSB2	EDSAN 1 EDWARDS 0	166 caiso_solar	CSO	physical	utility_pv
SANBRN_2_ES1B73	EDSAN 1 EDWARDS 1	50.43 caiso_solar	CSO	physical	utility_pv
SANBRN_2_ES2B83	EDSAN 2 SANBORNS 3	42 caiso_solar	CSO	physical	utility_pv
SANBRN_2_ES4B71	EDSAN 1A	100 caiso_li_battery	CSO	physical	hr_batteries
SANBRN_2_ES8B71	EDSAN 1B	100 caiso_li_battery	CSO	physical	hr_batteries
SANBRN_2_S52B73	SANBORNS SOLAR 2 SBESS 3	169 caiso_li_battery	CSO	physical	hr_batteries
SANBRN_2_S52B74	SANBORNS SOLAR 2 SBESS 4	47 caiso_li_battery	CSO	physical	hr_batteries
SANBRN_2_S52SB4	EDSAN 3 SANBORNS 4	36 caiso_solar	CSO	physical	utility_pv
SANDHILLCWINO	NAN	80 caiso_wind	CSO	physical	in_state_wind_south
SANDLT_2_SUNTS	MOJAVE SOLAR	275 caiso_solar	CSO	physical	utility_pv
SANDRN_2_S51SR1	SANDRIN SOL 1	100 caiso_solar	CSO	physical	utility_pv
SANDRN_2_S52SR2	SANDRIN SOL2	200 caiso_solar	CSO	physical	utility_pv
SANTR_6_UNITS	LACSD CARSON WATER POLLUTION AGGRE	8 caiso_biogas	CSO	physical	biogas
SANLOB_1_LNDFIL	COLD CANYON	1.5 caiso_biomas	CSO	physical	biomas_wood
SANLOS_1_OSPB1	OLD SANTA FE ROAD	0.85 caiso_biomas	CSO	physical	biomas_wood
SANTA_BARBARA_COUNTY_PUBLIC_WORKS_DEPARTMENT	NAN	2.274 caiso_biogas	CSO	physical	biogas
SANTFG_7_UNITS	GEYSERS CAUSTOGA AGGREGATE	72 caiso_geothermal	CSO	physical	geothermal
SANTGO_2_LNDFL1	BOVERMAN POWER	19.6 caiso_biogas	CSO	physical	biogas
SANTGO_2_MAMB71	MILKCAN AVENUE BESS	2 caiso_li_battery	CSO	physical	hr_batteries
SANWD_1_OF	SAN GORGONIO FARMS WIND FARM	31 caiso_wind	CSO	physical	in_state_wind_south
SAUGUS_2_SPESB71	SANTA PAULA ENERGY STORAGE	30 caiso_li_battery	CSO	physical	hr_batteries
SAUGUS_2_TOLAND	NAN	1.57 caiso_biogas	CSO	physical	biogas
SAUGUS_6_CREST	EAST PORTAL HYDRO	1 caiso_small_hydro	CSO	physical	small_hydro
SAUGUS_6_MWDFH	FOOTHILL HYDROELECTRIC RECOVERY PLAN	9.1 caiso_hydro	CSO	physical	hydro
SAUGUS_6_PTCGN	NAN	20.78 caiso_chp	CSO	physical	cogen
SAUGUS_6_OF	SAUGUS OFS	2.18 caiso_small_hydro	CSO	physical	small_hydro
SAUGUS_2_CHICGN	CHICUITA CANYON LANDFILL FAC	8 caiso_biomas	CSO	physical	biomas_wood
SAUGUS_7_LOPEZ	MM LOPEZ ENERGY	6.1 caiso_biomas	CSO	physical	biomas_wood
SBERDO_2_PSP3	MOUNTAINVIEW GEN STA. UNIT 3	555 caiso_cgt1	CSO	physical	gas_cc
SBERDO_2_PSP4	MOUNTAINVIEW GEN STA. UNIT 4	555 caiso_cgt1	CSO	physical	gas_cc
SBERDO_2_OF	NAN	10.6 caiso_chp	CSO	physical	cogen
SBERDO_2_REDLDN	REDLANDS RT SOLAR	2 caiso_solar	CSO	physical	utility_pv
SBERDO_2_RTS005	SPVP005 REDLANDS RT SOLAR	2.5 caiso_solar	CSO	physical	utility_pv
SBERDO_2_RTS007	SPVP007 REDLANDS RT SOLAR	2.5 caiso_solar	CSO	physical	utility_pv
SBERDO_2_RTS011	SPVP011	3.5 caiso_solar	CSO	physical	utility_pv
SBERDO_2_RTS013	SPVP013	3.5 caiso_solar	CSO	physical	utility_pv
SBERDO_2_RTS016	SPVP016 REDLANDS RT SOLAR	1.5 caiso_solar	CSO	physical	utility_pv
SBERDO_2_RTS04B	SPVP04B	5 caiso_solar	CSO	physical	utility_pv
SBERDO_2_SNTANA	SANTA ANA PSP	6.95 caiso_small_hydro	CSO	physical	small_hydro
SBERDO_6_MILLCK	MILL CREEK PSP	3.93 caiso_small_hydro	CSO	physical	small_hydro
SCACOGENTZ	NAN	65.6 banc_cgt2	BANC	physical	gas_cc
SCARLT_2_SSAB71	NAN	49 banc_peaker	BANC	physical	gas_ct
SCARLT_2_SSASR1	SCARLET SOLAR CA 1A	10 caiso_solar	CSO	physical	hr_batteries
SCARLT_2_SSASR1	SCARLET SOLAR CA 1A PV	100 caiso_solar	CSO	physical	utility_pv
SCARLT_2_S5B8B71	SCARLET SOLAR CA 1B	30 caiso_solar	CSO	physical	hr_batteries
SCARLT_2_S5B8B71	SCARLET SOLAR CA 1B PV	100 caiso_solar	CSO	physical	utility_pv
SCATTERGOOD_1	NAN	174 ldwp_st	LADWP	physical	steam
SCATTERGOOD_2	NAN	177 ldwp_st	LADWP	physical	steam
SCATTERGOOD_4	NAN	300 ldwp_peaker	LADWP	physical	gas_ct
SCATTERGOOD_5	NAN	100 ldwp_peaker	LADWP	physical	gas_ct
SCATTERGOOD_6	NAN	89 ldwp_peaker	LADWP	physical	gas_ct
SCATTERGOOD_7	NAN	89 ldwp_peaker	LADWP	physical	gas_ct
SCE_AP_1	NAN	13 caiso_loadmod	CSO	physical	demand_response
SCE_BP_15	NAN	212 caiso_loadmod	CSO	physical	demand_response
SCE_BP_30	NAN	606 caiso_loadmod	CSO	physical	demand_response
SCE_CBP_DA	NAN	0.1 caiso_loadmod	CSO	physical	demand_response
SCE_CBP_DO	NAN	1 caiso_loadmod	CSO	physical	demand_response
SCE_SDP_COMM	NAN	3 caiso_loadmod	CSO	physical	demand_response
SCE_SDP_RESO	NAN	1 caiso_loadmod	CSO	physical	demand_response
SCHOV_2_HOOVER	SCHOV_2_HOOVER	287.01 caiso_hydro	WALC	specifiedimport	hydro
SCHTLE_2_PLX13	TRACY COMBINED CYCLE POWER PLANT	336.04 caiso_cgt2	CSO	physical	gas_ct
SCHNDR_1_FJW75	FIVE POINTS SOLAR STATION	15 caiso_solar	CSO	physical	utility_pv
SCHNDR_1_OS2BM2	OPEN SKY DIGESTER GENSET 2	0.8 caiso_biogas	CSO	physical	biogas
SCHNDR_1_W5TSD	WESTSIDE SOLAR STATION	15 caiso_solar	CSO	physical	utility_pv
SDGE_BP	NAN	2 caiso_loadmod	CSO	physical	demand_response
SDGE_CBP_DA	NAN	0.1 caiso_loadmod	CSO	physical	demand_response
SDGE_CBP_DO	NAN	0.1 caiso_loadmod	CSO	physical	demand_response
SDGE_SUMM_SAV_RESO	NAN	0.1 caiso_loadmod	CSO	physical	demand_response
SDGE_SUMMER_SAVER_COMM	NAN	0.1 caiso_loadmod	CSO	physical	demand_response
SDGEAC_SAVER_DA_COMM	NAN	0.1 caiso_loadmod	CSO	physical	demand_response
SDGEAC_SAVER_DA_RES	NAN	0.1 caiso_loadmod	CSO	physical	demand_response
SDGEAC_SAVER_DO_COMM	NAN	0.1 caiso_loadmod	CSO	physical	demand_response
SDGEAC_SAVER_DO_RES	NAN	0.1 caiso_loadmod	CSO	physical	demand_response
SOSU_GEN	NAN	7 iid_solar	IID	physical	utility_pv
SEARLS_1_T53SR1	TRONA SOLAR III	2 caiso_solar	CSO	physical	utility_pv
SEARLS_7_ARGUIS	COGEN COGENERATION	13 caiso_chp	CSO	physical	cogen
SEAWIND_2_AMMW01	ALTA MESA WIND	27 caiso_wind	CSO	physical	in_state_wind_south
SEAWST_6_LAP05	SEA WEST ENERGY - SEAWEST	13 caiso_wind	CSO	physical	in_state_wind_south
SECOND_IMPERIAL01_12	NAN	33 iid_geothermal	IID	physical	geothermal
SEGS_1_SKE2C2	SUNBAY 2	20 caiso_solar	CSO	physical	utility_pv
SENTNL_2_CTG1	SENTINEL UNIT 1	107.68 caiso_peaker1	CSO	physical	gas_ct
SENTNL_2_CTG2	SENTINEL UNIT 2	104.19 caiso_peaker1	CSO	physical	gas_ct
SENTNL_2_CTG3	SENTINEL UNIT 3	105.69 caiso_peaker1	CSO	physical	gas_ct
SENTNL_2_CTG4	SENTINEL UNIT 4	106.55 caiso_peaker1	CSO	physical	gas_ct
SENTNL_2_CTG5	SENTINEL UNIT 5	107.52 caiso_peaker1	CSO	physical	gas_ct
SENTNL_2_CTG6	SENTINEL UNIT 6	105 caiso_peaker1	CSO	physical	gas_ct
SENTNL_2_CTG7	SENTINEL UNIT 7	106.73 caiso_peaker1	CSO	physical	gas_ct
SENTNL_2_CTG8	SENTINEL UNIT 8	106.85 caiso_peaker1	CSO	physical	gas_ct
SEPV_BOULEVARD_2	NAN	2.9 caiso_solar	CSO	physical	utility_pv
SEVILLE_2	NAN	32.5 iid_solar	IID	physical	utility_pv
SGREGY_6_SANGER	ALGONQUIN POWER SANGER 2	48.3 caiso_chp	CSO	physical	cogen
SHANDN_2_SBBM1	SAN BERNARDINO BIOGAS	2.6 caiso_biomas	CSO	physical	biomas_wood
SHEEP_CREEK_ROAD_SOLAR_GENERATION_FACILITY_PROJECT	NAN	3 caiso_solar	CSO	physical	utility_pv
SHELFR_1_UNITS	SHELL OIL REFINERY AGGREGATE	100 caiso_peaker2	CSO	physical	gas_ct
SHUTLE_6_CREST	NAN	4 caiso_solar	CSO	physical	utility_pv
SHUTLE_6_RUISR1	RUTAN 1	1.5 caiso_solar	CSO	physical	utility_pv
SHUTLE_6_RUISR2	RUTAN 2	1.5 caiso_solar	CSO	physical	utility_pv
SHUTLE_6_RUISR3	RUTAN 3	1 caiso_solar	CSO	physical	utility_pv
SIERRA_1_UNITS	HIGH SIERRA LIMITED	52.43 caiso_peaker2	CSO	physical	gas_ct
SIBERASTORAGE	NAN	10 caiso_li_battery	CSO	physical	hr_batteries
SIGHEB_6_HE25CEDYN	HEBER 2	28 iid_geothermal	IID	specifiedimport	geothermal
SIGHEB_6_MIRODYN	HEBER SOUTH	17 iid_geothermal	IID	specifiedimport	geothermal
SIPRPG_2_DS3B71	DAGGETT SOLAR 3 A BESS	61.5 caiso_li_battery	CSO	physical	hr_batteries
SIPRPG_2_DS3B72	DAGGETT SOLAR 3 B BESS	60 caiso_li_battery	CSO	physical	hr_batteries
SIPRPG_2_DS3B73	DAGGETT SOLAR 3 C BESS	12.5 caiso_li_battery	CSO	physical	hr_batteries

SISPRG_2_DS3BT4	DAGGETT SOLAR 3 E BESS	15 calso_battery	CSO	physical	hr_batteries
SISPRG_2_DS3SR1	DAGGETT SOLAR 3 A PV	123 calso_solar	CSO	physical	utility_pv
SISPRG_2_DS3SR2	DAGGETT SOLAR 3 B PV	110 calso_solar	CSO	physical	utility_pv
SISPRG_2_DS3SR3	DAGGETT SOLAR 3 CD PV	50 calso_solar	CSO	physical	utility_pv
SISPRG_2_DS3SR4	DAGGETT SOLAR 3 E PV	17 calso_solar	CSO	physical	utility_pv
SISQUC_1_SMA00A	SANTA MARIA II LFG POWER PLANT	140.2 calso_biomass	CSO	physical	biomass_wood
SKERN_6_S0LAR1	SOUTH KERN SOLAR PV PLANT	20 calso_solar	CSO	physical	utility_pv
SKERN_6_S0LAR2	SKIC SOLAR	10 calso_solar	CSO	physical	utility_pv
SLATE_2_SLA0R1	SLATE	50.5 calso_solar	CSO	physical	utility_pv
SLATE_2_SLA0R2_LESR	SLATE_2	46.5 calso_battery	CSO	physical	hr_batteries
SLATE_2_SLA0R3_SUN	SLATE_2	46.5 calso_solar	CSO	physical	hr_batteries
SLATE_2_SLA0R3_LESR	SLATE_3	33.8 calso_battery	CSO	physical	hr_batteries
SLATE_2_SLA0R3_SUN	SLATE_3	33.7 calso_solar	CSO	physical	utility_pv
SLATE_2_SLA0R4	SLATE_4	63 calso_solar	CSO	physical	utility_pv
SLATE_2_SLA0R5_LESR	SLATE_5	10 calso_battery	CSO	physical	hr_batteries
SLATE_2_SLA0R5_SUN	SLATE_5	16 calso_solar	CSO	physical	utility_pv
SLRMS3_2_SMR0R1	SILVER RIDGE MOUNT SIGNAL 3	250 calso_solar	CSO	physical	utility_pv
SLSTR1_2_S0LAR1	QUINTO SOLAR PV PROJECT	107.6 calso_solar	CSO	physical	utility_pv
SLSTR1_2_S0LAR1	SOLAR STAR 1	310 calso_solar	CSO	physical	utility_pv
SLSTR2_2_S0LAR2	SOLAR STAR 2	276 calso_solar	CSO	physical	utility_pv
SLUSP_2_UNI0T5	SAN LUIS (GANELLI) PUMP-GEN AGGREGA	374.43 calso_pumped_hydro	CSO	physical	pumped_storage
SLVCRK_1_UNI0T 1	SLV CREEK HYDRO	13 calso_hydro	CSO	physical	hydro
SMRPR1_1_SMP0SON	RIPON COGENERATION UNIT 1	46.05 calso_peak1r	CSO	physical	cogen
SMRCOS_6_LND0FL	SAN MARCOS ENERGY	1.5 calso_biomass	CSO	physical	biomass_wood
SMRUGO_7_UNI0T 1	SONOMA POWER PLANT	64 calso_geothermal	CSO	physical	geothermal
SMRINA_1_0LS0R1	DELAND LAND 1	1 calso_solar	CSO	physical	utility_pv
SNCLRA_2_H0WLNG	HOUWELINGS NURSERIES ONNARD, INC	12.71 calso_biomass	CSO	physical	biomass_wood
SNCLRA_2_SIL0T1	SILVERSTRAND BESS	11 calso_battery	CSO	physical	hr_batteries
SNCLRA_2_SPRHYD	SPRINGVILLE HYDROELECTRIC GENERATOR	1 calso_small_hydro	CSO	physical	small_hydro
SNCLRA_2_UNI0T	CHANNEL ISLANDS POWER	27.5 calso_chp	CSO	physical	cogen
SNCLRA_2_UNI0T1	NEW INDY ONNARD	27.8 calso_chp	CSO	physical	cogen
SNCLRA_2_VES0B1	VENTURA ENERGY STORAGE	100 calso_battery	CSO	physical	hr_batteries
SNCLRA_6_OXNG	OXGEN	47.7 calso_chp	CSO	physical	cogen
SNCLRA_6_PROCGN	PLECTER AND GAMBLE ONNARD 2	47.9 calso_chp	CSO	physical	cogen
SNCLRA_6_OF	SANTA CLARA QFS	1.65 calso_small_hydro	CSO	physical	small_hydro
SNDBAR_7_UNI0T 1	SANDBAR	16.2 calso_hydro	CSO	physical	hydro
SNMAUF_6_UNI0T5	SONOMA COUNTY LANDFILL	5 calso_biomass	CSO	physical	biomass_wood
SNORA_2_SNRSLR	SG SORRENTO	50 calso_solar	CSO	physical	utility_pv
SOL_GEN	NAN	20 idt_solar	IID	physical	utility_pv
SOLBLU_2_VSB0X2	WESTLANDS SOLAR BLUE BESS	225 calso_battery	CSO	physical	hr_batteries
SOLBLU_2_VSB0X2	WESTLANDS SOLAR BLUE	250 calso_solar	CSO	physical	utility_pv
SONRISASOLAR	NAN	100 calso_solar	CSO	physical	utility_pv
SONRISASTORAGE	NAN	30 calso_battery	CSO	physical	hr_batteries
SOUTH_2_UNI0T	SOUTH HYDRO	7.1 calso_small_hydro	CSO	physical	small_hydro
SPLA_OGGR_3_CC	NAN	157 bntc_crgt	BANC	physical	gas_cc
SPANSH_6_FBEHY1	FIVE BEARS HYDROELECTRIC	0.99 calso_hydro	CSO	physical	hydro
SPLAUD_6_UNI0T 3	SPAULDING HYDRO PH 3 UNIT	6.5 calso_hydro	CSO	physical	hydro
SPLAUD_6_UNI0T2	SPAULDING HYDRO PH 1 & 2 AGGREGATE	11.4 calso_hydro	CSO	physical	hydro
SPBURN_2_UNI0T 1	BURNEY BIOMASS	22 calso_biomass	CSO	physical	biomass_wood
SPBURN_2_S0N0WMT	BURNEY CREEK HYDRO	3 calso_small_hydro	CSO	physical	small_hydro
SPI_U0_2_UNI0T 1	LINCOLN BIOMASS	17.2 calso_biomass	CSO	physical	biomass_wood
SPAND_1_AND0N2	SPI ANDERSON 2	27.15 calso_biomass	CSO	physical	biomass_wood
SPCR_1_UNI0T5	SPIKER HYDRO UNITS 1-3 AGGREGATE	6 calso_small_hydro	CSO	physical	small_hydro
SPFBD_1_PL1X2	SIERRA PACIFIC IND. (SONORA)	7.5 calso_biomass	CSO	physical	biomass_wood
SPONT_2_MEAD0YN	SPONT_2_MEAD0YN	325 SW_CCGT	WALC	specifiedimport	gas_cc
SPONT_2_PARK0RYN	SOUTHPONT ENERGY CENTER	200 SW_CCGT	WALC	specifiedimport	gas_cc
SPQUIN_6_SPRC0Y	QUINCY BIOMASS	24 calso_biomass	CSO	physical	biomass_wood
SPRGAP_1_UNI0T 1	SPRING GAP HYDRO	7 calso_hydro	CSO	physical	hydro
SPRGVL_2_CREST	NAN	3 calso_solar	CSO	physical	utility_pv
SPRGVL_2_EVETPV	EXETER TULARE PV	3.5 calso_solar	CSO	physical	utility_pv
SPRGVL_2_LND0PV	LINDSAY TULARE PV	4 calso_solar	CSO	physical	utility_pv
SPRGVL_2_P0RTPV	PORTERVILLE TULARE PV	3.5 calso_solar	CSO	physical	utility_pv
SPRGVL_2_OF	SPRINGVILLE QFS	0.18 calso_small_hydro	CSO	physical	cogen
SPRGVL_2_TULE	TULE RIVER HYDRO PLANT (PGE)	6.4 calso_small_hydro	CSO	physical	small_hydro
SPRGVL_2_TULESC	TULE RIVER HYDRO PLANT (SCE)	2.5 calso_small_hydro	CSO	physical	small_hydro
SPRINGBOK_1	NAN	108 ldlwp_solar	LADWP	physical	utility_pv
SPRINGBOK_2	NAN	165 ldlwp_solar	LADWP	physical	utility_pv
SPRINGBOK_3	NAN	90 ldlwp_solar	LADWP	physical	utility_pv
SRNTL_6_UNI0T	SRI INTERNATIONAL	6.9 calso_chp	CSO	physical	cogen
STANIS_7_UNI0T 1	STANISLAUS HYDRO	91 calso_hydro	CSO	physical	hydro
STANTN_2_S8EBX2	STANTON BATTERY ENERGY STORAGE	68.8 calso_battery	CSO	physical	hr_batteries
STANTN_2_STAGT1	STANTON 1	49.65 calso_peak1r	CSO	physical	gas_ct
STANTN_2_STAGT2	STANTON 2	49.65 calso_peak1r	CSO	physical	gas_ct
STAUFF_1_UNI0T	NAN	4.6 calso_chp	CSO	physical	cogen
STRICT_2_L0D1	LOD STIC UNIT	49.9 calso_peak2r	CSO	physical	gas_ct
STRBES_1_UNI0T	COVANTA STANISLAUS	19.9 calso_biomass	CSO	physical	biomass_wood
STOILS_1_UNI0T5	CHEVRON RICHMOND REFINERY	56.2 calso_chp	CSO	physical	cogen
STOREY_2_M0RCH2	MADERA CHOWCHILLA 2	0.56 calso_small_hydro	CSO	physical	small_hydro
STOREY_2_M0RCH3	MADERA CHOWCHILLA 3	0.42 calso_small_hydro	CSO	physical	small_hydro
STOREY_2_M0RCH4	MADERA CHOWCHILLA 4	0.92 calso_small_hydro	CSO	physical	small_hydro
STOREY_2_M0RCHW	MADERA CANAL SITE 980	1.84 calso_small_hydro	CSO	physical	small_hydro
STRAUS_1_STRW0D1	STRAUSS WIND, LLC	95.20 calso_wind	CSO	physical	in_state_wind_south
STROUD_6_S0LAR	STROUD SOLAR STATION	20 calso_solar	CSO	physical	utility_pv
STROUD_6_VWWSR1	WINTER WHEAT SOLAR FARM	1.5 calso_solar	CSO	physical	utility_pv
SUMWHT_6_SWSSR1	SUMMER WHEAT SOLAR FARM	18.5 calso_solar	CSO	physical	utility_pv
SUN_ED0SN_VI0TORVILLE_SOLAR	NAN	10 calso_solar	CSO	physical	utility_pv
SUNCAT_2_AJABT1	ARLINGTON SOLAR UNIT 1A BESS	47 calso_battery	CSO	physical	hr_batteries
SUNCAT_2_AJABT1	ARLINGTON SOLAR UNIT 3A BESS	63 calso_battery	CSO	physical	hr_batteries
SUNCAT_2_AJABT2	ARLINGTON SOLAR UNIT 2A BESS	132 calso_battery	CSO	physical	hr_batteries
SUNCAT_2_AZBSR2	ARLINGTON SOLAR UNIT 2B	133 calso_solar	CSO	physical	utility_pv
SUNPAC_ID	NAN	23 idt_solar	IID	physical	utility_pv
SUNRIS_2_PL1X3	SUNRISE POWER PROJECT AGGREGATE II	586.02 calso_crgt1	CSO	physical	gas_cc
SUNSET_2_UNI0T5	MIDWAY SUNSET COGENERATION PLANT	248 calso_peak1r	CSO	physical	cogen
SUNSHN_2_LND0L	SUNSHINE GAS PRODUCERS	20 calso_biomass	CSO	physical	biomass_wood
SUNSLR_1_S5V0R1	SUNSHINE VALLEY SOLAR 1	100 calso_solar	CSO	physical	utility_pv
SUNSPT_2_WNASR1	WINDHUB SOLAR A	20 calso_solar	CSO	physical	utility_pv
SUNST2_5_S5ZSR1	SUN STREAMS SOLAR 2	150 calso_solar	CSO	physical	utility_pv
SUNSTR_5_S51CCDYN	SUNSTREAM SOLAR 1	150 SW_SOLAR	ADPS	specifiedimport	out_of_state_wind_A2NM
SUTTER_2_C5D0	SUTTER POWER PLANT PSEUDO-C5D0	275 calso_crgt1	CSO	physical	gas_cc
SUTTERENERGYCC_TOTAL	SUTTER POWER PLANT	250 bntc_crgt	BANC	specifiedimport	gas_cc
SWIFT_1_NAS	YERBA BUENA BATTERY	4.8 calso_battery	CSO	physical	hr_batteries
SYCAMR_2_UNI0T 1	SYCAMORE COGENERATION UNIT 1	74 calso_chp	CSO	physical	cogen
SYCAMR_2_UNI0T 2	SYCAMORE COGENERATION UNIT 2	76 calso_peak1r	CSO	physical	gas_ct
SYCAMR_2_UNI0T 3	SYCAMORE COGENERATION UNIT 3	74 calso_chp	CSO	physical	cogen
SYCAMR_2_UNI0T 4	SYCAMORE COGENERATION UNIT 4	76 calso_peak1r	CSO	physical	gas_ct
TAMWIL_6_S0LAR1	BERRY COGEN 1B	17 calso_chp	CSO	physical	cogen
TBLMTR_6_OF	SMALL OF AGGREGATION - PARADISE	1.7 calso_small_hydro	CSO	physical	small_hydro
TECOLOTE_3_WB0YN	TECOLOTE WIND	271.68 calso_wind	PNM	specifiedimport	out_of_state_wind_A2NM
TEHAP1_2_PW1WD01	POINT WIND 1	47.49 calso_solar	CSO	physical	in_state_wind_south
TEHAP1_2_PW2WD02	POINT WIND 2	14.4 calso_wind	CSO	physical	in_state_wind_south
TEHAP1_2_WIND01	WIND WALL MONOLITH 1	19.85 calso_wind	CSO	physical	in_state_wind_south
TEHAP1_2_WIND02	WIND WALL MONOLITH 2	23.66 calso_wind	CSO	physical	in_state_wind_south
TENGLEN_2_PL1X2	BERRY COGEN 42	37.7 calso_chp	CSO	physical	cogen
TERMOX_2_PL1X3	TDN	625 calso_crgt1	CSO	physical	gas_cc
TESLA_1_OF	SMALL OF AGGREGATION - STOCKTON	2 calso_small_hydro	CSO	physical	small_hydro
THERMONO1_2	NAN	14 calso_geothermal	CSO	physical	geothermal
THREE_MILL_CANYON	NAN	9.9 mw_wind	PACW	physical	out_of_state_wind_WAOR
TIDWTE_2_UNI0T5	MARTINEZ COGEN LIMITED PARTNERSHIP	114.8 calso_chp	CSO	physical	cogen
TIERRA_DEL_SOL_SOLAR_FARM	NAN	45 lid_solar	IID	physical	utility_pv
TIFFNY_1_DILLON	TIFFNY_1_DILLON	45 calso_wind	CSO	physical	in_state_wind_south
TIGRCK_7_UNI0T5	TIGER CREEK HYDRO AGGREGATE	62 calso_hydro	CSO	physical	hydro
TIFANS_2_T5SSR1	TTAN SOLAR 1 PSEUDO	70 calso_solar	CSO	physical	utility_pv
TKOPWR_6_HYDRO	BEAR CREEK HYDROELECTRIC PROJECT	2.83 calso_small_hydro	CSO	physical	small_hydro
TMPLTN_2_SOLAR	VINTNER SOLAR	1.5 calso_solar	CSO	physical	utility_pv
TOADT0W_6_UNI0T	TOAD TOWN	1.5 calso_small_hydro	CSO	physical	small_hydro
TOPAZ_2_SOLAR	TOPAZ SOLAR FARMS	500 calso_solar	CSO	physical	utility_pv
TORTLA_1_SOLAR	LONGBOAT SOLAR	20 calso_solar	CSO	physical	utility_pv
TOWNSITE_2_MEAD0YN_LESR	TOWNSITE SOLAR BESS	90 calso_battery	CSO	physical	hr_batteries
TOWNSITE_2_MEAD0YN_SUN	TOWNSITE SOLAR BESS	90 calso_solar	CSO	physical	utility_pv
TRNQLR_2_AJASR1	TRANQUILITY 8 AMARILLO	20 calso_solar	CSO	physical	utility_pv
TRNQLR_2_AZUSR1	TRANQUILITY 8 AZUL	20 calso_solar	CSO	physical	utility_pv
TRNQLR_2_ROISR1	TRANQUILITY 8 ROJO	100 calso_solar	CSO	physical	utility_pv
TRNQLR_2_VERSR1	TRANQUILITY 8 VERDE	60 calso_solar	CSO	physical	utility_pv
TRNQLT_2_BETB1	NAN	72 calso_battery	CSO	physical	hr_batteries
TRNQLT_2_SOLAR	TRANQUILITY	200 calso_solar	CSO	physical	utility_pv
TRNSWD_1_OF	FPL ENERGY C WIND	38.97 calso_wind	CSO	physical	in_state_wind_south
TULARE_2_TFC0M1	LB TRIGEN FUEL CELL 1	2.8 calso_biogas	CSO	physical	biogas
TULARE_2_TULB0M1	TULARE BIOMAT FUEL CELL	2.8 calso_biomass	CSO	physical	biomass_wood
TULEWD_1_TULW01	TULE WIND	130.5 calso_wind	CSO	physical	in_state_wind_south
TULUCK_7_UNI0T5	TULUCK HYDRO	25.9 calso_hydro	CSO	physical	hydro
TUMBWD_2_WSBT3	WILLOW SPRINGS SOLAR 3	50 calso_solar	CSO	physical	hr_batteries
TUMBWD_2_WSBT4	WILLOW SPRINGS SOLAR 4	75 calso_solar	CSO	physical	hr_batteries
TUPMAN_1_BIOGAS	ABEC BIDART-STOCKALE #1	0.6 calso_biomass	CSO	physical	biomass_wood
TVVYL_6_KR0YH1	KINGS RIVER SYNPHON	1.3 calso_hydro	CSO	physical	utility_pv
TWSSL_6_S0LAR	NICKEL 1 (TNH1)	1.5 calso_solar	CSO	physical	utility_pv
TWSSL_6_S0LAR1	CORONAL LOST HILLS	20 calso_solar	CSO	physical	utility_pv
TX_ELK_6_S0LAR1	CASTOR	1.5 calso_solar	CSO	physical	utility_pv
TX_ELK_6_E0CSR2	EAGLE CREEK	3 calso_solar	CSO	physical	utility_pv
TXMCKT_6_UNI0T	MCINTTRICK COGEN	11.2 calso_chp	CSO	physical	cogen
UC_DAVIS_MC	NAN	27 bntc_crgt	BANC	specifiedimport	gas_cc
UDIAH_7_LAKEM01	UKIAH LAKE MENDOCINO HYDRO	3.5 calso_small_hydro	CSO	physical	small_hydro
UTCPCH_1_UC0B1	ULTRAPOWER CHINESE STATION BESS	10 calso_battery	CSO	physical	hr_batteries
UTCPCH_1_UNI0T 1	PACIFIC ULTRAPOWER CHINESE STATION	18 calso_biomass	CSO	physical	biomass_wood
UTPFR_1_UNI0T 1	RIO BRAVO PRESNO	24.3 calso_biomass	CSO	physical	biomass_wood

ULTRCK_2_UNIT	RIO BRAVO ROCKLIN	24.4 calso_biomass	CSO	physical	biomass_wood
UNCHEM_1_UNIT	CONTRA COSTA CARBON PLANT	19 calso_chp	CSO	physical	cogen
UNCLAC_1_UNITS	TOSCO (KROEO PLANT)	49.85 calso_chp	CSO	physical	cogen
UNWRVY_1_UNIT1	BERRY COGEN 38 - UNIT 1	38 calso_chp	CSO	physical	cogen
USWND2_1_WIND1	GOLDEN HILLS A	42.96 calso_wind	CSO	physical	in_state_wind_north
USWND2_1_WIND2	GOLDEN HILLS B	42.96 calso_wind	CSO	physical	in_state_wind_north
USWND2_1_WIND3	GOLDEN HILLS C	46 calso_wind	CSO	physical	in_state_wind_north
USWNO4_2_UNIT2	ALAMONT LANDFILL GAS TO ENERGY	7.4 calso_biogas	CSO	physical	biogas
USWNO4_2_LARW01	LABRISA WIND PROJECT	9 calso_wind	CSO	physical	in_state_wind_north
USWNO4_2_SAU0	SOLANO WIND FARM	102.8 calso_wind	CSO	physical	in_state_wind_north
USWNO4_2_SAU02	SOLANO WIND PROJECT PHASE 3	127.8 calso_wind	CSO	physical	in_state_wind_north
USWNO4_2_UNITS	NAN	8 calso_wind	CSO	physical	in_state_wind_south
USWPK_6_FRICK	FRICK SUMMIT WIND REPOWER	10 calso_wind	CSO	physical	in_state_wind_north
USWPK_2_UNITS	VASCO WIND	78.2 calso_wind	CSO	physical	in_state_wind_north
V2_GEN	NAN	3.1 iid_solar	IID	specifiedimport	utility_pv
V3_GEN	NAN	3.1 iid_solar	IID	specifiedimport	utility_pv
VACADZ_1_NAS	VACA-DIXON BATTERY	0.7 calso_li_battery	CSO	physical	hr_batteries
VACADZ_1_SOLAR	VACA-DIXON SOLAR STATION	2.5 calso_solar	CSO	physical	utility_pv
VACADZ_1_UNITA1	CALPEAK POWER VACA DIXON UNIT 1	51.91 calso_peaker2	CSO	physical	gas_ct
VALLEY_5_ORTB1	ORTEGA GRID	20 calso_li_battery	CSO	physical	hr_batteries
VALLEY_5_PERRIS	MWD PERRIS HYDROELECTRIC RECOVERY P	7.94 calso_small_hydro	CSO	physical	small_hydro
VALLEY_5_REDMTH	MWD RED MOUNTAIN HYDROELECTRIC REI	5.9 calso_hydro	CSO	physical	hydro_pv
VALLEY_5_RTS044	NAN	8 calso_solar	CSO	physical	utility_pv
VALLEY_5_SOLAR1	KONA SOLAR - MERIDIAN #1	1.49 calso_solar	CSO	physical	utility_pv
VALLEY_5_SOLAR2	AP NORTH LAKE SOLAR	20 calso_solar	CSO	physical	utility_pv
VALLEY_CC	NAN	529 ldwp_crgt	LADWP	specifiedimport	gas_ct
VALLEY_UNIT_5	NAN	47 ldwp_peaker	LADWP	specifiedimport	gas_ct
VALTNE_2_AVASR1	VALENTINE SOLAR	100 calso_solar	CSO	physical	utility_pv
VALTNE_2_TB8BT1	NAN	58 calso_solar	CSO	physical	utility_pv
VALTNE_2_TR8BT1	TROPICO SOLAR	70 calso_li_battery	CSO	physical	hr_batteries
VAN_DER_KOOI_DAIRY_DIGESTER	NAN	0.8 calso_biogas	CSO	physical	biogas
VEAVST_1_SOLAR	COMMUNITY SOLAR	14.4 calso_solar	CSO	physical	utility_pv
VEDDER_1_SEKERN	TEXACO EXPLORATION & PROD (SE KER) RI	34.47 calso_chp	CSO	physical	cogen
VEGA_6_SOLAR1	VEGA SOLAR	20 calso_solar	CSO	physical	utility_pv
VENWO_1_WIND1	WINDPARK UNLIMITED 1	12.19991471 calso_wind	CSO	physical	in_state_wind_south
VENWO_1_WIND2	WINDPARK UNLIMITED 2	16 calso_wind	CSO	physical	in_state_wind_south
VENWO_1_WIND3	PAINTED HILLS	44.53 calso_wind	CSO	physical	in_state_wind_south
VERNON_6_GONZ1	H. GONZALES UNIT #1	5.75 calso_peaker1	CSO	physical	gas_ct
VERNON_6_GONZ2	H. GONZALES UNIT #2	5.75 calso_peaker1	CSO	physical	gas_ct
VERNON_6_MALBRG	MALBURG GENERATING STATION	139 calso_crgt2	CSO	physical	gas_ct
VESTAL_2_RT8BT1	BOTTLENECK ENERGY STORAGE	80 calso_li_battery	CSO	physical	hr_batteries
VESTAL_2_KERN	KERN RIVER PH 3 UNITS 1 & 2 AGGREGATE	36.8 calso_hydro	CSO	physical	hydro
VESTAL_2_RTS042	SPV042 PORTERVILLE SOLAR	5 calso_solar	CSO	physical	utility_pv
VESTAL_2_SOLAR1	NICOLIS	20 calso_solar	CSO	physical	utility_pv
VESTAL_2_SOLAR2	TROPICO	14 calso_solar	CSO	physical	utility_pv
VESTAL_2_TSSSR1	TULARE SOLAR 5	55.83 calso_solar	CSO	physical	utility_pv
VESTAL_2_UNIT1	CALGEN-PIXLEY	5 calso_chp	CSO	physical	cogen
VESTAL_2_WELH0	WELHEAD POWER DELANO	59 calso_peaker1	CSO	physical	gas_ct
VESTAL_6_OF	ISABELLA HYDRO DAM 1	11.85 calso_small_hydro	CSO	physical	small_hydro
VICPAS_2_SLO8T1	SLOTH BESS	15 calso_li_battery	CSO	physical	hr_batteries
VICPAS_2_SLOS1	SLOTH	49.5 calso_solar	CSO	physical	utility_pv
VICPAS_2_SOC0T1	SOL CATCHER BESS 1	50 calso_li_battery	CSO	physical	hr_batteries
VICPAS_2_SOC0T2	SOL CATCHER BESS 2	71 calso_li_battery	CSO	physical	hr_batteries
VICPAS_2_SOC1S1	SOL CATCHER BESS PV1	100 calso_solar	CSO	physical	utility_pv
VICPAS_2_SOC1S2	SOL CATCHER BESS PV2	93.5 calso_solar	CSO	physical	utility_pv
VICPAS_2_SOC1S3	SOL CATCHER BESS PV3	20 calso_solar	CSO	physical	utility_pv
VICPAS_2_VPS8T1	VICTORY PASS SOLAR BESS	60 calso_li_battery	CSO	physical	hr_batteries
VICPAS_2_VPS1S1	VICTORY PASS SOLAR	200 calso_solar	CSO	physical	utility_pv
VICTOR_1_CREST	NAN	24.5 calso_solar	CSO	physical	utility_pv
VICTOR_1_EXS1A	EXPRESSWAY SOLAR A	2 calso_solar	CSO	physical	utility_pv
VICTOR_1_EXS1B	EXPRESSWAY SOLAR B	2 calso_solar	CSO	physical	utility_pv
VICTOR_1_LMASR1	MADELYN	1 calso_solar	CSO	physical	utility_pv
VICTOR_1_LMS1S2	LANDPRO MITCHELL	1.5 calso_solar	CSO	physical	utility_pv
VICTOR_1_LMS1S3	LANDPRO RUDY	1.5 calso_solar	CSO	physical	utility_pv
VICTOR_1_LVS1R1	LONE VALLEY SOLAR PARK 1	10 calso_solar	CSO	physical	utility_pv
VICTOR_1_LVS1R2	LONE VALLEY SOLAR PARK 2	20 calso_solar	CSO	physical	utility_pv
VICTOR_1_NUNSR4	NUAN	1 calso_solar	CSO	physical	utility_pv
VICTOR_1_SUN1S	SUNEDISON - HESPERIA	1.5 calso_solar	CSO	physical	utility_pv
VICTOR_1_SOLAR1	VICTOR PHELAN SOLAR ONE	17.5 calso_solar	CSO	physical	utility_pv
VICTOR_1_SOLAR2	ALAMO SOLAR	20 calso_solar	CSO	physical	utility_pv
VICTOR_1_SOLAR3	ADLANTO SOLAR 2	7 calso_solar	CSO	physical	utility_pv
VICTOR_1_SOLAR4	ADLANTO SOLAR	20 calso_solar	CSO	physical	utility_pv
VICTOR_1_VDRYFA	VICTOR DRY FARM RANCH A	5 calso_solar	CSO	physical	utility_pv
VICTOR_1_VDRYFB	VICTOR DRY FARM RANCH B	5 calso_solar	CSO	physical	utility_pv
VIRING_2_VSHS1_L1S3	VIRKINGS SOLAR BESS HYBRID PROJECT	150 iid_li_battery	IID	specifiedimport	hr_batteries
VIRING_2_VSHS1_SUN	VIRKINGS SOLAR BESS HYBRID PROJECT	132 iid_solar	IID	specifiedimport	utility_pv
VILLPK_2_VALLV	MWD VALLEY VIEW HYDROELECTRIC RECO	41 calso_hydro	CSO	physical	hydro
VILLPK_6_MWDYOR	YORBA LINDA HYDROELECTRIC RECOVERY F	5.1 calso_hydro	CSO	physical	hydro
VINCNT_2_OF	NAN	207 calso_wind	CSO	physical	in_state_wind_south
VINCNT_2_WESTW0	NAN	59 calso_wind	CSO	physical	in_state_wind_south
VISTA_2_FCELL	CSUS FUEL CELL	1.4 calso_chp	CSO	physical	cogen
VISTA_2_RALTO	RIALTO RT SOLAR	1 calso_solar	CSO	physical	utility_pv
VISTA_2_RS028	SPV028	3.5 calso_solar	CSO	physical	utility_pv
VISTA_6_OF	VISTA QPS	0.18 calso_small_hydro	CSO	physical	small_hydro
VISTRA_5_DALB1	DALLAS ENERGY STORAGE	100 calso_li_battery	CSO	physical	hr_batteries
VISTRA_5_DALB2	DALLAS ENERGY STORAGE 2	100 calso_li_battery	CSO	physical	hr_batteries
VISTRA_5_DALB3	DALLAS ENERGY STORAGE 3	100 calso_li_battery	CSO	physical	hr_batteries
VISTRA_5_DALB4	DALLAS ENERGY STORAGE 4	100 calso_li_battery	CSO	physical	hr_batteries
VISTRA_5_PLAB1	PLANO STORAGE 1	100.4 calso_li_battery	CSO	physical	hr_batteries
VISTRA_5_PLAB2	PLANO STORAGE 2	100.4 calso_li_battery	CSO	physical	hr_batteries
VISTRA_5_PLAB3	PLANO STORAGE 3	74.6 calso_li_battery	CSO	physical	hr_batteries
VISTRA_5_PLAB4	PLANO STORAGE 4	74.6 calso_li_battery	CSO	physical	hr_batteries
VLCNTR_6_VCEB1	VALLEY CENTER ENERGY STORAGE	54 calso_li_battery	CSO	physical	hr_batteries
VLCNTR_6_VCEB2	VALLEY CENTER ENERGY STORAGE B	85 calso_li_battery	CSO	physical	hr_batteries
VLCNTR_6_VCS1R	COLE GRADE	2.23 calso_solar	CSO	physical	utility_pv
VLCNTR_6_VCS1R1	VALLEY CENTER 1	2.5 calso_solar	CSO	physical	utility_pv
VLCNTR_6_VCS1R2	VALLEY CENTER 2	5 calso_solar	CSO	physical	utility_pv
VLIHDM_2_SS10	WOODWARD POWER PLANT	104 calso_small_hydro	CSO	physical	small_hydro
VOLTA_2_UNIT 1	VOLTA HYDRO UNIT 1	9.1 calso_hydro	CSO	physical	hydro
VOLTA_2_UNIT 2	VOLTA HYDRO UNIT 2	1 calso_hydro	CSO	physical	hydro
VOLTA_6_BAILCK	BAILEY CREEK RANCH	0.63 calso_hydro	CSO	physical	hydro
VOLTA_6_DIGHY0	DIGGER CREEK RANCH HYDRO	0.6 calso_small_hydro	CSO	physical	small_hydro
VOLTA_7_P0NUY1	VOLTA_7_P0NUY1	1.25 calso_hydro	CSO	physical	hydro
VOLTA_7_QFUNT1	VOLTA_7_QFUNT1	0.15 calso_small_hydro	CSO	physical	small_hydro
VOYAGR_2_VOAW05	VOYAGER WIND OASIS ALTA	13.98 calso_wind	CSO	physical	in_state_wind_south
VOYAGR_2_VOYWD1	VOYAGER 1	128.91 calso_wind	CSO	physical	in_state_wind_south
VOYAGR_2_VOYWD2	VOYAGER WIND 2	126.55 calso_wind	CSO	physical	in_state_wind_south
VOYAGR_2_VOYWD3	VOYAGER WIND 3	42.45 calso_wind	CSO	physical	in_state_wind_south
VOYAGR_2_VOYWD4	VOYAGER WIND 4	21.01 calso_wind	CSO	physical	in_state_wind_south
VSTAE_6_VESB1	VISTA ENERGY STORAGE	40 calso_li_battery	CSO	physical	hr_batteries
VULCAN_1	NAN	18 iid_geothermal	IID	specifiedimport	geothermal
VULCAN_2	NAN	10.74 iid_geothermal	IID	specifiedimport	geothermal
VULCAN_EXPANDER	NAN	10.5 iid_geothermal	IID	specifiedimport	geothermal
WADHAM_6_UNIT	WADHAM ENERGY LP	29.07 calso_biomass	CSO	physical	biomass_wood
WALCRK_2_CT01	WALNUT CREEK ENERGY PARK UNIT 1	97.32 calso_peaker1	CSO	physical	gas_ct
WALCRK_2_CT02	WALNUT CREEK ENERGY PARK UNIT 2	96.91 calso_peaker1	CSO	physical	gas_ct
WALCRK_2_CT03	WALNUT CREEK ENERGY PARK UNIT 3	96.65 calso_peaker1	CSO	physical	gas_ct
WALCRK_2_CT04	WALNUT CREEK ENERGY PARK UNIT 4	96.6 calso_peaker1	CSO	physical	gas_ct
WALCRK_2_CT05	WALNUT CREEK ENERGY PARK UNIT 5	96.65 calso_peaker1	CSO	physical	gas_ct
WALNUT_2_SOLAR	INDUSTRY METROLINK PV 1	1.5 calso_solar	CSO	physical	utility_pv
WALNUT_6_HILLGEN	PUEBLO HILLS	47 calso_biomass	CSO	physical	biomass_wood
WALNUT_7_WCOVCT	NAN	0.2 calso_geothermal	CSO	physical	geothermal
WALNUT_7_WCOVST	MM WEST COVINA - ST UNIT	6.5 calso_biomass	CSO	physical	biomass_wood
WARNE_2_UNIT	WARNE HYDRO AGGREGATE	76 calso_hydro	CSO	physical	hydro
WAIKUA_1_SOLAR	CORCORAN SOLAR	20 calso_solar	CSO	physical	utility_pv
WAIKUA_1_SOLAR2	CORCORAN 2	19.75 calso_solar	CSO	physical	utility_pv
WOPRDE_2_WFBT1	WEST FORD FLAT ENERGY STORAGE	25 calso_li_battery	CSO	physical	hr_batteries
WOLEAF_7_UNIT 1	WOODLEAF HYDRO	60 calso_hydro	CSO	physical	hydro
WIEBER_6_FORW0D	FORWARD	4.1 calso_biomass	CSO	physical	biomass_wood
WISCAN_2_IB0BT1	BATERIA DEL SUR	131 calso_li_battery	CSO	physical	hr_batteries
WESTPT_2_UNIT	WEST POINT HYDRO PLANT	14 calso_small_hydro	CSO	physical	small_hydro
WFRSN_1_SOLAR	JOYA DEL SOL	1.5 calso_solar	CSO	physical	utility_pv
WHEAT_6_LNDR1L	G2 ENERGY, OSTROM ROAD, LLC	3.55 calso_biomass	CSO	physical	biomass_wood
WHITEH_2_MEADYN1	WHITE HILLS A	50 calso_wind	WALC	specifiedimport	out_of_state_wind_A2NM
WHITEH_2_MEADYN2	WHITE HILLS B	300 calso_wind	WALC	specifiedimport	out_of_state_wind_A2NM
WHITEN_5_WWVRS1	WHITE WING RANCH SOLAR	179 calso_solar	CSO	specifiedimport	utility_pv
WHITNY_6_SOLAR	WHITNEY POINT SOLAR	20 calso_solar	CSO	physical	utility_pv
WHITWTR_1_WINDA1	WHITEWATER HILL WIND PROJECT	61.5 calso_wind	CSO	physical	in_state_wind_south
WILLMS_6_ARBBM1	ABEL ROAD BIOENERGY	3 calso_biomass	CSO	physical	biogas
WILSONASOLAR	NAN	14 calso_solar	CSO	physical	utility_pv
WISE_1_UNIT 1	WISE HYDRO UNIT 1	14.5 calso_hydro	CSO	physical	hydro
WISE_1_UNIT 2	WISE HYDRO UNIT 2	3.2 calso_hydro	CSO	physical	hydro
WISHON_6_UNITS	WISHON/SAN JOAQUIN #1-A AGGREGATE	18.4 calso_small_hydro	CSO	physical	small_hydro
WISTER_2_WISSR1	WISTER SOLAR	20 calso_solar	CSO	physical	utility_pv
WISTRA_2_WISSR1	WISTARA RANCH SOLAR	100 calso_solar	CSO	physical	utility_pv
WILDWO_1_SOLAR1	WILDWOOD SOLAR 1	20 calso_solar	CSO	physical	utility_pv
WILDWO_1_SOLAR2	WILDWOOD SOLAR 2	15 calso_solar	CSO	physical	utility_pv
WINDMAS_2_UNIT 1	BUENA VISTA ENERGY, LLC	38 calso_wind	CSO	physical	in_state_wind_north
WINDSTR_2_WIND	WINDSTAR	120 calso_wind	CSO	physical	in_state_wind_south
WOLFSK_1_UNITA1	WOLFSKILL ENERGY CENTER	48.68 calso_peaker2	CSO	physical	gas_ct
WOODLAND_1	NAN	49 banc_peaker	BANC	specifiedimport	gas_ct
WOODLAND_3A	NAN	8.2 banc_reciprocating_engine	BANC	specifiedimport	ice
WOODLAND_3B	NAN	8.2 banc_reciprocating_engine	BANC	specifiedimport	ice
WOODLAND_3C	NAN	8.2 banc_reciprocating_engine	BANC	specifiedimport	ice

WOODLAND_30	NAN	8.2 banc_reciprocating_engine	BANC	specifiedimport	ice
WOODLAND_3E	NAN	8.2 banc_reciprocating_engine	BANC	specifiedimport	ice
WOODLAND_3F	NAN	8.2 banc_reciprocating_engine	BANC	specifiedimport	ice
WOODLAND_CC	NAN	84.2 banc_crgt	BANC	specifiedimport	gas_cc
WOODWR_1_HYDRO	QUINTEEN LUALLEN	7.3 caiso_hydro	CSO	physical	hydro
WRIGHT_7_AMENGY	SMALL OF AGGREGATION - LOS BANOS	2.5 caiso_hydro	CSO	physical	hydro
WRIGHT_2_W5FS81	WRIGHT SOLAR FREEMAN	200 caiso_solar	CSO	physical	utility_pv
WRIGHTFREEMANSTORAGE	NAN	80 caiso_li_battery	CSO	physical	hr_batteries
WSENGY_1_UNIT 1	WHEELABRATOR SHASTA	50 caiso_biomass	CSO	physical	biomass_wood
WSNR_2_CVPIN	CENTRAL VALLEY 1	10 caiso_hydro	BANC	specifiedimport	hydro
WSNR_2_TESADYN	CENTRAL VALLEY TESLA	10 caiso_hydro	BANC	specifiedimport	hydro
WSNR_5_TRCDYN	CENTRAL VALLEY TRACY	10 caiso_hydro	BANC	specifiedimport	hydro
WSTWIND_2_M89B8T2	MOJAVE 89 BESS 2B	70.6 caiso_li_battery	CSO	physical	hr_batteries
WSTWIND_2_M89WD1_LESR	MOJAVE 89	70.6 caiso_li_battery	CSO	physical	hr_batteries
WSTWIND_2_M89WD1_WIND	MOJAVE 89	82.65 caiso_wind	CSO	physical	in_state_wind_south
WSTWIND_2_M89WD2	MOJAVE 89 WIND	82.65 caiso_wind	CSO	physical	in_state_wind_south
WSTWIND_2_M90B8T1	MOJAVE 50 BESS 1A	15.71 caiso_li_battery	CSO	physical	hr_batteries
WSTWIND_2_M90WD2	MOJAVE 90	64.82 caiso_wind	CSO	physical	in_state_wind_south
WSTWIND_2_S8S8T1	SAGEBRUSH SOLAR 2	80 caiso_li_battery	CSO	physical	hr_batteries
WSTWIND_2_S8S8T2	SAGEBRUSH SOLAR 2 ESS 40	40 caiso_li_battery	CSO	physical	hr_batteries
WSTWIND_2_S8S8T3	SAGEBRUSH SOLAR 2 ESS 59	59 caiso_li_battery	CSO	physical	hr_batteries
YELPIN_2_YP2B11	YELLOW PINE 2 BESS	85 caiso_li_battery	CSO	physical	hr_batteries
YELPIN_2_YP2B12	YELLOW PINE 2 A BESS	53 caiso_li_battery	CSO	physical	hr_batteries
YELPIN_2_YP2B13	YELLOW PINE 2 B BESS	32 caiso_li_battery	CSO	physical	hr_batteries
YELPIN_2_YP2S81	YELLOW PINE 2	125 caiso_solar	CSO	physical	utility_pv
YELPIN_2_YP2S82	YELLOW PINE 2 A PV	60 caiso_solar	CSO	physical	utility_pv
YELPIN_2_YP2S83	YELLOW PINE 2 B PV	65 caiso_solar	CSO	physical	utility_pv
YUBACT_1_SUNSWT	YUBA CITY COGEN	49.97 caiso_chp	CSO	physical	cogen
YUBACT_6_UNITA1	YUBA CITY ENERGY CENTER (CALPINE)	47.16 caiso_peakster2	CSO	physical	gas_ct
YUCCA_GT21	NAN	22 iid_peaker	IID	specifiedimport	gas_ct
YUCCA_ST1	NAN	75 iid_st	IID	specifiedimport	steam
ZOND_6_UNIT	ZOND WINDSYSTEMS INC.	17.1 caiso_wind	CSO	physical	in_state_wind_north
_BRANCH_GENERIC_AMARGO_ITC	AMARGOSO230	nan	NAN	unspecifiedimport	n/a
_BRANCH_GENERIC_BLYTHE_ITC	BLYTHE61	nan	NAN	unspecifiedimport	n/a
_BRANCH_GENERIC_CASCADE_ITC	CRAIG	nan	NAN	unspecifiedimport	n/a
_BRANCH_GENERIC_CFE_ITC	CFEU & CFEROA	nan	NAN	unspecifiedimport	n/a
_BRANCH_GENERIC_COTPIDO_ITC	TRCOTPIDO	nan	NAN	unspecifiedimport	n/a
_BRANCH_GENERIC_CTW230_ITC	CTW230	nan	NAN	unspecifiedimport	n/a
_BRANCH_GENERIC_ELDOREADO_ITC	WILLOWBEACH	nan	NAN	unspecifiedimport	n/a
_BRANCH_GENERIC_GONDIPDC_ITC	GOMIPP	nan	NAN	unspecifiedimport	n/a
_BRANCH_GENERIC_ID-SCS_ITC	MIR2	nan	NAN	unspecifiedimport	n/a
_BRANCH_GENERIC_ID-SOGE_ITC	VLV12	nan	NAN	unspecifiedimport	n/a
_BRANCH_GENERIC_IPDCADLN_ITC	IPP & IPPUTAH	nan	NAN	unspecifiedimport	n/a
_BRANCH_GENERIC_LAUGHLIN_ITC	MOHAV500	nan	NAN	unspecifiedimport	n/a
_BRANCH_GENERIC_LUNA_ITC	LL115	nan	NAN	unspecifiedimport	n/a
_BRANCH_GENERIC_MALINSO0_ISL	MALINSO0	nan	NAN	unspecifiedimport	n/a
_BRANCH_GENERIC_MARBLE_ITC	MARBLE60	nan	NAN	unspecifiedimport	n/a
_BRANCH_GENERIC_MCMKTPC_ITC	MCCULLOU500	nan	NAN	unspecifiedimport	n/a
_BRANCH_GENERIC_MCCULLOUGH_ITC	ELDOREADO500	nan	NAN	unspecifiedimport	n/a
_BRANCH_GENERIC_MEAD_ITC	MEAD230	nan	NAN	unspecifiedimport	n/a
_BRANCH_GENERIC_MEADMKTPC_ITC	MEAD230	nan	NAN	unspecifiedimport	n/a
_BRANCH_GENERIC_MEADMKTPC_ITC	MEAD230	nan	NAN	unspecifiedimport	n/a
_BRANCH_GENERIC_MERCHMANT_ITC	ELDOREADO230	nan	NAN	unspecifiedimport	n/a
_BRANCH_GENERIC_MERCURY_ITC	MERCURY138	nan	NAN	unspecifiedimport	n/a
_BRANCH_GENERIC_MKTPCADLN_ITC	MARKETPLACE	nan	NAN	unspecifiedimport	n/a
_BRANCH_GENERIC_MOHAPDC_ITC	MOAPP	nan	NAN	unspecifiedimport	n/a
_BRANCH_GENERIC_NEWMELONP_ITC	NML230	nan	NAN	unspecifiedimport	n/a
_BRANCH_GENERIC_NOB_ITC	NOB	nan	NAN	unspecifiedimport	n/a
_BRANCH_GENERIC_NORTHGLASO0_ITC	NORTHGLAS00	nan	NAN	unspecifiedimport	n/a
_BRANCH_GENERIC_NWEST230_ITC	NWEST	nan	NAN	unspecifiedimport	n/a
_BRANCH_GENERIC_ODDALE_ITC	ODDALE	nan	NAN	unspecifiedimport	n/a
_BRANCH_GENERIC_PALOWRIDE_ITC	PWVEST	nan	NAN	unspecifiedimport	n/a
_BRANCH_GENERIC_PARKER_ITC	PARKER230	nan	NAN	unspecifiedimport	n/a
_BRANCH_GENERIC_ROM230_ITC	ROM230	nan	NAN	unspecifiedimport	n/a
_BRANCH_GENERIC_RNCHLAKE_ITC	LAKE & RANCHOSECO	nan	NAN	unspecifiedimport	n/a
_BRANCH_GENERIC_SILVERPK_ITC	SILVERPEAK55	nan	NAN	unspecifiedimport	n/a
_BRANCH_GENERIC_STANDIFORD_ITC	STANDIFORD	nan	NAN	unspecifiedimport	n/a
_BRANCH_GENERIC_SUNMITT_ITC	SUNMITT120	nan	NAN	unspecifiedimport	n/a
_BRANCH_GENERIC_SYLMAR-AC_ITC	SYLMAR	nan	NAN	unspecifiedimport	n/a
_BRANCH_GENERIC_TRACY230_ITC	TESLA230	nan	NAN	unspecifiedimport	n/a
_BRANCH_GENERIC_TRACY500_ITC	TRCPGAE & TRCYCTP	nan	NAN	unspecifiedimport	n/a
_BRANCH_GENERIC_TROYTSLA_ITC	TROYTSLA	nan	NAN	unspecifiedimport	n/a
_BRANCH_GENERIC_VICTVA_ITC	LUGO	nan	NAN	unspecifiedimport	n/a
_BRANCH_GENERIC_WESTLYLNB ITC	WESTLYVINTO	nan	NAN	unspecifiedimport	n/a
_BRANCH_GENERIC_WESTLYTSLA_ITC	WESTLYTSLA	nan	NAN	unspecifiedimport	n/a
_BRANCH_GENERIC_WSTWINGMAD_ITC	WESTWING500	nan	NAN	unspecifiedimport	n/a
_CREZ_GENERIC_ARIZONA_SOLAR	caiso_solar	NAN	newresolve	utility_pv	n/a
_CREZ_GENERIC_ARIZONA_WIND	caiso_wind	NAN	newresolve	out_of_state_wind_A2NM	n/a
_CREZ_GENERIC_BAIA_CALIFORNIA_SOLAR	caiso_solar	NAN	newresolve	utility_pv	n/a
_CREZ_GENERIC_BAIA_CALIFORNIA_WIND	caiso_wind	NAN	newresolve	in_state_wind_south	n/a
_CREZ_GENERIC_CAPE_MENDOCONO_OFFSHORE_WIND	caiso_wind	NAN	newresolve	offshore_wind	n/a
_CREZ_GENERIC_CARRIZO_SOLAR	caiso_solar	NAN	newresolve	utility_pv	n/a
_CREZ_GENERIC_CARRIZO_WIND	caiso_wind	NAN	newresolve	in_state_wind_north	n/a
_CREZ_GENERIC_CENTRAL_VALLEY_NORTH_LOS_BANOS_SOLAR	caiso_solar	NAN	newresolve	utility_pv	n/a
_CREZ_GENERIC_CENTRAL_VALLEY_NORTH_LOS_BANOS_WIND	caiso_wind	NAN	newresolve	in_state_wind_north	n/a
_CREZ_GENERIC_DEI_NORTH_OFFSHORE_WIND	caiso_wind	NAN	newresolve	offshore_wind	n/a
_CREZ_GENERIC_DIABLO_CANYON_EXT_TX_OFFSHORE_WIND	caiso_wind	NAN	newresolve	offshore_wind	n/a
_CREZ_GENERIC_DIABLO_CANYON_OFFSHORE_WIND	caiso_wind	NAN	newresolve	offshore_wind	n/a
_CREZ_GENERIC_DISTRIBUTED_SOLAR	caiso_solar	NAN	newresolve	utility_pv	n/a
_CREZ_GENERIC_DISTRIBUTED_WIND	caiso_wind	NAN	newresolve	in_state_wind_south	n/a
_CREZ_GENERIC_GREATER_IMPERIAL_GEO_THERMAL	caiso_geothermal	NAN	newresolve	geothermal	n/a
_CREZ_GENERIC_GREATER_IMPERIAL_SOLAR	caiso_solar	NAN	newresolve	utility_pv	n/a
_CREZ_GENERIC_GREATER_IMPERIAL_WIND	caiso_wind	NAN	newresolve	in_state_wind_south	n/a
_CREZ_GENERIC_GREATER_KRAMER_SOLAR	caiso_solar	NAN	newresolve	utility_pv	n/a
_CREZ_GENERIC_GREATER_KRAMER_WIND	caiso_wind	NAN	newresolve	in_state_wind_south	n/a
_CREZ_GENERIC_HUMBOLDT_BAY_OFFSHORE_WIND	caiso_wind	NAN	newresolve	offshore_wind	n/a
_CREZ_GENERIC_HUMBOLDT_WIND	caiso_wind	NAN	newresolve	in_state_wind_north	n/a
_CREZ_GENERIC_IDAHO_WIND	caiso_wind	NAN	newresolve	out_of_state_wind_WYID	n/a
_CREZ_GENERIC_INSTATE_BIOMASS	caiso_biomass	NAN	newresolve	biomass_wood	n/a
_CREZ_GENERIC_INYOKEIN_NORTH_KRAMER_GEO_THERMAL	caiso_geothermal	NAN	newresolve	geothermal	n/a
_CREZ_GENERIC_INYOKEIN_NORTH_KRAMER_SOLAR	caiso_solar	NAN	newresolve	utility_pv	n/a
_CREZ_GENERIC_KEIN_GREATER_CARRIZO_SOLAR	caiso_solar	NAN	newresolve	utility_pv	n/a
_CREZ_GENERIC_KEIN_GREATER_CARRIZO_WIND	caiso_wind	NAN	newresolve	in_state_wind_north	n/a
_CREZ_GENERIC_KRAMER_INYOKEIN_EX_SOLAR	caiso_solar	NAN	newresolve	utility_pv	n/a
_CREZ_GENERIC_KRAMER_INYOKEIN_EX_WIND	caiso_wind	NAN	newresolve	in_state_wind_south	n/a
_CREZ_GENERIC_MORRO_BAY_OFFSHORE_WIND	caiso_wind	NAN	newresolve	offshore_wind	n/a
_CREZ_GENERIC_MOUNTAIN_PASS_EX_DORADO_SOLAR	caiso_solar	NAN	newresolve	utility_pv	n/a
_CREZ_GENERIC_NEW_MEXICO_SOLAR	caiso_solar	NAN	newresolve	utility_pv	n/a
_CREZ_GENERIC_NEW_MEXICO_WIND	caiso_wind	NAN	newresolve	out_of_state_wind_A2NM	n/a
_CREZ_GENERIC_NORTH_VICTOR_SOLAR	caiso_solar	NAN	newresolve	utility_pv	n/a
_CREZ_GENERIC_NORTHERN_CALIFORNIA_EX_SOLAR	caiso_geothermal	NAN	newresolve	geothermal	n/a
_CREZ_GENERIC_NORTHERN_CALIFORNIA_EX_WIND	caiso_solar	NAN	newresolve	utility_pv	n/a
_CREZ_GENERIC_NV_BIOMASS	caiso_biomass	NAN	newresolve	in_state_wind_north	n/a
_CREZ_GENERIC_NV_EXT_TX_WIND	caiso_wind	NAN	newresolve	in_state_wind_north	n/a
_CREZ_GENERIC_NV_SMALL_HYDRO	caiso_small_hydro	NAN	newresolve	small_hydro	n/a
_CREZ_GENERIC_PACIFIC_NORTHWEST_GEO_THERMAL	caiso_geothermal	NAN	newresolve	geothermal	n/a
_CREZ_GENERIC_PACIFIC_NORTHWEST_WIND	caiso_wind	NAN	newresolve	out_of_state_wind_WAOR	n/a
_CREZ_GENERIC_RIVERSIDE_PALM_SPRINGS_GEO_THERMAL	caiso_geothermal	NAN	newresolve	geothermal	n/a
_CREZ_GENERIC_RIVERSIDE_PALM_SPRINGS_SOLAR	caiso_solar	NAN	newresolve	utility_pv	n/a
_CREZ_GENERIC_SACRAMENTO_RIVER_SOLAR	caiso_solar	NAN	newresolve	utility_pv	n/a
_CREZ_GENERIC_SACRAMENTO_RIVER_WIND	caiso_wind	NAN	newresolve	in_state_wind_north	n/a
_CREZ_GENERIC_SCADSNV_SOLAR	caiso_solar	NAN	newresolve	utility_pv	n/a
_CREZ_GENERIC_SCADSNV_WIND	caiso_wind	NAN	newresolve	in_state_wind_south	n/a
_CREZ_GENERIC_SOLANO_GEO_THERMAL	caiso_geothermal	NAN	newresolve	geothermal	n/a
_CREZ_GENERIC_SOLANO_SOLAR	caiso_solar	NAN	newresolve	utility_pv	n/a
_CREZ_GENERIC_SOLANO_SUIRZONE_SOLAR	caiso_solar	NAN	newresolve	utility_pv	n/a
_CREZ_GENERIC_SOLANO_SUIRZONE_WIND	caiso_wind	NAN	newresolve	in_state_wind_north	n/a
_CREZ_GENERIC_SOUTHERN_CA_DESERT_SOUTHERN_NV_SOLAR	caiso_solar	NAN	newresolve	in_state_wind_north	n/a
_CREZ_GENERIC_SOUTHERN_CA_DESERT_SOUTHERN_NV_WIND	caiso_wind	NAN	newresolve	in_state_wind_north	n/a
_CREZ_GENERIC_SOUTHERN_CALIFORNIA_DESERT_EX_SOLAR	caiso_solar	NAN	newresolve	utility_pv	n/a
_CREZ_GENERIC_SOUTHERN_CALIFORNIA_DESERT_EX_WIND	caiso_wind	NAN	newresolve	in_state_wind_south	n/a
_CREZ_GENERIC_SOUTHERN_NEVADA_GEO_THERMAL	caiso_geothermal	NAN	newresolve	geothermal	n/a
_CREZ_GENERIC_SOUTHERN_NEVADA_SOLAR	caiso_solar	NAN	newresolve	utility_pv	n/a
_CREZ_GENERIC_SOUTHERN_NEVADA_WIND	caiso_wind	NAN	newresolve	in_state_wind_south	n/a
_CREZ_GENERIC_SW_BIOMASS	caiso_biomass	NAN	newresolve	biomass_wood	n/a
_CREZ_GENERIC_SW_EXT_TX_WIND	caiso_wind	NAN	newresolve	out_of_state_wind_A2NM	n/a
_CREZ_GENERIC_TEHACHAPI_EX_SOLAR	caiso_solar	NAN	newresolve	utility_pv	n/a
_CREZ_GENERIC_TEHACHAPI_SOLAR	caiso_solar	NAN	newresolve	utility_pv	n/a
_CREZ_GENERIC_TEHACHAPI_WIND	caiso_wind	NAN	newresolve	in_state_wind_south	n/a
_CREZ_GENERIC_UTAH_SOLAR	caiso_solar	NAN	newresolve	utility_pv	n/a
_CREZ_GENERIC_UTAH_WIND	caiso_wind	NAN	newresolve	out_of_state_wind_A2NM	n/a
_CREZ_GENERIC_WESTLANDS_EX_SOLAR	caiso_solar	NAN	newresolve	utility_pv	n/a
_CREZ_GENERIC_WESTLANDS_EX_WIND	caiso_wind	NAN	newresolve	in_state_wind_north	n/a
_CREZ_GENERIC_WESTLANDS_SOLAR	caiso_solar	NAN	newresolve	utility_pv	n/a
_CREZ_GENERIC_WYOMING_WIND	caiso_wind	NAN	newresolve	out_of_state_wind_WYID	n/a
_CREZ_UNBUNDLEDREC_ARIZONA_SOLAR	caiso_solar	NAN	unbundledrec	n/a	n/a
_CREZ_UNBUNDLEDREC_ARIZONA_WIND	caiso_wind	NAN	unbundledrec	n/a	n/a
_CREZ_UNBUNDLEDREC_BAIA_CALIFORNIA_SOLAR	caiso_solar	NAN	unbundledrec	n/a	n/a
_CREZ_UNBUNDLEDREC_BAIA_CALIFORNIA_WIND	caiso_wind	NAN	unbundledrec	n/a	n/a
_CREZ_UNBUNDLEDREC_CAPE_MENDOCONO_OFFSHORE_WIND	caiso_wind	NAN	unbundledrec	n/a	n/a
_CREZ_UNBUNDLEDREC_CARRIZO_SOLAR	caiso_solar	NAN	unbundledrec	n/a	n/a
_CREZ_UNBUNDLEDREC_CARRIZO_WIND	caiso_wind	NAN	unbundledrec	n/a	n/a

_CREZ_UNBUNDLEDREC_CENTRAL_VALLEY_NORTH_LOS_BANDO_NAN	caiso_solar	NAN	unbundledrec	n/a
_CREZ_UNBUNDLEDREC_CENTRAL_VALLEY_NORTH_LOS_BANDO_NAN	caiso_wind	NAN	unbundledrec	n/a
_CREZ_UNBUNDLEDREC_DEL_NORTE_OFFSHORE_WIND	caiso_wind	NAN	unbundledrec	n/a
_CREZ_UNBUNDLEDREC_DIABLO_CANYON_EXT_TX_OFFSHORE_NAN	caiso_wind	NAN	unbundledrec	n/a
_CREZ_UNBUNDLEDREC_DIABLO_CANYON_OFFSHORE_WIND	caiso_solar	NAN	unbundledrec	n/a
_CREZ_UNBUNDLEDREC_DISTRIBUTED_SOLAR	caiso_wind	NAN	unbundledrec	n/a
_CREZ_UNBUNDLEDREC_DISTRIBUTED_WIND	caiso_solar	NAN	unbundledrec	n/a
_CREZ_UNBUNDLEDREC_GREATER_IMPERIAL_GEO_THERMAL	caiso_solar	NAN	unbundledrec	n/a
_CREZ_UNBUNDLEDREC_GREATER_IMPERIAL_SOLAR	caiso_solar	NAN	unbundledrec	n/a
_CREZ_UNBUNDLEDREC_GREATER_IMPERIAL_WIND	caiso_wind	NAN	unbundledrec	n/a
_CREZ_UNBUNDLEDREC_GREATER_KRAMER_SOLAR	caiso_solar	NAN	unbundledrec	n/a
_CREZ_UNBUNDLEDREC_GREATER_KRAMER_WIND	caiso_wind	NAN	unbundledrec	n/a
_CREZ_UNBUNDLEDREC_HUMBOLDT_BAY_OFFSHORE_WIND	caiso_wind	NAN	unbundledrec	n/a
_CREZ_UNBUNDLEDREC_HUMBOLDT_WIND	caiso_solar	NAN	unbundledrec	n/a
_CREZ_UNBUNDLEDREC_IDAHO_WIND	caiso_wind	NAN	unbundledrec	n/a
_CREZ_UNBUNDLEDREC_INSTATE_BIOMASS	caiso_biomass	NAN	unbundledrec	n/a
_CREZ_UNBUNDLEDREC_INVOKERN_NORTH_KRAMER_GEO_THERMAL	caiso_solar	NAN	unbundledrec	n/a
_CREZ_UNBUNDLEDREC_INVOKERN_NORTH_KRAMER_SOLAR	caiso_solar	NAN	unbundledrec	n/a
_CREZ_UNBUNDLEDREC_KERN_GREATER_CARRIZO_SOLAR	caiso_solar	NAN	unbundledrec	n/a
_CREZ_UNBUNDLEDREC_KERN_GREATER_CARRIZO_WIND	caiso_wind	NAN	unbundledrec	n/a
_CREZ_UNBUNDLEDREC_KRAMER_INVOKERN_EX_SOLAR	caiso_solar	NAN	unbundledrec	n/a
_CREZ_UNBUNDLEDREC_KRAMER_INVOKERN_EX_WIND	caiso_wind	NAN	unbundledrec	n/a
_CREZ_UNBUNDLEDREC_MORRO_BAY_OFFSHORE_WIND	caiso_solar	NAN	unbundledrec	n/a
_CREZ_UNBUNDLEDREC_MOUNTAIN_PASS_EL_DORADO_SOLAR_NAN	caiso_solar	NAN	unbundledrec	n/a
_CREZ_UNBUNDLEDREC_NEW_MEXICO_SOLAR	caiso_solar	NAN	unbundledrec	n/a
_CREZ_UNBUNDLEDREC_NEW_MEXICO_WIND	caiso_wind	NAN	unbundledrec	n/a
_CREZ_UNBUNDLEDREC_NORTH_VICTOR_SOLAR	caiso_solar	NAN	unbundledrec	n/a
_CREZ_UNBUNDLEDREC_NORTHERN_CALIFORNIA_EX_GEO_THERMAL	caiso_solar	NAN	unbundledrec	n/a
_CREZ_UNBUNDLEDREC_NORTHERN_CALIFORNIA_EX_SOLAR	caiso_solar	NAN	unbundledrec	n/a
_CREZ_UNBUNDLEDREC_NORTHERN_CALIFORNIA_EX_WIND	caiso_solar	NAN	unbundledrec	n/a
_CREZ_UNBUNDLEDREC_NW_BIOMASS	caiso_biomass	NAN	unbundledrec	n/a
_CREZ_UNBUNDLEDREC_NW_EXT_TX_WIND	caiso_wind	NAN	unbundledrec	n/a
_CREZ_UNBUNDLEDREC_NW_SMALL_HYDRO	caiso_small_hydro	NAN	unbundledrec	n/a
_CREZ_UNBUNDLEDREC_PACIFIC_NORTHWEST_GEO_THERMAL	caiso_solar	NAN	unbundledrec	n/a
_CREZ_UNBUNDLEDREC_PACIFIC_NORTHWEST_WIND	caiso_wind	NAN	unbundledrec	n/a
_CREZ_UNBUNDLEDREC_RIVERSIDE_PALM_SPRINGS_GEO_THERMAL	caiso_solar	NAN	unbundledrec	n/a
_CREZ_UNBUNDLEDREC_RIVERSIDE_PALM_SPRINGS_SOLAR	caiso_solar	NAN	unbundledrec	n/a
_CREZ_UNBUNDLEDREC_SACRAMENTO_RIVER_SOLAR	caiso_solar	NAN	unbundledrec	n/a
_CREZ_UNBUNDLEDREC_SACRAMENTO_RIVER_WIND	caiso_wind	NAN	unbundledrec	n/a
_CREZ_UNBUNDLEDREC_SCAGSNV_SOLAR	caiso_solar	NAN	unbundledrec	n/a
_CREZ_UNBUNDLEDREC_SCAGSNV_WIND	caiso_solar	NAN	unbundledrec	n/a
_CREZ_UNBUNDLEDREC_SOLANO_GEO_THERMAL	caiso_solar	NAN	unbundledrec	n/a
_CREZ_UNBUNDLEDREC_SOLANO_SOLAR	caiso_solar	NAN	unbundledrec	n/a
_CREZ_UNBUNDLEDREC_SOLANO_SUBZONE_SOLAR	caiso_solar	NAN	unbundledrec	n/a
_CREZ_UNBUNDLEDREC_SOLANO_SUBZONE_WIND	caiso_solar	NAN	unbundledrec	n/a
_CREZ_UNBUNDLEDREC_SOLANO_WIND	caiso_wind	NAN	unbundledrec	n/a
_CREZ_UNBUNDLEDREC_SOUTHERN_CA_DESERT_SOUTHERN_J_NAN	caiso_solar	NAN	unbundledrec	n/a
_CREZ_UNBUNDLEDREC_SOUTHERN_CA_DESERT_SOUTHERN_J_NAN	caiso_solar	NAN	unbundledrec	n/a
_CREZ_UNBUNDLEDREC_SOUTHERN_CALIFORNIA_DESERT_EX_NAN	caiso_solar	NAN	unbundledrec	n/a
_CREZ_UNBUNDLEDREC_SOUTHERN_CALIFORNIA_DESERT_EX_NAN	caiso_solar	NAN	unbundledrec	n/a
_CREZ_UNBUNDLEDREC_SOUTHERN_NEVADA_GEO_THERMAL	caiso_solar	NAN	unbundledrec	n/a
_CREZ_UNBUNDLEDREC_SOUTHERN_NEVADA_SOLAR	caiso_solar	NAN	unbundledrec	n/a
_CREZ_UNBUNDLEDREC_SOUTHERN_NEVADA_WIND	caiso_solar	NAN	unbundledrec	n/a
_CREZ_UNBUNDLEDREC_SW_BIOMASS	caiso_biomass	NAN	unbundledrec	n/a
_CREZ_UNBUNDLEDREC_SW_EXT_TX_WIND	caiso_wind	NAN	unbundledrec	n/a
_CREZ_UNBUNDLEDREC_TEHACHAPI_EX_SOLAR	caiso_solar	NAN	unbundledrec	n/a
_CREZ_UNBUNDLEDREC_TEHACHAPI_SOLAR	caiso_solar	NAN	unbundledrec	n/a
_CREZ_UNBUNDLEDREC_TEHACHAPI_WIND	caiso_wind	NAN	unbundledrec	n/a
_CREZ_UNBUNDLEDREC_UTAH_SOLAR	caiso_solar	NAN	unbundledrec	n/a
_CREZ_UNBUNDLEDREC_UTAH_WIND	caiso_solar	NAN	unbundledrec	n/a
_CREZ_UNBUNDLEDREC_WESTLANDS_EX_SOLAR	caiso_solar	NAN	unbundledrec	n/a
_CREZ_UNBUNDLEDREC_WESTLANDS_EX_WIND	caiso_solar	NAN	unbundledrec	n/a
_CREZ_UNBUNDLEDREC_WESTLANDS_SOLAR	caiso_solar	NAN	unbundledrec	n/a
_CREZ_UNBUNDLEDREC_WYOMING_WIND	caiso_solar	NAN	unbundledrec	n/a
_EXISTING_GENERIC_BATTERY_STORAGE	caiso_li_battery	NAN	existinggeneric	hr_batteries
_EXISTING_GENERIC_BIOMASS_LANDFILLGAS	caiso_biomass	NAN	existinggeneric	biomass_wood
_EXISTING_GENERIC_BIOMASS_WOOD	caiso_biomass	NAN	existinggeneric	biomass_wood
_EXISTING_GENERIC_COAL	caiso_coal	NAN	existinggeneric	coal
_EXISTING_GENERIC_COGEN	caiso_chp	NAN	existinggeneric	cogen
_EXISTING_GENERIC_COMBINED_CYCLE	caiso_ccgt1	NAN	existinggeneric	gas_cc
_EXISTING_GENERIC_DR	caiso_loadmod	NAN	existinggeneric	demand_response
_EXISTING_GENERIC_GEO_THERMAL	caiso_geothermal	NAN	existinggeneric	geothermal
_EXISTING_GENERIC_ICE	caiso_reciprocating_engine	NAN	existinggeneric	ice
_EXISTING_GENERIC_INSTATE_LARGE_HYDRO	caiso_hydro	NAN	existinggeneric	hydro
_EXISTING_GENERIC_INSTATE_SMALL_HYDRO	caiso_hydro	NAN	existinggeneric	hydro
_EXISTING_GENERIC_NUCLEAR	caiso_nuclear	NAN	existinggeneric	nuclear
_EXISTING_GENERIC_NW_HYDRO	caiso_hydro	NAN	existinggeneric	hydro
_EXISTING_GENERIC_PEAKER	caiso_peak1	NAN	existinggeneric	gas_ct
_EXISTING_GENERIC_PUMPED_STORAGE_HYDRO	caiso_pumped_hydro	NAN	existinggeneric	pumped_storage
_EXISTING_GENERIC_SOLAR_1XIS	caiso_solar	NAN	existinggeneric	utility_pv
_EXISTING_GENERIC_SOLAR_2XIS	caiso_solar	NAN	existinggeneric	utility_pv
_EXISTING_GENERIC_SOLAR_FIXED	caiso_solar	NAN	existinggeneric	utility_pv
_EXISTING_GENERIC_SOLAR_THERMAL	caiso_solar	NAN	existinggeneric	utility_pv
_EXISTING_GENERIC_STEAM	caiso_st	NAN	existinggeneric	steam
_EXISTING_GENERIC_UNKNOWN	caiso_unknown	NAN	existinggeneric	n/a
_EXISTING_GENERIC_WIND	caiso_wind	NAN	existinggeneric	in_state_wind_south
_NEW_BT_M_DR	caiso_loadmod	NAN	newloadmod	demand_response
_NEW_BT_M_EE	caiso_loadmod	NAN	newloadmod	demand_response
_NEW_BT_M_RESOURCE	caiso_loadmod	NAN	newloadmod	demand_response
_NEW_DG	caiso_loadmod	NAN	newloadmod	btm_pv
_NEW_EV	caiso_loadmod	NAN	newloadmod	demand_response
_NEW_GENERIC_BATTERY_STORAGE	caiso_li_battery	NAN	newgeneric	hr_batteries
_NEW_GENERIC_BIOMASS_LANDFILLGAS	caiso_biomass	NAN	newgeneric	biomass_wood
_NEW_GENERIC_BIOMASS_WOOD	caiso_biomass	NAN	newgeneric	biomass_wood
_NEW_GENERIC_COAL	caiso_coal	NAN	newgeneric	coal
_NEW_GENERIC_COGEN	caiso_chp	NAN	newgeneric	cogen
_NEW_GENERIC_COMBINED_CYCLE	caiso_ccgt1	NAN	newgeneric	gas_cc
_NEW_GENERIC_DR	caiso_loadmod	NAN	newgeneric	demand_response
_NEW_GENERIC_GEO_THERMAL	caiso_geothermal	NAN	newgeneric	geothermal
_NEW_GENERIC_ICE	caiso_reciprocating_engine	NAN	newgeneric	ice
_NEW_GENERIC_INSTATE_LARGE_HYDRO	caiso_hydro	NAN	newgeneric	hydro
_NEW_GENERIC_INSTATE_SMALL_HYDRO	caiso_hydro	NAN	newgeneric	hydro
_NEW_GENERIC_NUCLEAR	caiso_nuclear	NAN	newgeneric	nuclear
_NEW_GENERIC_NW_HYDRO	caiso_hydro	NAN	newgeneric	hydro
_NEW_GENERIC_PEAKER	caiso_peak1	NAN	newgeneric	gas_ct
_NEW_GENERIC_PUMPED_STORAGE_HYDRO	caiso_pumped_hydro	NAN	newgeneric	pumped_storage
_NEW_GENERIC_SOLAR_1XIS	caiso_solar	NAN	newgeneric	utility_pv
_NEW_GENERIC_SOLAR_2XIS	caiso_solar	NAN	newgeneric	utility_pv
_NEW_GENERIC_SOLAR_FIXED	caiso_solar	NAN	newgeneric	utility_pv
_NEW_GENERIC_SOLAR_THERMAL	caiso_solar	NAN	newgeneric	utility_pv
_NEW_GENERIC_STEAM	caiso_st	NAN	newgeneric	steam
_NEW_GENERIC_UNKNOWN	caiso_unknown	NAN	newgeneric	n/a
_NEW_GENERIC_WIND	caiso_wind	NAN	newgeneric	in_state_wind_south
_NEW_TOU	caiso_loadmod	NAN	newloadmod	demand_response
_SUPPLIERS_CHOICE	suppliers_choice	NAN	supplierschoice	n/a
_UNSPECIFIED_NON_IMPORT	unspecified_non_import	NAN	unspecifiednonimport	n/a

Ise	NAME	Ise_type
_OTHER	Multiple non-IOU LSEs	
_OTHER	Multiple LSEs	
_OTHER	Multiple IOUs	
_OTHER	non-LSE supplier	_OTHER
3PR	3 Phases Renewables	ESP
AGERA	Agera Energy,, LLC	ESP
ANHM	Anaheim	CAISOPOU
ANZA	Anza Electric Cooperative	COOP
APN	American PowerNet Management	ESP
AVCE	Apple Valley Choice Energy	CCA
AZCO	Arizona Electric Power Cooperative	POU
AZUA	Azusa	CAISOPOU
BAN1	Banning	CAISOPOU
BCE	Butte Choice Energy	CCA
BVES	Bear Valley Electric Service	IOU
BWPM	Burbank	POU
CCCE	Monterey Bay Community Power Authority	CCA
CCSF	City and County San Francisco	CAISOPOU
CEA	Clean Energy Alliance	CCA
CEI	Just Energy Solutions	ESP
CES	Commercial Energy of Montana	ESP
CLTN	Colton	CAISOPOU
CNE	Constellation New Energy	ESP
COBP	City of Baldwin Park	CCA
COM	City of Commerce	CCA
COR1	Corona	CAISOPOU
COSB	City of Solana Beach	CCA
CPA	Calpine Power America	ESP
CPASC	Clean Power Alliance of Southern California	CCA
CPSF	CleanPowerSF	CCA
CRCL	Cerritos	CAISOPOU
DCE	Desert Community Energy	CCA
DEB	Direct Energy Business	ESP
EBCE	East Bay Community Energy	CCA
EIPS	EDF Industrial Power Services	ESP
GEXA	Gexa Energy California,, LLC	ESP
GLEN	Glendale	POU
HANFORD	City of Hanford	CCA
IIDE	Imperial Irrigation District	POU
INDU	Industry	CAISOPOU
KCCP	King City Community Power	CCA
KIRK	Kirkwood	POU
LADWP	LADWP	POU
LASS	Lassen	CAISOPOU
LCE	Lancaster Choice Energy	CCA
LIB	Liberty Utilities	IOU
LPD	Liberty Power Delaware,, LLC	ESP
LPH	Liberty Power Holdings	ESP
MCE	Marin Clean Energy	CCA
MEID	Merced	POU
MID	Modesto Irrigation District	POU
MVAL	Moreno Valley	CAISOPOU
NCPA	Northern California Power Agency	CAISOPOU
NEED	Needles	POU
NES	Calpine Energy Solutions	ESP
OCPA	OCPA	CCA
PALMCO	Palmco Power CA	ESP
PALMDALE	City of Palmdale	CCA

PASA	Pasadena	CAISOPOU
PCEA	Peninsula Clean Energy Authority	CCA
PCORP	PacifiCorp	POU
PGE	Pacific Gas & Electric	IOU
PIONEER	Pioneer Community Energy	CCA
PITT	Pittsburg	CAISOPOU
PLUMAS	Plumas Sierra Rural Electric Cooperative	COOP
POMONA	City of Pomona	CCA
PPG	Pilot Power Group	ESP
PRAX	Praxair Plainfield, Inc.	ESP
PRIME	Pico Rivera Innovative Municipal Energy	CCA
PSTN	Stockton	CAISOPOU
PWRPA	Power Water Resources Pooling Authority	CAISOPOU
RCEA	Redwood Coast Energy Authority	CCA
RCMU	Rancho Cucamonga	CAISOPOU
RDG1	Redding	POU
RMEA	Rancho Mirage Energy Authority	CCA
RSVL	Roseville	POU
RVSD	Riverside	CAISOPOU
SBCE	Santa Barbara Clean Energy	CCA
SCE	Southern California Edison	IOU
SCOV	Shelter Cove	CAISOPOU
SDCP	San Diego Community Power	CCA
SDGE	San Diego Gas & Electric	IOU
SENA	Shell Energy North America	ESP
SJCE	San Jose Clean Energy	CCA
SJP	San Jacinto Power	CCA
SLAK	Shasta Lake	POU
SMUD	SMUD	POU
SNCL	Silicon Valley Power	CAISOPOU
SOMA	Sonoma Clean Power Authority	CCA
SURPRISE	Surprise Valley Electrification Corporation	POU
SVCE	Silicon Valley Clean Energy Authority	CCA
TENA	Tenaska Power Services Co.	ESP
TIDM	Turlock Irrigation District	POU
TNG	Tiger Natural Gas	ESP
TRIN	Trinity	CAISOPOU
TRUC	Truckee	POU
UC	University of California	ESP
VCEA	Valley Clean Energy Alliance	CCA
VEA	Valley Electric Association	COOP
VERN	Vernon	CAISOPOU
VMUS	Victorville	CAISOPOU
WCE	Western Community Energy	CCA
WEPA	Eastside Power Authority	CAISOPOU
YEP	Yep Energy	ESP
POUS	Collective Publicly Owned Utilities	

				Capacity (MW)											
Service A Type	LSE	CPU(LSE Name)		2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035
PGE	IOU	PGE	Pacific Gas	2,484	2,671	2,859	3,056	3,257	3,469	3,667	3,883	4,090	4,313	4,526	4,734
PGE	ESP		Pacific Gas	1,044	1,116	1,189	1,264	1,342	1,418	1,491	1,560	1,629	1,692	1,752	1,807
PGE	CCA	3CE	Central Co	421	452	484	518	553	588	623	657	690	722	753	783
PGE	CCA	CPSF	CleanPower	272	293	315	337	361	384	408	432	455	477	499	522
PGE	CCA	EBCE	East Bay C	618	668	719	771	828	883	940	994	1,047	1,098	1,147	1,196
PGE	CCA	KCCP	King City C	3	3	4	4	4	4	5	5	5	5	6	6
PGE	CCA	MCE	Marin Clear	528	564	601	640	683	725	779	819	863	897	933	967
PGE	CCA	PCEA	Peninsula C	317	339	365	394	426	456	487	518	550	579	609	639
PGE	CCA	PIONEER	Pioneer Co	175	188	201	215	230	245	260	275	289	304	318	331
PGE	CCA	RCEA	Redwood C	62	66	71	76	80	85	90	94	98	102	106	109
PGE	CCA	SJCE	San José C	350	377	404	432	462	492	523	553	583	613	642	670
PGE	CCA	SVCEA	Silicon Vall	337	363	388	415	444	473	502	531	559	587	614	641
PGE	CCA	SOMA	Sonoma Cl	204	220	235	252	269	287	305	322	339	357	373	390
PGE	CCA	VCEA	Valley Clea	66	71	77	83	90	96	103	109	116	122	128	134
SCE	IOU	SCE	Southern C	3,046	3,286	3,536	3,798	4,068	4,348	4,639	4,941	5,249	5,564	5,883	6,204
SCE	ESP		Southern C	259	278	297	316	337	358	379	401	425	448	471	495
SCE	CCA	AVCE	Apple Valle	30	33	35	38	40	43	46	49	52	55	58	61
SCE	CCA	COBP	Baldwin Pa	-	-	-	-	-	-	-	-	-	-	-	-
SCE	CCA	3CE	Central Co	32	35	37	39	41	44	46	48	51	54	57	61
SCE	CCA	CPASC	Clean Power	451	486	523	562	602	644	687	732	777	824	871	918
SCE	CCA	DCE	Desert Con	40	43	47	50	53	57	61	64	68	73	77	82
SCE	CCA	PALMDALE	Energy for	36	39	42	45	48	52	55	59	62	66	70	74
SCE	CCA	LCE	Lancaster C	73	79	85	92	98	105	112	119	127	134	142	150
SCE	CCA	OCPA	Orange Co	232	250	269	290	311	333	356	379	404	428	453	479
SCE	CCA	PRIME	Pico Rivera	9	10	10	11	12	13	14	14	15	16	17	18
SCE	CCA	POMONA	Pomona Cr	7	8	8	9	10	10	11	12	13	13	14	15
SCE	CCA	RMEA	Rancho Mir	44	48	51	55	59	63	67	72	76	80	85	89
SCE	CCA	SJP	San Jacinto	23	25	27	29	31	33	36	38	40	42	45	47
SCE	CCA	SBCE	Santa Barb	20	22	23	25	27	29	31	33	35	37	39	41
SCE	CCA	WCE	Western Co	-	-	-	-	-	-	-	-	-	-	-	-
SDGE	IOU	SDGE	San Diego	438	468	500	533	565	599	633	667	701	736	769	802
SDGE	ESP		San Diego	474	507	540	574	608	642	675	707	740	772	803	834
SDGE	CCA	CEA	Clean Ener	179	192	206	220	235	249	264	279	293	308	322	337
SDGE	CCA	OCPA	Orange Co	20	22	23	25	27	28	30	32	33	35	37	38
SDGE	CCA	SDCP	San Diego	955	1,026	1,099	1,175	1,251	1,328	1,407	1,486	1,564	1,641	1,718	1,795
BEAR	SMJ	BEAR	Bear Valley	7	7	8	8	9	10	10	11	12	13	13	14

Reliability Need

	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035
CASO gross peak (MW)	53,330	54,113	54,769	55,494	56,125	56,797	57,454	58,178	58,827	59,511	60,161	60,883
PMN (T)	14%	14%	14%	14%	14%	14%	14%	14%	14%	14%	14%	14%
CASO total reliability need (TRN) (MW)	61,024	61,689	62,437	63,163	63,983	64,749	65,498	66,323	67,063	67,843	68,584	69,315
MIN/TRN ratio	0.80	0.82	0.84	0.80	0.76	0.74	0.72	0.70	0.68	0.67	0.65	0.63
CASO marginal reliability need (MNRN) (MW)	48,838	50,521	52,204	50,323	48,441	47,302	46,064	45,372	45,780	45,188	44,596	44,005
LSE managed peak share (%)												
LSE MNRN (MW)	-	-	-	-	-	-	-	-	-	-	-	-

RTM PV

Capacity (MW)	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035
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ELOC (%)

Resource Type	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035
in_state_wind_south	12%	13%	13%	12%	8%	8%	7%	7%	6%	5%	4%	4%
in_state_wind_north	30%	30%	31%	24%	17%	17%	10%	15%	13%	12%	10%	9%
out_of_state_wind_WYD	43%	39%	36%	37%	39%	31%	24%	25%	26%	27%	29%	30%
out_of_state_wind_WAOR	20%	24%	22%	23%	24%	19%	14%	15%	16%	17%	18%	18%
out_of_state_wind_AZNM	38%	35%	32%	34%	35%	28%	21%	22%	24%	25%	26%	27%
offshore_wind	10%	11%	44%	49%	51%	47%	43%	40%	38%	36%	34%	32%
utility_pv	10%	10%	11%	10%	9%	8%	8%	6%	6%	6%	6%	6%
bin_pv	9%	9%	10%	8%	7%	6%	5%	5%	5%	5%	5%	4%
4hr_batteries	89%	90%	92%	85%	77%	70%	70%	68%	61%	54%	47%	40%
5hr_batteries	89%	90%	92%	86%	80%	78%	77%	71%	65%	59%	53%	47%
6hr_batteries	89%	91%	92%	87%	82%	81%	80%	79%	70%	60%	50%	43%
7hr_batteries	89%	91%	93%	89%	84%	83%	82%	78%	74%	70%	66%	62%
8hr_batteries	89%	91%	93%	90%	87%	86%	83%	82%	79%	76%	73%	70%
pumped_storage	89%	91%	93%	91%	89%	89%	89%	90%	90%	91%	92%	93%
demand_response	89%	91%	92%	77%	62%	61%	59%	50%	41%	32%	23%	14%
hydro	27%	26%	26%	23%	20%	19%	18%	17%	16%	15%	14%	13%
small_hydro	41%	40%	38%	38%	36%	35%	35%	34%	33%	32%	32%	31%
geothermal	86%	88%	89%	91%	93%	92%	92%	93%	93%	94%	95%	95%
biomass_wood	79%	81%	83%	83%	82%	82%	82%	83%	85%	86%	88%	89%
biogas	76%	78%	80%	80%	79%	78%	77%	79%	81%	83%	85%	87%
nuclear	93%	94%	95%	94%	94%	94%	93%	94%	95%	95%	96%	96%
gas_cc	85%	86%	88%	87%	87%	86%	85%	86%	88%	89%	90%	91%
gas_ct	80%	82%	83%	83%	82%	81%	79%	80%	81%	82%	83%	84%
cogen	92%	92%	95%	92%	89%	89%	89%	90%	90%	91%	92%	93%
ica	93%	90%	87%	90%	92%	92%	91%	90%	89%	88%	87%	86%
coal	69%	72%	74%	74%	73%	71%	69%	72%	74%	77%	80%	83%
steam	78%	80%	82%	81%	81%	79%	78%	80%	82%	84%	86%	88%
unspecified_import	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%

Contract ELOC (Effective MW)

Resource Type	Contract Status	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035
hybrid	Online	-	-	-	-	-	-	-	-	-	-	-	-
in_state_wind_south	Online	-	-	-	-	-	-	-	-	-	-	-	-
in_state_wind_north	Online	-	-	-	-	-	-	-	-	-	-	-	-
out_of_state_wind_WYD	Online	-	-	-	-	-	-	-	-	-	-	-	-
out_of_state_wind_WAOR	Online	-	-	-	-	-	-	-	-	-	-	-	-
out_of_state_wind_AZNM	Online	-	-	-	-	-	-	-	-	-	-	-	-
offshore_wind	Online	-	-	-	-	-	-	-	-	-	-	-	-
utility_pv	Online	-	-	-	-	-	-	-	-	-	-	-	-
bin_pv	Online	-	-	-	-	-	-	-	-	-	-	-	-
4hr_batteries	Online	-	-	-	-	-	-	-	-	-	-	-	-
5hr_batteries	Online	-	-	-	-	-	-	-	-	-	-	-	-
6hr_batteries	Online	-	-	-	-	-	-	-	-	-	-	-	-
7hr_batteries	Online	-	-	-	-	-	-	-	-	-	-	-	-
8hr_batteries	Online	-	-	-	-	-	-	-	-	-	-	-	-
pumped_storage	Online	-	-	-	-	-	-	-	-	-	-	-	-
demand_response	Online	-	-	-	-	-	-	-	-	-	-	-	-
hydro	Online	-	-	-	-	-	-	-	-	-	-	-	-
small_hydro	Online	-	-	-	-	-	-	-	-	-	-	-	-
geothermal	Online	-	-	-	-	-	-	-	-	-	-	-	-
biomass_wood	Online	-	-	-	-	-	-	-	-	-	-	-	-
biogas	Online	-	-	-	-	-	-	-	-	-	-	-	-
nuclear	Online	-	-	-	-	-	-	-	-	-	-	-	-
gas_cc	Online	-	-	-	-	-	-	-	-	-	-	-	-
gas_ct	Online	-	-	-	-	-	-	-	-	-	-	-	-
cogen	Online	-	-	-	-	-	-	-	-	-	-	-	-
ica	Online	-	-	-	-	-	-	-	-	-	-	-	-
coal	Online	-	-	-	-	-	-	-	-	-	-	-	-
steam	Online	-	-	-	-	-	-	-	-	-	-	-	-
unspecified_import	Online	-	-	-	-	-	-	-	-	-	-	-	-
hybrid	Development	-	-	-	-	-	-	-	-	-	-	-	-
in_state_wind_south	Development	-	-	-	-	-	-	-	-	-	-	-	-
in_state_wind_north	Development	-	-	-	-	-	-	-	-	-	-	-	-
out_of_state_wind_WYD	Development	-	-	-	-	-	-	-	-	-	-	-	-
out_of_state_wind_WAOR	Development	-	-	-	-	-	-	-	-	-	-	-	-
out_of_state_wind_AZNM	Development	-	-	-	-	-	-	-	-	-	-	-	-
offshore_wind	Development	-	-	-	-	-	-	-	-	-	-	-	-
utility_pv	Development	-	-	-	-	-	-	-	-	-	-	-	-
bin_pv	Development	-	-	-	-	-	-	-	-	-	-	-	-
4hr_batteries	Development	-	-	-	-	-	-	-	-	-	-	-	-
5hr_batteries	Development	-	-	-	-	-	-	-	-	-	-	-	-
6hr_batteries	Development	-	-	-	-	-	-	-	-	-	-	-	-
7hr_batteries	Development	-	-	-	-	-	-	-	-	-	-	-	-
8hr_batteries	Development	-	-	-	-	-	-	-	-	-	-	-	-
pumped_storage	Development	-	-	-	-	-	-	-	-	-	-	-	-
demand_response	Development	-	-	-	-	-	-	-	-	-	-	-	-
hydro	Development	-	-	-	-	-	-	-	-	-	-	-	-
small_hydro	Development	-	-	-	-	-	-	-	-	-	-	-	-
geothermal	Development	-	-	-	-	-	-	-	-	-	-	-	-
biomass_wood	Development	-	-	-	-	-	-	-	-	-	-	-	-
biogas	Development	-	-	-	-	-	-	-	-	-	-	-	-
nuclear	Development	-	-	-	-	-	-	-	-	-	-	-	-
gas_cc	Development	-	-	-	-	-	-	-	-	-	-	-	-
gas_ct	Development	-	-	-	-	-	-	-	-	-	-	-	-
cogen	Development	-	-	-	-	-	-	-	-	-	-	-	-
ica	Development	-	-	-	-	-	-	-	-	-	-	-	-
coal	Development	-	-	-	-	-	-	-	-	-	-	-	-
steam	Development	-	-	-	-	-	-	-	-	-	-	-	-
unspecified_import	Development	-	-	-	-	-	-	-	-	-	-	-	-
hybrid	Review	-	-	-	-	-	-	-	-	-	-	-	-
in_state_wind_south	Review	-	-	-	-	-	-	-	-	-	-	-	-
in_state_wind_north	Review	-	-	-	-	-	-	-	-	-	-	-	-
out_of_state_wind_WYD	Review	-	-	-	-	-	-	-	-	-	-	-	-
out_of_state_wind_WAOR	Review	-	-	-	-	-	-	-	-	-	-	-	-
out_of_state_wind_AZNM	Review	-	-	-	-	-	-	-	-	-	-	-	-
offshore_wind	Review	-	-	-	-	-	-	-	-	-	-	-	-
utility_pv	Review	-	-	-	-	-	-	-	-	-	-	-	-
bin_pv	Review	-	-	-	-	-	-	-	-	-	-	-	-
4hr_batteries	Review	-	-	-	-	-	-	-	-	-	-	-	-
5hr_batteries	Review	-	-	-	-	-	-	-	-	-	-	-	-
6hr_batteries	Review	-	-	-	-	-	-	-	-	-	-	-	-
7hr_batteries	Review	-	-	-	-	-	-	-	-	-	-	-	-
8hr_batteries	Review	-	-	-	-	-	-	-	-	-	-	-	-
pumped_storage	Review	-	-	-	-	-	-	-	-	-	-	-	-
demand_response	Review	-	-	-	-	-	-	-	-	-	-	-	-
hydro	Review	-	-	-	-	-	-	-	-	-	-	-	-
small_hydro	Review	-	-	-	-	-	-	-	-	-	-	-	-
geothermal	Review	-	-	-	-	-	-	-	-	-	-	-	-
biomass_wood	Review	-	-	-	-	-	-	-	-	-	-	-	-
biogas	Review	-	-	-	-	-	-	-	-	-	-	-	-
nuclear	Review	-	-	-	-	-	-	-	-	-	-	-	-
gas_cc	Review	-	-	-	-	-	-	-	-	-	-	-	-
gas_ct	Review	-	-	-	-	-	-	-	-	-	-	-	-
cogen	Review	-	-	-	-	-	-	-	-	-	-	-	-
ica	Review	-	-	-	-	-	-	-	-	-	-	-	-
coal	Review	-	-	-	-	-	-	-	-	-	-	-	-
steam	Review	-	-	-	-	-	-	-	-	-	-	-	-
unspecified_import	Review	-	-	-	-	-	-	-	-	-	-	-	-
hybrid	PlannedExisting	-	-	-	-	-	-	-	-	-	-	-	-
in_state_wind_south	PlannedExisting	-	-	-	-	-	-	-	-	-	-	-	-
in_state_wind_north	PlannedExisting	-	-	-	-	-	-	-	-	-	-	-	-
out_of_state_wind_WYD	PlannedExisting	-	-	-	-	-	-	-	-	-	-	-	-
out_of_state_wind_WAOR	PlannedExisting	-	-	-	-	-	-	-	-	-	-	-	-
out_of_state_wind_AZNM	PlannedExisting	-	-	-	-	-	-	-	-	-	-	-	-
offshore_wind	PlannedExisting	-	-	-	-	-	-	-	-	-	-	-	-
utility_pv	PlannedExisting	-	-	-	-	-	-	-	-	-	-	-	-
bin_pv	PlannedExisting	-	-	-	-	-	-	-	-	-	-	-	-
4hr_batteries	PlannedExisting	-	-	-	-	-	-	-	-	-	-	-	-
5hr_batteries	PlannedExisting	-	-	-	-	-	-	-	-	-	-	-	-
6hr_batteries	PlannedExisting	-	-	-	-	-	-	-	-	-	-	-	-
7hr_batteries	PlannedExisting	-	-	-	-	-	-	-	-	-	-	-	-
8hr_batteries	PlannedExisting	-	-	-	-	-	-	-	-	-	-	-	-
pumped_storage	PlannedExisting	-	-	-	-	-	-	-	-	-	-	-	-
demand_response	PlannedExisting	-	-	-	-	-	-	-	-	-	-	-	-
hydro	PlannedExisting	-	-	-	-	-	-	-	-	-	-	-	-
small_hydro	PlannedExisting	-	-	-	-	-	-	-	-	-	-	-	-
geothermal	PlannedExisting	-	-	-	-	-	-	-	-	-	-	-	-
biomass_wood	PlannedExisting	-	-	-	-	-	-	-	-	-	-	-	-
biogas	PlannedExisting	-	-	-	-	-	-	-	-	-	-	-	-
nuclear	PlannedExisting	-	-	-	-	-	-	-	-	-	-	-	-
gas_cc	PlannedExisting	-	-	-	-	-	-	-	-	-	-	-	-
gas_ct	PlannedExisting	-	-	-	-	-	-	-	-	-	-	-	-
cogen	PlannedExisting	-	-	-	-	-	-	-	-	-	-	-	-
ica	PlannedExisting	-	-	-	-	-	-	-	-	-	-	-	-
coal	PlannedExisting	-	-	-	-	-	-	-	-	-	-	-	-
steam	PlannedExisting	-	-	-	-	-	-	-	-	-	-	-	-
unspecified_import	PlannedExisting	-	-	-	-	-	-	-	-	-	-	-	-
hybrid	PlannedNew	-	-	-	-	-	-	-	-	-	-	-	-
in_state_wind_south	PlannedNew	-	-	-	-	-	-	-	-	-	-	-	-
in_state_wind_north	PlannedNew	-	-	-	-	-	-	-	-	-	-	-	-
out_of_state_wind_WYD	PlannedNew	-	-	-	-	-	-	-	-	-	-	-	-
out_of_state_wind_WAOR	PlannedNew	-	-	-	-	-	-	-	-	-	-	-	-
out_of_state_wind_AZNM	PlannedNew	-	-	-	-	-	-	-	-	-	-	-	-
offshore_wind	PlannedNew	-	-	-	-	-	-	-	-	-	-	-	-
utility_pv	PlannedNew	-	-	-	-	-	-	-	-	-	-	-	-
bin_pv	PlannedNew	-	-	-	-	-	-	-	-	-	-	-	-
4hr_batteries	PlannedNew	-	-	-	-	-	-	-	-	-	-	-	-
5hr_batteries	PlannedNew	-	-	-	-	-	-	-	-	-	-	-	-
6hr_batteries	PlannedNew	-	-	-	-	-	-	-	-	-	-	-	-
7hr_batteries	PlannedNew	-	-	-	-	-	-	-	-	-	-	-	-
8hr_batteries	PlannedNew	-	-	-	-	-	-	-	-	-	-	-	-
pumped_storage	PlannedNew	-	-	-	-	-	-	-	-	-	-	-	-
demand_response	PlannedNew	-	-	-	-	-	-	-	-	-	-	-	-
hydro	PlannedNew	-	-	-	-	-	-	-	-	-	-	-	-

small_hydro	PlannedNew	-	-	-	-	-	-	-	-	-	-	-	-	-
geothermal	PlannedNew	-	-	-	-	-	-	-	-	-	-	-	-	-
biomass_wood	PlannedNew	-	-	-	-	-	-	-	-	-	-	-	-	-
biogas	PlannedNew	-	-	-	-	-	-	-	-	-	-	-	-	-
nuclear	PlannedNew	-	-	-	-	-	-	-	-	-	-	-	-	-
gas_cc	PlannedNew	-	-	-	-	-	-	-	-	-	-	-	-	-
gas_ct	PlannedNew	-	-	-	-	-	-	-	-	-	-	-	-	-
cogen	PlannedNew	-	-	-	-	-	-	-	-	-	-	-	-	-
ice	PlannedNew	-	-	-	-	-	-	-	-	-	-	-	-	-
coal	PlannedNew	-	-	-	-	-	-	-	-	-	-	-	-	-
steam	PlannedNew	-	-	-	-	-	-	-	-	-	-	-	-	-
unspecified_import	PlannedNew	-	-	-	-	-	-	-	-	-	-	-	-	-
LSE total supply (effective MW)		-	-	-	-	-	-	-	-	-	-	-	-	-

Load and Resource Table by Resource Type

	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035
LSE reliability need (MW)	-	-	-	-	-	-	-	-	-	-	-	-
ELCC by resource type (effective MW)	-	-	-	-	-	-	-	-	-	-	-	-
hybrid	-	-	-	-	-	-	-	-	-	-	-	-
in_state_wind_south	-	-	-	-	-	-	-	-	-	-	-	-
in_state_wind_north	-	-	-	-	-	-	-	-	-	-	-	-
out_of_state_wind_WYD	-	-	-	-	-	-	-	-	-	-	-	-
out_of_state_wind_WAOR	-	-	-	-	-	-	-	-	-	-	-	-
out_of_state_wind_AZNM	-	-	-	-	-	-	-	-	-	-	-	-
offshore_wind	-	-	-	-	-	-	-	-	-	-	-	-
utility_pv	-	-	-	-	-	-	-	-	-	-	-	-
btm_pv	-	-	-	-	-	-	-	-	-	-	-	-
4hr_batteries	-	-	-	-	-	-	-	-	-	-	-	-
5hr_batteries	-	-	-	-	-	-	-	-	-	-	-	-
6hr_batteries	-	-	-	-	-	-	-	-	-	-	-	-
7hr_batteries	-	-	-	-	-	-	-	-	-	-	-	-
8hr_batteries	-	-	-	-	-	-	-	-	-	-	-	-
pumped_storage	-	-	-	-	-	-	-	-	-	-	-	-
demand_response	-	-	-	-	-	-	-	-	-	-	-	-
hydra	-	-	-	-	-	-	-	-	-	-	-	-
small_hydro	-	-	-	-	-	-	-	-	-	-	-	-
geothermal	-	-	-	-	-	-	-	-	-	-	-	-
biomass_wood	-	-	-	-	-	-	-	-	-	-	-	-
biogas	-	-	-	-	-	-	-	-	-	-	-	-
nuclear	-	-	-	-	-	-	-	-	-	-	-	-
gas_cc	-	-	-	-	-	-	-	-	-	-	-	-
gas_ct	-	-	-	-	-	-	-	-	-	-	-	-
cogen	-	-	-	-	-	-	-	-	-	-	-	-
ice	-	-	-	-	-	-	-	-	-	-	-	-
coal	-	-	-	-	-	-	-	-	-	-	-	-
steam	-	-	-	-	-	-	-	-	-	-	-	-
unspecified_import	-	-	-	-	-	-	-	-	-	-	-	-
LSE total supply (effective MW)	-	-	-	-	-	-	-	-	-	-	-	-
Net capacity position (res = excess, ne = shortfall) (effective MW)	-	-	-	-	-	-	-	-	-	-	-	-

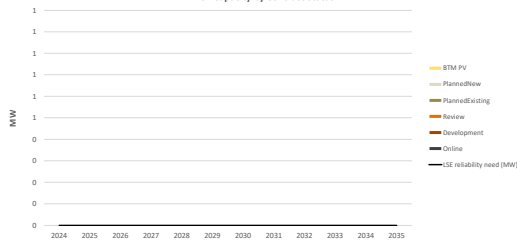
Load and Resource Table by Contract Status

	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035
LSE reliability need (MW)	-	-	-	-	-	-	-	-	-	-	-	-
ELCC by contract status (effective MW)	-	-	-	-	-	-	-	-	-	-	-	-
Online	-	-	-	-	-	-	-	-	-	-	-	-
Development	-	-	-	-	-	-	-	-	-	-	-	-
Review	-	-	-	-	-	-	-	-	-	-	-	-
PlannedExisting	-	-	-	-	-	-	-	-	-	-	-	-
PlannedNew	-	-	-	-	-	-	-	-	-	-	-	-
BTM PV	-	-	-	-	-	-	-	-	-	-	-	-
LSE total supply (effective MW)	-	-	-	-	-	-	-	-	-	-	-	-
Net capacity position (res = excess, ne = shortfall) (effective MW)	-	-	-	-	-	-	-	-	-	-	-	-

LSE Capacity by Resource Type



LSE Capacity by Contract Status



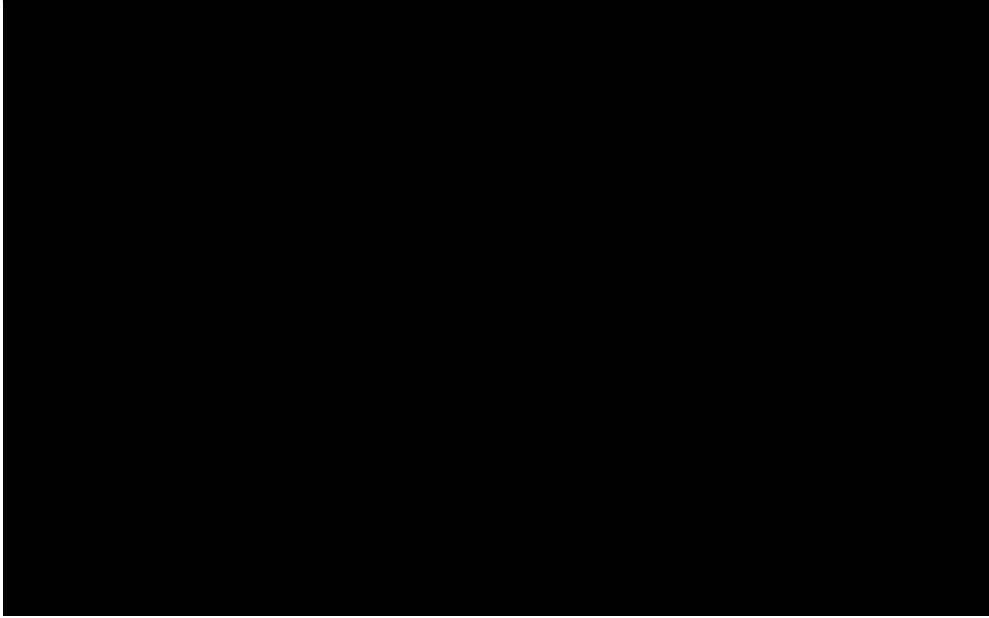
lse_unique_contract_id	lse_selected_mtr_tranche	%_nameplate/tranche_non_hybrid	%_nameplate/tranche_hybrid_gen
CPSF50004			
CPSF50004-BAT			
CPSF50004-BAT			
CPSF50005			
CPSF50005			
4223_CPSF_MSCG			
ESSA_3221			
CPSF70010			
CPSF50006			
CPSF50006			
CPSF50006			
CPSF50006			
ESSA_3942			
FCR_3462			
FCR_3462			
CPSF50003-BAT			
CPSF50003-BAT			
ESSA_3942			

[illegible]

p50 annual mwh post he 17

round trip efficiency

engineering assessment confirmation



contract_in_uc	uc_is_hybrid_paired	hybrid
TRUE	ExistingSolarExistingStorage	TRUE
TRUE	ExistingSolarExistingStorage	TRUE
TRUE	ExistingSolarExistingStorage	TRUE
TRUE	ExistingSolarExistingStorage	TRUE
TRUE	ExistingSolarExistingStorage	TRUE
TRUE	NotHybrid	FALSE
TRUE	NotHybrid	FALSE
TRUE	NotHybrid	FALSE
TRUE	NewSolarNewStorage	TRUE
TRUE	NewSolarNewStorage	TRUE
TRUE	NewSolarNewStorage	TRUE
TRUE	NewSolarNewStorage	TRUE
TRUE	NotHybrid	FALSE
TRUE	NotHybrid	FALSE
TRUE	NotHybrid	FALSE
TRUE	ExistingSolarExistingStorage	TRUE
TRUE	ExistingSolarExistingStorage	TRUE
TRUE	NotHybrid	FALSE
FALSE	0	0
FALSE	0	0
FALSE	0	0

uc_resource_id	resource_lookup	uc_d2106035_procurement_cat
ALMASL_2_GS6SR6	solar	
ALMASL_2_AL6BT6	solar	
ALMASL_2_AL6BT6	solar	
GENERIC_CENTRAL_VALLEY_NORTH_LOS_BANO!	solar	
GENERIC_CENTRAL_VALLEY_NORTH_LOS_BANO!	solar	
_BRANCH_GENERIC_NOB_ITC	#N/A	
TUMBWD_2_WISBT4	storage	
_NEW_GENERIC_WIND	wind	
_NEW_GENERIC_SOLAR_1AXIS	solar	
_NEW_GENERIC_SOLAR_1AXIS	solar	
_NEW_GENERIC_SOLAR_1AXIS	solar	
_NEW_GENERIC_SOLAR_1AXIS	solar	
_NEW_GENERIC_BATTERY_STORAGE	storage	
_NEW_GENERIC_GEOTHERMAL	geothermal	
_NEW_GENERIC_GEOTHERMAL	geothermal	
DRACKR_2_DSUBT4	solar	
DRACKR_2_DSUBT4	solar	
_NEW_GENERIC_BATTERY_STORAGE	storage	
0	0	0
0	0	0
0	0	0

uc_contracted_nameplate_capacity	_contracted_generator_mw	_contracted_storage_mw	_contracted_storage_depth_mw
0	71	0	200
0	0	26.5	200
0	0	9	200
0	20	0	60
0	0	15	60
20	0	0	0
6.4067355	0	0	96.36
129.0035	0	0	0
0	75	0	300
0	0	28.53	300
0	0	38.73	300
0	0	7.74	300
34.155	0	0	300
0.066025	0	0	0
1.970325	0	0	0
0	0	45.59	188
0	0	1.7625	188
40.845	0	0	300
0	0	0	0
0	0	0	0
0	0	0	0

storage_duration_hrs	uc_contract_start_year	uc_contract_start_month	uc_contract_start_date	is_non_grid_charging
#DIV/0!	2021	11	1	FALSE
7.547169811	2021	11	1	FALSE
22.22222222	2021	11	1	FALSE
#DIV/0!	2024	8	1	FALSE
4	2024	8	1	FALSE
#N/A	2024	5	1	FALSE
15.04042113	2026	4	15	FALSE
0	2026	5	31	FALSE
#DIV/0!	2026	12	1	FALSE
10.51524711	2026	12	1	FALSE
7.745933385	2026	12	1	FALSE
38.75968992	2026	12	1	FALSE
8.783487044				FALSE
0				FALSE
0				FALSE
4.12371134	2022	10	1	FALSE
106.6666667	2022	10	1	FALSE
7.34484025				FALSE
0	0	0	0	
0	0	0	0	
0	0	0	0	

is_general	is_firm_ZE	is_long_duration_storage	is_ZE_gen_paired_dr	contract_date
				11/1/2021
				11/1/2021
				11/1/2021
				8/1/2024
				8/1/2024
				5/1/2024
				4/15/2026
				5/31/2026
				12/1/2026
				12/1/2026
				12/1/2026
				12/1/2026
				10/1/2022
				10/1/2022
0%	0%	0%	0%	1/0/1900
0%	0%	0%	0%	1/0/1900
0%	0%	0%	0%	1/0/1900

ssumed_Tranchion_elcc_non_h		decision_elcc_hybrid_gen	decision_elcc_hybrid_storage	valid_contract_start_date
				TRUE
				TRUE
				TRUE
				TRUE
				TRUE
				TRUE
				TRUE
				TRUE
				TRUE
				TRUE
				TRUE
				TRUE
				TRUE
				TRUE
				TRUE
				TRUE
				TRUE
				TRUE
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0

do_tranches_match?	tranche_elcc_match_non_hybrid	tranche_elcc_match_hybrid_gen
0	0	0
0	0	0
0	0	0

tranche_elcc_match_hybrid_storage	storage_duration_matches	mtr_heuristic_check
		TRUE
		TRUE
		TRUE
		TRUE
		TRUE
		#N/A
		TRUE
		TRUE
		TRUE
		TRUE
		TRUE
		TRUE
		TRUE
		TRUE
		TRUE
		TRUE
		TRUE
		TRUE
		TRUE
0		TRUE
0		TRUE
0		TRUE

elcc_non_hybrid_resource	elcc_hybrid_gen_resource	elcc_hybrid_storage_resource
0	solar	storage
0	solar	storage
0	solar	storage
0	solar	storage
0	solar	storage
wind	0	0
storage	0	0
wind	0	0
0	solar	storage
0	solar	storage
0	solar	storage
0	solar	storage
storage	0	0
geothermal	0	0
geothermal	0	0
0	solar	storage
0	solar	storage
storage	0	0
0	0	0
0	0	0
0	0	0

match_resource_type_non_f	match_resource_type_hybrid	elcc_value_nonhybrid	elcc_value_hybrid_gen
0	TRUE		
0	TRUE		
0	TRUE		
0	TRUE		
0	TRUE		
#N/A	0		
TRUE	0		
TRUE	0		
0	TRUE		
0	TRUE		
0	TRUE		
0	TRUE		
TRUE	0		
TRUE	0		
TRUE	0		
0	TRUE		
0	TRUE		
TRUE	0		
0	0	0.00%	0.00%
0	0	0.00%	0.00%
0	0	0.00%	0.00%

[illegible]

[illegible]

dcr_required_energy_battery	dcr_round_trip_efficiency_loss	dcr_energy_requirement
-	-	-
-	-	-
-	-	-

dcr_net_energy_available	dcr_noncharging_hybrid_flag	dcr_nqc_from_gen	dcr_battery_nqc
-	0	-	-
-	0	-	-
-	0	-	-

dcr_total_nqc	dcr_eligibility_test
-	-
-	-
-	-

		tranche_1 2023	tranche_2 2024
LSE:	CPSF	Obligation	
	CCA	31	93
Summary of unique_contracts	Total NQC reported (non-LLT and non-DCR)		
	Total NQC reported (LLT)		
	Total NQC Entered		
	Total NQC vs Obligation		
Summary of mtr_NQC_validation_tool	Calculated NQC (general including DCR)		
	Calculated vs Total Reported NQC		
	Calculated NQC vs Obligation		
Summary with Pending D.23-02-040 Compliance trades	Enter value here		
	Total NQC vs Proposed Obligation		
	Calculated NQC vs Proposed Obligation		
Summary of DCR NQC	Calculated DCR NQC		
	Total Reported DCR NQC		
DCR portfolio net energy		#N/A	

contracts (if needed, use F9 key to refresh list of contracts)	MTR Procurement Category	contracted nameplate capacity MW	contracted generator MW	contracted storage MW
FCR_3462		17.375	0	0
ESSA_3942		75	0	0
ESSA_3221		12.045	0	0
CPSF70010		147.5	0	0
CPSF50006		150	75	75
CPSF50005		35	20	15
CPSF50004-BAT		50	100	50
CPSF50004		100	100	50
CPSF50003-BAT		47	62.5	47
4223_CPSF_MSCG		20	0	0

tranche_3 2025	tranche_4 2026	tranche_5 2027	tranche_6 2028	MTR Total All
23	31	31	31	241
				-

		total reported MTR DCR nqc contract total calculated MTR							
hybrid	grid charging	MW (mtr nqc validation tool)	general NQC MW (mtr nqc validation tool)	nqc MW (unique contracts)	total reported MTR general	engineering_assessment confirmation	reported nqc <= NQC tool calculated		
FALSE									
FALSE	YES								
FALSE									
FALSE									
TRUE	YES								
TRUE	YES								
TRUE	YES								
TRUE	YES								
TRUE	Yes								
FALSE									

[illegible]

Resource	2024	2026	2030	2035	Units	Type
Large Hydro	-	-	-	-	GWh	GHG-Free
Imported Hydro	-	-	-	-	GWh	GHG-Free
Asset Controlling Supplier	-	-	-	-	GWh	GHG-Free (Partial)
Nuclear	-	-	-	-	GWh	GHG-Free
Biogas	-	-	-	-	GWh	RPS Eligible
Biomass	-	-	-	-	GWh	RPS Eligible
Geothermal	-	-	-	-	GWh	RPS Eligible
Small Hydro	-	-	-	-	GWh	RPS Eligible
Wind Resources						
Wind Baseline California	-	-	-	-	GWh	RPS Eligible
Wind New PG&E	-	-	-	-	GWh	RPS Eligible
Wind New SCE SDG&E	-	-	-	-	GWh	RPS Eligible
Wind Pacific Northwest	-	-	-	-	GWh	RPS Eligible
Wind Wyoming	-	-	-	-	GWh	RPS Eligible
Wind New Mexico	-	-	-	-	GWh	RPS Eligible
Wind Offshore Morro Bay	-	-	-	-	GWh	RPS Eligible
Wind Offshore Humboldt	-	-	-	-	GWh	RPS Eligible
Solar Resources						
Solar Baseline California	-	-	-	-	GWh	RPS Eligible
Solar New PG&E	-	-	-	-	GWh	RPS Eligible
Solar New SCE SDG&E	-	-	-	-	GWh	RPS Eligible
Solar Distributed	-	-	-	-	GWh	RPS Eligible
Hybrid						
Hybrid_or_Paired_Solar_and_Battery	-	-	-	-	GWh	RPS Eligible
Storage & DR						
Shed DR	-	-	-	-	MW	GHG-Free
Pumped Storage	-	-	-	-	MW	n/a
Battery Storage	-	-	-	-	MWh Energy Capacity	n/a
User-Specified Profiles						
Storage Resource Custom Profile	-	-	-	-	MW	n/a
RPS Resource Custom Profile	-	-	-	-	GWh	RPS Eligible
GHG-free non-RPS Resource	-	-	-	-	GWh	GHG-Free
Coal						
Coal	-	-	-	-	GWh	n/a

Duplicated Contract IDs:**Entry with non-positive values:****Invalid resource error rows:**

csp_annual_2024 row 2
csp_annual_2024 row 3
csp_annual_2024 row 4
csp_annual_2024 row 5
csp_annual_2024 row 6
csp_annual_2024 row 7
csp_annual_2024 row 8
csp_annual_2024 row 9
csp_annual_2024 row 10
csp_annual_2024 row 11
csp_annual_2024 row 12
csp_annual_2024 row 13
csp_annual_2024 row 14
csp_annual_2024 row 15
csp_annual_2024 row 16
csp_annual_2024 row 17
csp_annual_2026 row 2
csp_annual_2026 row 3
csp_annual_2026 row 4
csp_annual_2026 row 5
csp_annual_2026 row 6
csp_annual_2026 row 7
csp_annual_2026 row 8
csp_annual_2026 row 9
csp_annual_2026 row 10
csp_annual_2026 row 11
csp_annual_2026 row 12
csp_annual_2026 row 13
csp_annual_2026 row 14
csp_annual_2026 row 15
csp_annual_2026 row 16
csp_annual_2026 row 17
csp_annual_2030 row 2
csp_annual_2030 row 3
csp_annual_2030 row 4
csp_annual_2030 row 5
csp_annual_2030 row 6
csp_annual_2030 row 7
csp_annual_2030 row 8
csp_annual_2030 row 9
csp_annual_2030 row 10
csp_annual_2030 row 11
csp_annual_2030 row 12
csp_annual_2030 row 13
csp_annual_2030 row 14
csp_annual_2030 row 15

csp_annual_2030 row 16
csp_annual_2030 row 17
csp_annual_2035 row 2
csp_annual_2035 row 3
csp_annual_2035 row 4
csp_annual_2035 row 5
csp_annual_2035 row 6
csp_annual_2035 row 7
csp_annual_2035 row 8
csp_annual_2035 row 9
csp_annual_2035 row 10
csp_annual_2035 row 11
csp_annual_2035 row 12
csp_annual_2035 row 13
csp_annual_2035 row 14
csp_annual_2035 row 15
csp_annual_2035 row 16
csp_annual_2035 row 17

Rows missing required project viability associated data:

16

Rows missing required hybrid associated data:

Supertype Contract Status Error or Null Rows:

Transaction counterparty error rows: **Rows missing CSP GWh:**

Rows with invalid buying_energy_capacity and csp_resource_category:

Rows missing MTR NQC:

Warning-total capacity is equal to or greater then generator plus storage MWs for rows:

9

15



San Francisco
Water
Power
Sewer

Services of the San Francisco
Public Utilities Commission

The CleanPowerSF logo, featuring a horizontal rainbow-colored arc above the text. "Clean" is in green, "Power" is in yellow, and "SF" is in blue.

CleanPowerSF

Appendix B

Gonzaga Wind Project
Milestone 1 Documentation

(PUBLIC VERSION)

Gonzaga Wind Project

Milestone 1 Documentation

Gonzaga Executed Renewable Power Purchase Agreement

Withheld based on Motion of CleanPowerSF
for Leave to File Under Seal Confidential Information
Filed on June 3, 2024

Gonzaga Wind Project

Milestone 1 Documentation

Gonzaga Large Generator Interconnection Agreement

Redacted based on Motion of CleanPowerSF
for Leave to File Under Seal Confidential Information
Filed on June 3, 2024

LARGE GENERATOR INTERCONNECTION AGREEMENT

APPENDIX EE

**(for Interconnection Requests Processed under the Generator Interconnection
and Deliverability Allocation Procedures (Appendix DD of the CAISO Tariff))**

AMONG

GONZAGA RIDGE WIND FARM, LLC

AND

**PACIFIC GAS AND ELECTRIC COMPANY
AND**

**CALIFORNIA INDEPENDENT SYSTEM OPERATOR
CORPORATION**

**PROJECT: Gonzaga Hybrid
CAISO QUEUE POSITION: 1718**



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APPENDICES

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Appendix G Interconnection Customer's Share of Costs of Network Upgrades for
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LARGE GENERATOR INTERCONNECTION AGREEMENT

GONZAGA RIDGE WIND FARM, LLC

PACIFIC GAS AND ELECTRIC COMPANY

CALIFORNIA INDEPENDENT SYSTEM OPERATOR CORPORATION

THIS LARGE GENERATOR INTERCONNECTION AGREEMENT ("LGIA") is made and entered into this 18th day of November, 2022, by and among **Gonzaga Ridge Wind Farm, LLC**, a limited liability company organized and existing under the laws of the State/Commonwealth of Delaware ("Interconnection Customer" with a Large Generating Facility), **Pacific Gas and Electric Company**, a corporation organized and existing under the laws of the State of California ("**Participating TO**"), and **California Independent System Operator Corporation**, a California nonprofit public benefit corporation organized and existing under the laws of the State of California ("**CAISO**"). Interconnection Customer, Participating TO, and CAISO each may be referred to as a "Party" or collectively as the "Parties."

RECITALS

WHEREAS, CAISO exercises Operational Control over the CAISO Controlled Grid; and

WHEREAS, the Participating TO owns, operates, and maintains the Participating TO's Transmission System; and

WHEREAS, Interconnection Customer intends to own, lease and/or control and operate the Generating Facility identified as a Large Generating Facility in Appendix C to this LGIA; and

WHEREAS, Interconnection Customer, Participating TO, and CAISO have agreed to enter into this LGIA for the purpose of interconnecting the Large Generating Facility with the Participating TO's Transmission System;

NOW, THEREFORE, in consideration of and subject to the mutual covenants contained herein, it is agreed:

When used in this LGIA, terms with initial capitalization that are not defined in Article 1 shall have the meanings specified in the Article in which they are used.

ARTICLE 1. DEFINITIONS

ADNU shall mean Area Delivery Network Upgrade.

Adverse System Impact shall mean the negative effects due to technical or operational limits on conductors or equipment being exceeded that may compromise the safety and reliability of the electric system.

Affected System shall mean an electric system other than the CAISO Controlled Grid that may be affected by the proposed interconnection, including the Participating TO's electric system that is not part of the CAISO Controlled Grid.

Affiliate shall mean, with respect to a corporation, partnership or other entity, each such other corporation, partnership or other entity that directly or indirectly, through one or more intermediaries, controls, is controlled by, or is under common control with, such corporation, partnership or other entity.

Applicable Laws and Regulations shall mean all duly promulgated applicable federal, state and local laws, regulations, rules, ordinances, codes, decrees, judgments, directives, or judicial or administrative orders, permits and other duly authorized actions of any Governmental Authority.

Applicable Reliability Council shall mean the Western Electricity Coordinating Council or its successor.

Applicable Reliability Standards shall mean the requirements and guidelines of NERC, the Applicable Reliability Council, and the Balancing Authority Area of the Participating TO's Transmission System to which the Generating Facility is directly connected, including requirements adopted pursuant to Section 215 of the Federal Power Act.

Area Deliverability Constraint shall mean a previously identified transmission system operating limit, based on a CAISO interconnection study or transmission planning study and listed on the CAISO website, that would constrain the deliverability of a substantial number of generators if the CAISO were to assign full capacity or partial capacity deliverability status to additional generating facilities in one or more specified geographic or electrical areas of the CAISO Controlled Grid in a total amount that is greater than the TP Deliverability for those areas. May also be a transmission system operating limit that constrains all or most of the same generation already constrained by a previously identified Area Deliverability Constraint.

Area Delivery Network Upgrade shall mean a transmission upgrade or addition identified by the CAISO to relieve an Area Deliverability Constraint.

Area Off-Peak Constraints shall mean a transmission system operating limit that would cause excessive curtailment to a substantial number of Generating Facilities during Off-Peak Load conditions, as described in Section 6.3.2.2 of Appendix DD and the CAISO Off-Peak Deliverability Assessment posted on the CAISO Website.



Area Off-Peak Network Upgrades (AOPNUs) shall mean a transmission upgrade or addition the CAISO identifies in the Transmission Planning Process to relieve an Area Off-Peak Constraint.

Assigned Network Upgrade (ANU) shall mean Reliability Network Upgrades, Local Off-Peak Network Upgrades, and Local Delivery Network Upgrades currently assigned to the Interconnection Customer. Assigned Network Upgrades exclude Conditionally Assigned Network Upgrades unless they become Assigned Network Upgrades.

Asynchronous Generating Facility shall mean an induction, doubly-fed, or electronic power generating unit(s) that produces 60 Hz (nominal) alternating current.

Balancing Authority shall mean the responsible entity that integrates resource plans ahead of time, maintains load-interchange-generation balance within a Balancing Authority Area, and supports Interconnection frequency in real time.

Balancing Authority Area shall mean the collection of generation, transmission, and loads within the metered boundaries of the Balancing Authority. The Balancing Authority maintains load-resource balance within this area.

Base Case shall mean the base case power flow, short circuit, and stability databases used for the Interconnection Studies.

Breach shall mean the failure of a Party to perform or observe any material term or condition of this LGIA.

Breaching Party shall mean a Party that is in Breach of this LGIA.

Business Day shall mean Monday through Friday, excluding federal holidays and the day after Thanksgiving Day.

CAISO Controlled Grid shall mean the system of transmission lines and associated facilities of the parties to the Transmission Control Agreement that have been placed under the CAISO's Operational Control.

CAISO Tariff shall mean the CAISO's tariff, as filed with FERC, and as amended or supplemented from time to time, or any successor tariff.

Calendar Day shall mean any day including Saturday, Sunday or a federal holiday.

Commercial Operation shall mean the status of an Electric Generating Unit or project phase at a Generating Facility that has commenced generating electricity for sale, excluding electricity generated during Trial Operation.

Commercial Operation Date of an Electric Generating Unit or project phase shall mean the date on which the Electric Generating Unit or project phase at the Generating Facility commences Commercial Operation as agreed to by the applicable Participating TO, the CAISO, and the Interconnection Customer pursuant to Appendix E to this LGIA, and in accordance with the implementation plan agreed to by the Participating TO and the CAISO for multiple individual Electric Generating Units or project phases at a Generating Facility where an Interconnection Customer intends to establish separate Commercial Operation Dates for those Electric Generating Units or project phases.

Conditionally Assigned Network Upgrade (CANU) shall mean Reliability Network Upgrades, Local Off-Peak Network Upgrades, and Local Delivery Network Upgrades currently assigned to an earlier Interconnection Customer, but which may be assigned to the Interconnection Customer.

Confidential Information shall mean any confidential, proprietary or trade secret information of a plan, specification, pattern, procedure, design, device, list, concept, policy or compilation relating to the present or planned business of a Party, which is designated as confidential by the Party supplying the information, whether conveyed orally, electronically, in writing, through inspection, or otherwise, subject to Article 22.1.2.

Current Cost Responsibility (CCR) shall mean the Interconnection Customer's current allocated costs for Assigned Network Upgrades, not to exceed the Maximum Cost Responsibility. This cost is used to calculate the Interconnection Customer's Interconnection Financial Security requirement.

Deliverability shall mean (1) The annual Net Qualifying Capacity of a Generating Facility, as verified through a Deliverability Assessment and measured in MW, which specifies the amount of resource adequacy capacity the Generating Facility is eligible to provide. (2) The annual Maximum Import Capability of an Intertie which specifies the amount of resource adequacy capacity measured in MW, that load-serving entities collectively can procure from imports at that Intertie to meet their resource adequacy requirements.

Default shall mean the failure of a Breaching Party to cure its Breach in accordance with Article 17 of this LGIA.

Distribution System shall mean those non-CAISO-controlled transmission and distribution facilities owned by the Participating TO.

Distribution Upgrades shall mean the additions, modifications, and upgrades to the Participating TO's Distribution System. Distribution Upgrades do not include Interconnection Facilities.



Effective Date shall mean the date on which this LGIA becomes effective upon execution by all Parties subject to acceptance by FERC, or if filed unexecuted, upon the date specified by FERC.

Electric Generating Unit shall mean an individual electric generator and its associated plant and apparatus whose electrical output is capable of being separately identified and metered.

Emergency Condition shall mean a condition or situation: (1) that in the judgment of the Party making the claim is imminently likely to endanger life or property; or (2) that, in the case of the CAISO, is imminently likely (as determined in a non-discriminatory manner) to cause a material adverse effect on the security of, or damage to, the CAISO Controlled Grid or the electric systems of others to which the CAISO Controlled Grid is directly connected; (3) that, in the case of the Participating TO, is imminently likely (as determined in a non-discriminatory manner) to cause a material adverse effect on the security of, or damage to, the Participating TO's Transmission System, Participating TO's Interconnection Facilities, Distribution System, or the electric systems of others to which the Participating TO's electric system is directly connected; or (4) that, in the case of the Interconnection Customer, is imminently likely (as determined in a non-discriminatory manner) to cause a material adverse effect on the security of, or damage to, the Generating Facility or Interconnection Customer's Interconnection Facilities. System restoration and black start shall be considered Emergency Conditions; provided, that Interconnection Customer is not obligated by this LGIA to possess black start capability.

Environmental Law shall mean Applicable Laws or Regulations relating to pollution or protection of the environment or natural resources.

Federal Power Act shall mean the Federal Power Act, as amended, 16 U.S.C. §§ 791a et seq.

FERC shall mean the Federal Energy Regulatory Commission or its successor.

Force Majeure shall mean any act of God, labor disturbance, act of the public enemy, war, insurrection, riot, fire, storm or flood, explosion, breakage or accident to machinery or equipment, any order, regulation or restriction imposed by governmental, military or lawfully established civilian authorities, or any other cause beyond a Party's control. A Force Majeure event does not include acts of negligence or intentional wrongdoing by the Party claiming Force Majeure.

General Reliability Network Upgrade (GRNU) shall mean Reliability Network Upgrades that are not Interconnection Reliability Network Upgrades.

Generating Facility shall mean the Interconnection Customer's Electric Generating Unit(s) used for the production and/or storage for later injection of electricity identified in the Interconnection Customer's Interconnection Request, but shall not include the Interconnection Customer's Interconnection Facilities.



Generating Facility Capacity shall mean the net capacity of the Generating Facility and the aggregate net capacity of the Generating Facility where it includes multiple energy production devices.

Generator Interconnection and Deliverability Allocation Procedures (GIDAP) shall mean the CAISO protocol that sets forth the interconnection and allocation procedures applicable to an Interconnection Request pertaining to a Large Generating Facility that is included in CAISO Tariff Appendix DD.

Generator Interconnection Study Process Agreement shall mean the agreement between the Interconnection Customer and the CAISO for the conduct of the Interconnection Studies.

Good Utility Practice shall mean any of the practices, methods and acts engaged in or approved by a significant portion of the electric utility industry during the relevant time period, or any of the practices, methods and acts which, in the exercise of reasonable judgment in light of the facts known at the time the decision was made, could have been expected to accomplish the desired result at a reasonable cost consistent with good business practices, reliability, safety and expedition. Good Utility Practice is not intended to be any one of a number of the optimum practices, methods, or acts to the exclusion of all others, but rather to be acceptable practices, methods, or acts generally accepted in the region.

Governmental Authority shall mean any federal, state, local or other governmental, regulatory or administrative agency, court, commission, department, board, or other governmental subdivision, legislature, rulemaking board, tribunal, or other governmental authority having jurisdiction over the Parties, their respective facilities, or the respective services they provide, and exercising or entitled to exercise any administrative, executive, police, or taxing authority or power; provided, however, that such term does not include the Interconnection Customer, CAISO, Participating TO, or any Affiliate thereof.

Governing Independent Study Process Interconnection Studies shall mean the engineering study(ies) conducted or caused to be performed by the CAISO, in coordination with the applicable Participating TO(s), that evaluates the impact of the proposed interconnection on the safety and reliability of the Participating TO's Transmission System and, if applicable, an Affected System, which shall consist primarily of a Facilities Study as described in Section 4.5 of the Generation Interconnection Procedures, a System Impact Study as described in Section 4.4 of the Generation Interconnection Procedures, or a system impact and facilities study as described in Section 4.4 of the GIDAP.

Hazardous Substances shall mean any chemicals, materials or substances defined as or included in the definition of "hazardous substances," "hazardous wastes," "hazardous materials," "hazardous constituents," "restricted hazardous materials," "extremely hazardous substances," "toxic substances," "radioactive substances," "contaminants," "pollutants," "toxic pollutants" or words of similar meaning and



regulatory effect under any applicable Environmental Law, or any other chemical, material or substance, exposure to which is prohibited, limited or regulated by any applicable Environmental Law.

Initial Synchronization Date shall mean the date upon which an Electric Generating Unit is initially synchronized and upon which Trial Operation begins.

In-Service Date shall mean the date upon which the Interconnection Customer reasonably expects it will be ready to begin use of the Participating TO's Interconnection Facilities to obtain back feed power.

Interconnection Customer's Interconnection Facilities shall mean all facilities and equipment, as identified in Appendix A of this LGIA, that are located between the Generating Facility and the Point of Change of Ownership, including any modification, addition, or upgrades to such facilities and equipment necessary to physically and electrically interconnect the Generating Facility to the Participating TO's Transmission System. Interconnection Customer's Interconnection Facilities are sole use facilities.

Interconnection Facilities shall mean the Participating TO's Interconnection Facilities and the Interconnection Customer's Interconnection Facilities. Collectively, Interconnection Facilities include all facilities and equipment between the Generating Facility and the Point of Interconnection, including any modification, additions or upgrades that are necessary to physically and electrically interconnect the Generating Facility to the Participating TO's Transmission System. Interconnection Facilities are sole use facilities and shall not include Distribution Upgrades, Stand Alone Network Upgrades or Network Upgrades.

Interconnection Financial Security (IFS) shall mean any of the financial instruments listed in Section 11.1 of the GIDAP that are posted by an Interconnection Customer to finance the construction of facilities or Network Upgrades.

Interconnection Handbook shall mean a handbook, developed by the Participating TO and posted on the Participating TO's web site or otherwise made available by the Participating TO, describing technical and operational requirements for wholesale generators and loads connected to the Participating TO's portion of the CAISO Controlled Grid, as such handbook may be modified or superseded from time to time. Participating TO's standards contained in the Interconnection Handbook shall be deemed consistent with Good Utility Practice and Applicable Reliability Standards. In the event of a conflict between the terms of this LGIA and the terms of the Participating TO's Interconnection Handbook, the terms in this LGIA shall apply.

Interconnection Reliability Network Upgrades (IRNU) shall mean Reliability Network Upgrades at the Point of Interconnection to accomplish the physical interconnection of the Generating Facility to the CAISO Controlled Grid. IRNUs are treated as Reliability Network Upgrades unless otherwise noted.

Interconnection Request shall mean a request, in the form of Appendix 1 to the GIDAP, in accordance with the CAISO Tariff.

Interconnection Service shall mean the service provided by the Participating TO and CAISO associated with interconnecting the Interconnection Customer's Generating Facility to the Participating TO's Transmission System and enabling the CAISO Controlled Grid to receive electric energy and capacity from the Generating Facility at the Point of Interconnection, pursuant to the terms of this LGIA, the Participating TO's Transmission Owner Tariff, and the CAISO Tariff.

Interconnection Study shall mean

- (i) For Interconnection Requests processed under the cluster study process described in the GIDAP, any of the following: the Phase I Interconnection Study conducted or caused to be performed by the CAISO, the reassessment of the Phase I Interconnection Study Base Case conducted or caused to be performed by the CAISO prior to the commencement of the Phase II Interconnection Study, or the Phase II Interconnection Study conducted or caused to be performed by the CAISO, pursuant to the GIDAP.
- (ii) For Interconnection Requests processed under the Independent Study Process described in the GIDAP, the governing study(ies) conducted or caused to be performed by the CAISO, in coordination with the applicable Participating TO(s), pursuant to the GIDAP, which shall consist primarily of a system impact and facilities study as described in Section 4.4 of the GIDAP.

IRS shall mean the Internal Revenue Service.

Large Generating Facility shall mean a Generating Facility having a Generating Facility Capacity of more than 20 MW.

LDNU shall mean Local Delivery Network Upgrades.

Local Deliverability Constraint shall mean a transmission system operating limit modeled in the GIDAP study process that would be exceeded if the CAISO were to assign full capacity or partial capacity deliverability status to one or more additional generating facilities interconnecting to the CAISO Controlled Grid in a specific local area, and that is not an Area Deliverability Constraint.

Local Delivery Network Upgrade shall mean a transmission upgrade or addition identified by the CAISO in the GIDAP study process to relieve a Local Deliverability Constraint.

Local Off-Peak Constraints shall mean a transmission system operating limit modeled in the generator interconnection study process that would be exceeded or lead to excessive curtailment, as described in the Off-Peak Deliverability Assessment



methodology, if the CAISO were to assign Off-Peak Deliverability Status to one or more Generating Facilities interconnecting to the CAISO Controlled Grid in a specific local area, and that is not an Area Off-Peak Constraint.

Local Off-Peak Network Upgrades (LOPNUs) shall mean a transmission upgrade or addition the CAISO identifies in the generator interconnection study process to relieve a Local Off-Peak Constraint.

Loss shall mean any and all damages, losses, and claims, including claims and actions relating to injury to or death of any person or damage to property, demand, suits, recoveries, costs and expenses, court costs, attorney fees, and all other obligations by or to third parties.

Material Modification shall mean those modifications that have a material impact on the cost or timing of any Interconnection Request or any other valid interconnection request with a later queue priority date.

Maximum Cost Exposure (MCE) shall mean, pursuant to Appendix DD, the sum of (1) the Interconnection Customer's Maximum Cost Responsibility and (2) the Conditionally Assigned Network Upgrades from its Phase I or Phase II Interconnection Study.

Maximum Cost Responsibility (MCR) shall mean, pursuant to Appendix DD, the lower sum of the Interconnection Customer's (1) full cost of assigned Interconnection Reliability Network Upgrades and (2) allocated costs for all other Assigned Network Upgrades, from its Phase I or Phase II Interconnection Studies, not to exceed the Maximum Cost Exposure.

Merchant Network Upgrades - Network Upgrades constructed and owned by an Interconnection Customer or a third party pursuant to Article 5.1.5 of this LGIA, Section 14.3 of the GIDAP, and Sections 24.4.6.1 and 36.11 of the CAISO Tariff.

Metering Equipment shall mean all metering equipment installed or to be installed for measuring the output of the Generating Facility pursuant to this LGIA at the metering points, including but not limited to instrument transformers, MWh-meters, data acquisition equipment, transducers, remote terminal unit, communications equipment, phone lines, and fiber optics.

NERC shall mean the North American Electric Reliability Corporation or its successor organization.

Net Scheduled Generating Unit shall mean an Electric Generating Unit identified in a Net Scheduled PGA operated as a single unit such that the energy bid or self-schedule with the CAISO is the net value of the aggregate electrical net output of the Electric Generating Unit and the self-provided load.

Net Scheduled PGA shall mean a Net Scheduled Participating Generator Agreement specifying the special provisions for the operating relationship between a Net Scheduled Generating Unit and the CAISO, a pro forma version of which is set forth in Appendix B.3 of the CAISO Tariff.

Network Upgrades shall be Participating TO's Delivery Network Upgrades and Participating TO's Reliability Network Upgrades.

Off-Peak Deliverability Constraints shall mean a transmission system operating limit that constrains Generating Facilities in an area, leading to the excessive curtailment of expected Energy.

Off-Peak Network Upgrades shall mean Network Upgrades needed to relieve Off-Peak Deliverability Constraints. Area Off-Peak Network Upgrades address Area Off-Peak Constraints. Local Off-Peak Network Upgrades address Local Off-Peak Constraints.

Operational Control shall mean the rights of the CAISO under the Transmission Control Agreement and the CAISO Tariff to direct the parties to the Transmission Control Agreement how to operate their transmission lines and facilities and other electric plant affecting the reliability of those lines and facilities for the purpose of affording comparable non-discriminatory transmission access and meeting applicable reliability criteria.

Option (A) Generating Facilities shall mean a Generating Facility for which the Interconnection Customer has selected Option (A) as the Deliverability option under Section 7.2 of the GIDAP.

Option (B) Generating Facilities shall mean a Generating Facility for which the Interconnection Customer has selected Option (B) as the Deliverability option under Section 7.2 of the GIDAP.

Participating TO's Delivery Network Upgrades shall mean the additions, modifications, and upgrades to the Participating TO's Transmission System at or beyond the Point of Interconnection, other than Reliability Network Upgrades, identified in the Interconnection Studies, as identified in Appendix A, to relieve constraints on the CAISO Controlled Grid. Participating TO Delivery Network Upgrades can be either ADNU or LDNU.

Participating TO's Interconnection Facilities shall mean all facilities and equipment owned, controlled or operated by the Participating TO from the Point of Change of Ownership to the Point of Interconnection as identified in Appendix A to this LGIA, including any modifications, additions or upgrades to such facilities and equipment. Participating TO's Interconnection Facilities are sole use facilities and shall not include Distribution Upgrades, Stand Alone Network Upgrades or Network Upgrades.

Participating TO's Reliability Network Upgrades shall mean the additions, modifications, and upgrades to the Participating TO's Transmission System at or beyond the Point of Interconnection, identified in the Interconnection Studies, as identified in Appendix A, necessary to interconnect the Large Generating Facility safely and reliably to the Participating TO's Transmission System, which would not have been necessary but for the interconnection of the Large Generating Facility, including additions, modifications, and upgrades necessary to remedy short circuit or stability problems resulting from the interconnection of the Large Generating Facility to the Participating TO's Transmission System. Participating TO's Reliability Network Upgrades also include, consistent with Applicable Reliability Standards and Applicable Reliability Council practice, the Participating TO's facilities necessary to mitigate any adverse impact the Large Generating Facility's interconnection may have on a path's Applicable Reliability Council rating. Participating TO's Reliability Network Upgrades do not include any Participating TO's Delivery Network Upgrades.

Participating TO's Transmission System shall mean the facilities owned and operated by the Participating TO and that have been placed under the CAISO's Operational Control, which facilities form part of the CAISO Controlled Grid.

Party or Parties shall mean the Participating TO, CAISO, Interconnection Customer or the applicable combination of the above.

Phase I Interconnection Study shall mean the engineering study conducted or caused to be performed by the CAISO, in coordination with the applicable Participating TO(s), that evaluates the impact of the proposed interconnection on the safety and reliability of the Participating TO's Transmission System and, if applicable, an Affected System. The study shall identify and detail the system impacts that would result if the Generating Facility(ies) were interconnected without identified project modifications or system modifications, as provided in the On-Peak Deliverability Assessment (as defined in the CAISO Tariff), and other potential impacts, including but not limited to those identified in the Scoping Meeting as described in the GIDAP. The study will also identify the approximate total costs, based on per unit costs, of mitigating these impacts, along with an equitable allocation of those costs to Interconnection Customers for their individual Generating Facilities.

Phase II Interconnection Study shall mean an engineering and operational study conducted or caused to be performed by the CAISO in coordination with the applicable Participating TO(s), to determine the Point of Interconnection and a list of facilities (including the Participating TO's Interconnection Facilities, Network Upgrades, Distribution Upgrades, and Stand Alone Network Upgrades), the cost of those facilities, and the time required to interconnect the Generating Facility(ies) with the Participating TO's Transmission System.

Phased Generating Facility shall mean a Generating Facility that is structured to be completed and to achieve Commercial Operation in two or more successive sequences that are specified in this LGIA, such that each sequence comprises a portion of the total megawatt generation capacity of the entire Generating Facility.

Point of Change of Ownership shall mean the point, as set forth in Appendix A to this LGIA, where the Interconnection Customer's Interconnection Facilities connect to the Participating TO's Interconnection Facilities.

Point of Interconnection shall mean the point, as set forth in Appendix A to this LGIA, where the Interconnection Facilities connect to the Participating TO's Transmission System.

Precursor Network Upgrades (PNU) shall mean Network Upgrades required for the Interconnection Customer consisting of (1) Network Upgrades assigned to an earlier Interconnection Customer in an earlier Queue Cluster, Independent Study Process, or Fast Track Process, that has executed its GIA pursuant to Section 14.2.2 of the GIDAP; and (2) Network Upgrades in the approved CAISO Transmission Plan.

Reasonable Efforts shall mean, with respect to an action required to be attempted or taken by a Party under this LGIA, efforts that are timely and consistent with Good Utility Practice and are otherwise substantially equivalent to those a Party would use to protect its own interests.

RNU shall mean Reliability Network Upgrades.

Reliability Network Upgrades (RNU) shall mean the transmission facilities at or beyond the Point of Interconnection identified in the Interconnection Studies as necessary to interconnect one or more Generating Facility(ies) safely and reliably to the CAISO Controlled Grid, which would not have been necessary but for the interconnection of one or more Generating Facility(ies), including Network Upgrades necessary to remedy short circuit or stability problems, or thermal overloads. Reliability Network Upgrades shall only be deemed necessary for system operating limits, occurring under any system condition, which cannot be adequately mitigated through Congestion Management or Operating Procedures based on the characteristics of the Generating Facilities included in the Interconnection Studies, limitations on market models, systems, or information, or other factors specifically identified in the Interconnection Studies. Reliability Network Upgrades also include, consistent with WECC practice, the facilities necessary to mitigate any adverse impact the Generating Facility's interconnection may have on a path's WECC rating. Reliability Network Upgrades include Interconnection Reliability Network Upgrades and General Reliability Network Upgrades.

Scoping Meeting shall mean the meeting among representatives of the Interconnection Customer, the Participating TO(s), other Affected Systems, and the CAISO conducted for the purpose of discussing alternative interconnection options, to exchange information including any transmission data and earlier study evaluations that would be reasonably expected to impact such interconnection options, to analyze such information, and to determine the potential feasible Points of Interconnection.

Stand Alone Network Upgrades shall mean Network Upgrades that are not part of an Affected System that the Interconnection Customer may construct without affecting day-to-day operations of the CAISO Controlled Grid or Affected Systems during their construction. The Participating TO, the CAISO, and the Interconnection Customer must agree as to what constitutes Stand Alone Network Upgrades and identify them in Appendix A to this LGIA. If the CAISO, the Participating TO, and the Interconnection Customer disagree about whether a particular Network Upgrade is a Stand Alone Network Upgrade, the CAISO or Participating TO must provide the Interconnection Customer a written technical explanation outlining why it does not consider the Network Upgrade to be a Stand Alone Network Upgrade within 15 days of its determination.

Surplus Interconnection Service shall mean any unneeded portion of Interconnection Service Capacity established herein, such that if Surplus Interconnection Service is utilized the total amount of Interconnection Service Capacity at the Point of Interconnection would remain the same.

System Protection Facilities shall mean the equipment, including necessary protection signal communications equipment, that protects (1) the Participating TO's Transmission System, Participating TO's Interconnection Facilities, CAISO Controlled Grid, and Affected Systems from faults or other electrical disturbances occurring at the Generating Facility and (2) the Generating Facility from faults or other electrical system disturbances occurring on the CAISO Controlled Grid, Participating TO's Interconnection Facilities, and Affected Systems or on other delivery systems or other generating systems to which the CAISO Controlled Grid is directly connected.

TP Deliverability shall mean the capability, measured in MW, of the CAISO Controlled Grid as modified by transmission upgrades and additions identified in the annual Transmission Plan to support the interconnection with Full Capacity Deliverability Status or Partial Capacity Deliverability Status of additional Generating Facilities in a specified geographic or electrical area of the CAISO Controlled Grid.

Transmission Control Agreement shall mean CAISO FERC Electric Tariff No. 7.

Trial Operation shall mean the period during which the Interconnection Customer is engaged in on-site test operations and commissioning of an Electric Generating Unit prior to Commercial Operation.

Variable Energy Resource shall mean a device for the production of electricity that is characterized by an Energy source that: (1) is renewable; (2) cannot be stored by the facility owner or operator; and (3) has variability that is beyond the control of the facility owner or operator.

ARTICLE 2. EFFECTIVE DATE, TERM AND TERMINATION

- 2.1 Effective Date.** This LGIA shall become effective upon execution by all Parties subject to acceptance by FERC (if applicable), or if filed unexecuted, upon the date specified by FERC. The CAISO and Participating TO shall promptly file this LGIA with FERC upon execution in accordance with Article 3.1, if required.
- 2.2 Term of Agreement.** Subject to the provisions of Article 2.3, this LGIA shall remain in effect for a period of 10 years from the Effective Date (Term Specified in Individual Agreements to be ten (10) years or such other longer period as the Interconnection Customer may request) and shall be automatically renewed for each successive one-year period thereafter.
- 2.3 Termination Procedures.**
- 2.3.1 Written Notice.** This LGIA may be terminated by the Interconnection Customer after giving the CAISO and the Participating TO ninety (90) Calendar Days advance written notice, or by the CAISO and the Participating TO notifying FERC after the Generating Facility permanently ceases Commercial Operation.
- 2.3.2 Default.** A Party may terminate this LGIA in accordance with Article 17.
- 2.3.3 Suspension of Work.** This LGIA may be deemed terminated in accordance with Article 5.16, if applicable.
- 2.3.4** Notwithstanding Articles 2.3.1, 2.3.2, and 2.3.3, no termination shall become effective until the Parties have complied with all Applicable Laws and Regulations applicable to such termination, including the filing with FERC of a notice of termination of this LGIA (if applicable), which notice has been accepted for filing by FERC, and the Interconnection Customer has fulfilled its termination cost obligations under Article 2.4.
- 2.4 Termination Costs.** Immediately upon the other Parties' receipt of a notice of the termination of this LGIA pursuant to Article 2.3 above, the CAISO and the Participating TO will determine the total cost responsibility of the Interconnection Customer. If, as of the date of the other Parties' receipt of the notice of termination, the Interconnection Customer has not already paid its share of Network Upgrade costs, as set forth in Appendix G to this LGIA, the Participating TO will liquidate the Interconnection Customer's Interconnection Financial Security associated with its cost responsibility for Network Upgrades, in accordance with Section 11.4 of the GIDAP.

The Interconnection Customer will also be responsible for all costs incurred or irrevocably committed to be incurred in association with the construction of the

Participating TO's Interconnection Facilities (including any cancellation costs relating to orders or contracts for Interconnection Facilities and equipment) and other such expenses, including any Distribution Upgrades for which the Participating TO or CAISO has incurred expenses or has irrevocably committed to incur expenses and has not been reimbursed by the Interconnection Customer, as of the date of the other Parties' receipt of the notice of termination, subject to the limitations set forth in this Article 2.4. Nothing in this Article 2.4 shall limit the Parties' rights under Article 17. If, as of the date of the other Parties' receipt of the notice of termination, the Interconnection Customer has not already reimbursed the Participating TO and the CAISO for costs incurred to construct the Participating TO's Interconnection Facilities, the Participating TO will liquidate the Interconnection Customer's Interconnection Financial Security associated with the construction of the Participating TO's Interconnection Facilities, in accordance with Section 11.4 of the GIDAP. If the amount of the Interconnection Financial Security liquidated by the Participating TO under this Article 2.4 is insufficient to compensate the CAISO and the Participating TO for actual costs associated with the construction of the Participating TO's Interconnection Facilities contemplated in this Article, any additional amounts will be the responsibility of the Interconnection Customer, subject to the provisions of Section 11.4 of the GIDAP. Any such additional amounts due from the Interconnection Customer beyond the amounts covered by its Interconnection Financial Security will be due to the Participating TO immediately upon termination of this LGIA in accordance with Section 11.4 of the GIDAP.

If the amount of the Interconnection Financial Security exceeds the Interconnection Customer's cost responsibility under Section 11.4 of the GIDAP, any excess amount will be released to the Interconnection Customer in accordance with Section 11.4 of the GIDAP.

2.4.1 Notwithstanding the foregoing, in the event of termination by a Party, all Parties shall use commercially Reasonable Efforts to mitigate the costs, damages, and charges arising as a consequence of termination. With respect to any portion of the Participating TO's Interconnection Facilities that have not yet been constructed or installed, the Participating TO shall to the extent possible and with the Interconnection Customer's authorization cancel any pending orders of, or return, any materials or equipment for, or contracts for construction of, such facilities; provided that in the event the Interconnection Customer elects not to authorize such cancellation, the Interconnection Customer shall assume all payment obligations with respect to such materials, equipment, and contracts, and the Participating TO shall deliver such material and equipment, and, if necessary, assign such contracts, to the Interconnection Customer as soon as practicable, at the Interconnection Customer's expense. To the extent that the Interconnection Customer has already paid the Participating TO for any or all such costs of materials or equipment not taken by the Interconnection Customer, the Participating TO shall

promptly refund such amounts to the Interconnection Customer, less any costs, including penalties, incurred by the Participating TO to cancel any pending orders of or return such materials, equipment, or contracts.

2.4.2 The Participating TO may, at its option, retain any portion of such materials, equipment, or facilities that the Interconnection Customer chooses not to accept delivery of, in which case the Participating TO shall be responsible for all costs associated with procuring such materials, equipment, or facilities.

2.4.3 With respect to any portion of the Interconnection Facilities, and any other facilities already installed or constructed pursuant to the terms of this LGIA, Interconnection Customer shall be responsible for all costs associated with the removal, relocation or other disposition or retirement of such materials, equipment, or facilities.

2.5 Disconnection. Upon termination of this LGIA, the Parties will take all appropriate steps to disconnect the Large Generating Facility from the Participating TO's Transmission System. All costs required to effectuate such disconnection shall be borne by the terminating Party, unless such termination resulted from the non-terminating Party's Default of this LGIA or such non-terminating Party otherwise is responsible for these costs under this LGIA.

2.6 Survival. This LGIA shall continue in effect after termination to the extent necessary to provide for final billings and payments and for costs incurred hereunder, including billings and payments pursuant to this LGIA; to permit the determination and enforcement of liability and indemnification obligations arising from acts or events that occurred while this LGIA was in effect; and to permit each Party to have access to the lands of the other Parties pursuant to this LGIA or other applicable agreements, to disconnect, remove or salvage its own facilities and equipment.

ARTICLE 3. REGULATORY FILINGS AND CAISO TARIFF COMPLIANCE

3.1 Filing. The Participating TO and the CAISO shall file this LGIA (and any amendment hereto) with the appropriate Governmental Authority(ies), if required. The Interconnection Customer may request that any information so provided be subject to the confidentiality provisions of Article 22. If the Interconnection Customer has executed this LGIA, or any amendment thereto, the Interconnection Customer shall reasonably cooperate with the Participating TO and CAISO with respect to such filing and to provide any information reasonably requested by the Participating TO or CAISO needed to comply with applicable regulatory requirements.

- 3.2 Agreement Subject to CAISO Tariff.** The Interconnection Customer will comply with all applicable provisions of the CAISO Tariff, including the GIDAP.
- 3.3 Relationship Between this LGIA and the CAISO Tariff.** With regard to rights and obligations between the Participating TO and the Interconnection Customer, if and to the extent a matter is specifically addressed by a provision of this LGIA (including any appendices, schedules or other attachments to this LGIA), the provisions of this LGIA shall govern. If and to the extent a provision of this LGIA is inconsistent with the CAISO Tariff and dictates rights and obligations between the CAISO and the Participating TO or the CAISO and the Interconnection Customer, the CAISO Tariff shall govern.
- 3.4 Relationship Between this LGIA and the Net Scheduled PGA.** With regard to the rights and obligations of a Net Scheduled Generating Unit that has entered into a Net Scheduled PGA with the CAISO and has entered into this LGIA, if and to the extent a matter is specifically addressed by a provision of the Net Scheduled PGA that is inconsistent with this LGIA, the terms of the Net Scheduled PGA shall govern.

ARTICLE 4. SCOPE OF SERVICE

- 4.1 Interconnection Service.** Interconnection Service allows the Interconnection Customer to connect the Large Generating Facility to the Participating TO's Transmission System and be eligible to deliver the Large Generating Facility's output using the available capacity of the CAISO Controlled Grid. To the extent the Interconnection Customer wants to receive Interconnection Service, the Participating TO shall construct facilities identified in Appendices A and C that the Participating TO is responsible to construct.

Interconnection Service does not necessarily provide the Interconnection Customer with the capability to physically deliver the output of its Large Generating Facility to any particular load on the CAISO Controlled Grid without incurring congestion costs. In the event of transmission constraints on the CAISO Controlled Grid, the Interconnection Customer's Large Generating Facility shall be subject to the applicable congestion management procedures in the CAISO Tariff in the same manner as all other resources. Full Capacity Deliverability Status, Partial Capacity Deliverability Status, and Off-Peak Deliverability Status do not confer any priority over other Generating Facilities to deliver Energy; nor provide any warranty or guarantee to deliver any amount of Energy or avoid curtailment at any time.

- 4.2 Provision of Service.** The Participating TO and the CAISO shall provide Interconnection Service for the Large Generating Facility.
- 4.3 Performance Standards.** Each Party shall perform all of its obligations under this LGIA in accordance with Applicable Laws and Regulations, Applicable Reliability Standards, and Good Utility Practice, and to the extent a Party is

required or prevented or limited in taking any action by such regulations and standards, such Party shall not be deemed to be in Breach of this LGIA for its compliance therewith. If such Party is the CAISO or Participating TO, then that Party shall amend the LGIA and submit the amendment to FERC for approval.

- 4.4 No Transmission Service.** The execution of this LGIA does not constitute a request for, nor the provision of, any transmission service under the CAISO Tariff, and does not convey any right to deliver electricity to any specific customer or point of delivery.
- 4.5 Interconnection Customer Provided Services.** The services provided by Interconnection Customer under this LGIA are set forth in Article 9.6 and Article 13.5.1. Interconnection Customer shall be paid for such services in accordance with Article 11.6.
- 4.6 TP Deliverability.** To the extent that an Interconnection Customer is eligible for and has been allocated TP Deliverability pursuant to Section 8.9 of the GIDAP, the Interconnection Customer's retention of such allocated TP Deliverability shall be contingent upon satisfying the obligations set forth in Section 8.9.3 of the GIDAP. In the event that the Interconnection does not retain allocated TP Deliverability with regard to any portion of the Generating Facility, such portion of the Generating Facility shall be deemed to receive Interconnection Service under this LGIA as Energy Only Deliverability Status.

ARTICLE 5. INTERCONNECTION FACILITIES ENGINEERING, PROCUREMENT, AND CONSTRUCTION

Interconnection Facilities, Network Upgrades, and Distribution Upgrades shall be studied, designed, and constructed pursuant to Good Utility Practice. Such studies, design and construction shall be based on the assumed accuracy and completeness of all technical information received by the Participating TO and the CAISO from the Interconnection Customer associated with interconnecting the Large Generating Facility.

- 5.1 Options.** Unless otherwise mutually agreed among the Parties, the Interconnection Customer shall select the In-Service Date, Initial Synchronization Date, and Commercial Operation Date; and either the Standard Option, Alternate Option, or, if eligible, Merchant Option, set forth below, Interconnection Facilities, Network Upgrades, and Distribution Upgrades, and such dates and selected option shall be set forth in Appendix B, Milestones. At the same time, the Interconnection Customer shall indicate whether it elects the Option to Build set forth in Article 5.1.3 below. If the dates designated by the Interconnection Customer are not acceptable to the CAISO and Participating TO, they shall so notify the Interconnection Customer within thirty (30) calendar days. Upon receipt of the notification that the Interconnection Customer's designated dates

are not acceptable to the CAISO and Participating TO, the Interconnection Customer shall notify the CAISO and Participating TO within thirty (30) calendar days whether it elects to exercise the Option to Build if it has not already elected to exercise the Option to Build.

5.1.1 Standard Option. The Participating TO shall design, procure, and construct the Participating TO's Interconnection Facilities, Network Upgrades, and Distribution Upgrades, using Reasonable Efforts to complete the Participating TO's Interconnection Facilities, Network Upgrades, and Distribution Upgrades by the dates set forth in Appendix B, Milestones. The Participating TO shall not be required to undertake any action which is inconsistent with its standard safety practices, its material and equipment specifications, its design criteria and construction procedures, its labor agreements, and Applicable Laws and Regulations. In the event the Participating TO reasonably expects that it will not be able to complete the Participating TO's Interconnection Facilities, Network Upgrades, and Distribution Upgrades by the specified dates, the Participating TO shall promptly provide written notice to the Interconnection Customer and the CAISO and shall undertake Reasonable Efforts to meet the earliest dates thereafter.

5.1.2 Alternate Option. If the dates designated by the Interconnection Customer are acceptable to the Participating TO, the Participating TO shall so notify the Interconnection Customer within thirty (30) Calendar Days, and shall assume responsibility for the design, procurement and construction of the Participating TO's Interconnection Facilities by the designated dates.

If the Participating TO subsequently fails to complete the Participating TO's Interconnection Facilities by the In-Service Date, to the extent necessary to provide back feed power; or fails to complete Network Upgrades by the Initial Synchronization Date to the extent necessary to allow for Trial Operation at full power output, unless other arrangements are made by the Parties for such Trial Operation; or fails to complete the Network Upgrades by the Commercial Operation Date, as such dates are reflected in Appendix B, Milestones; the Participating TO shall pay the Interconnection Customer liquidated damages in accordance with Article 5.3, Liquidated Damages, provided, however, the dates designated by the Interconnection Customer shall be extended day for day for each day that the CAISO refuses to grant clearances to install equipment.

5.1.3 Option to Build. The Interconnection Customer shall have the option to assume responsibility for the design, procurement and construction of the Participating TO's Interconnection Facilities and Stand Alone Network Upgrades. The Participating TO, CAISO, and Interconnection Customer must agree as to what constitutes Stand Alone Network Upgrades and identify such Stand Alone Network Upgrades in Appendix A to this LGIA.

Except for Stand Alone Network Upgrades, the Interconnection Customer shall have no right to construct Network Upgrades under this option.

5.1.4 Negotiated Option. If the dates designated by the Interconnection Customer are not acceptable to the CAISO and Participating TO, the Parties shall in good faith attempt to negotiate terms and conditions, including revision of the specified dates and liquidated damages, the provision of incentives, or the procurement and construction of all facilities other than the Participating TO's Interconnection Facilities and Stand Alone Network Upgrades if the Interconnection Customer elects to exercise the Option to Build under Article 5.1.3. If the Parties are unable to reach agreement on such terms and conditions, then, pursuant to Article 5.1.1 (Standard Option), the Participating TO shall assume responsibility for the design, procurement and construction of all facilities other than the Participating TO's Interconnection Facilities and Stand Alone Network Upgrades if the Interconnection Customer elects to exercise the Option to Build.

5.1.5 Merchant Option. In addition to any Option to Build set forth in Article 5.1.3 of this LGIA, an Interconnection Customer having an Option (B) Generating Facility may elect to have a party other than the applicable Participating TO construct some or all of the LDNU and ADNU for which the Interconnection Customer has the obligation to fund and which are not subject to reimbursement. Such LDNU and ADNU will be constructed and incorporated into the CAISO Controlled Grid pursuant to the provisions for Merchant Transmission Facilities in CAISO Tariff Sections 24.4.6.1 and 36.11

5.2 General Conditions Applicable to Option to Build. If the Interconnection Customer assumes responsibility for the design, procurement and construction of the Participating TO's Interconnection Facilities and Stand Alone Network Upgrades, or assumes responsibility for any stand-alone task, such as telecommunications, environmental, or real-estate related work:

(1) Within six (6) months of the execution of this LGIA, or at a later date agreed to by the Parties, the Interconnection Customer will submit to the CAISO and the Participating TO a milestone schedule for the design, procurement, and construction of the Stand Alone Network Upgrades, or any stand-alone task assumed by the Interconnection Customer. The milestone schedule will be required to support the Interconnection Customer's Commercial Operation Date, and any Appendix B Milestones will be amended to include the milestone schedule for the Stand Alone Network Upgrades;

(2) The Interconnection Customer shall engineer, procure equipment, and construct the Participating TO's Interconnection Facilities and Stand Alone Network Upgrades (or portions thereof) using Good Utility Practice and

using standards and specifications provided in advance by the Participating TO;

(3) The Interconnection Customer's engineering, procurement and construction of the Participating TO's Interconnection Facilities and Stand Alone Network Upgrades shall comply with all requirements of law to which the Participating TO would be subject in the engineering, procurement or construction of the Participating TO's Interconnection Facilities and Stand Alone Network Upgrades;

(4) The Participating TO shall review, and the Interconnection Customer shall obtain the Participating TO's approval of, the engineering design, equipment acceptance tests, and the construction of the Participating TO's Interconnection Facilities and Stand Alone Network Upgrades, which approval shall not be unreasonably withheld, and the CAISO may, at its option, review the engineering design, equipment acceptance tests, and the construction of the Participating TO's Interconnection Facilities and Stand Alone Network Upgrades;

(5) Prior to commencement of construction, the Interconnection Customer shall provide to the Participating TO, with a copy to the CAISO for informational purposes, a schedule for construction of the Participating TO's Interconnection Facilities and Stand Alone Network Upgrades, and shall promptly respond to requests for information from the Participating TO;

(6) At any time during construction, the Participating TO shall have the right to gain unrestricted access to the Participating TO's Interconnection Facilities and Stand Alone Network Upgrades and to conduct inspections of the same;

(7) At any time during construction, should any phase of the engineering, equipment procurement, or construction of the Participating TO's Interconnection Facilities and Stand Alone Network Upgrades not meet the standards and specifications provided by the Participating TO, the Interconnection Customer shall be obligated to remedy deficiencies in that portion of the Participating TO's Interconnection Facilities and Stand Alone Network Upgrades;

(8) The Interconnection Customer shall indemnify the CAISO and Participating TO for claims arising from the Interconnection Customer's construction of the Participating TO's Interconnection Facilities and Stand Alone Network Upgrades under the terms and procedures applicable to Article 18.1 Indemnity;

(9) The Interconnection Customer shall transfer control of the Participating TO's Interconnection Facilities to the Participating TO and shall transfer Operational Control of Stand Alone Network Upgrades to the CAISO;

(10) Unless the Parties otherwise agree, the Interconnection Customer shall transfer ownership of the Participating TO's Interconnection Facilities and Stand Alone Network Upgrades to the Participating TO. As soon as reasonably practicable, but within twelve months after completion of the construction of the Participating TO's Interconnection Facilities and Stand Alone Network Upgrades, the Interconnection Customer shall provide an invoice of the final cost of the construction of the Participating TO's Interconnection Facilities and Stand Alone Network Upgrades to the Participating TO, which invoice shall set forth such costs in sufficient detail to enable the Participating TO to reflect the proper costs of such facilities in its transmission rate base and to identify the investment upon which refunds will be provided;

(11) The Participating TO shall accept for operation and maintenance the Participating TO's Interconnection Facilities and Stand Alone Network Upgrades to the extent engineered, procured, and constructed in accordance with this Article 5.2; and

(12) The Interconnection Customer's engineering, procurement and construction of the Participating TO's Interconnection Facilities and Stand Alone Network Upgrades shall comply with all requirements of the "Option to Build" conditions set forth in Appendix C. Interconnection Customer shall deliver to the Participating TO "as-built" drawings, information, and any other documents that are reasonably required by the Participating TO to assure that the Interconnection Facilities and Stand-Alone Network Upgrades are built to the standards and specifications required by the Participating TO.

(13) If the Interconnection Customer exercises the Option to Build pursuant to Article 5.1.3, the Interconnection Customer shall pay the Participating TO the agreed upon amount of [REDACTED] for Participating TO to execute the responsibilities enumerated to it under Article 5.2. The Participating TO will invoice the Interconnection Customer for this total amount to be divided on a monthly basis pursuant to Article 12.

5.3 Liquidated Damages. The actual damages to the Interconnection Customer, in the event the Participating TO's Interconnection Facilities or Network Upgrades are not completed by the dates designated by the Interconnection Customer and accepted by the Participating TO pursuant to subparagraphs 5.1.2 or 5.1.4, above, may include Interconnection Customer's fixed operation and maintenance costs and lost opportunity costs. Such actual damages are uncertain and impossible to determine at this time. Because of such uncertainty, any liquidated damages paid by the Participating TO to the Interconnection Customer in the

event that the Participating TO does not complete any portion of the Participating TO's Interconnection Facilities or Network Upgrades by the applicable dates, shall be an amount equal to $\frac{1}{2}$ of 1 percent per day of the actual cost of the Participating TO's Interconnection Facilities and Network Upgrades, in the aggregate, for which the Participating TO has assumed responsibility to design, procure and construct.

However, in no event shall the total liquidated damages exceed 20 percent of the actual cost of the Participating TO's Interconnection Facilities and Network Upgrades for which the Participating TO has assumed responsibility to design, procure, and construct. The foregoing payments will be made by the Participating TO to the Interconnection Customer as just compensation for the damages caused to the Interconnection Customer, which actual damages are uncertain and impossible to determine at this time, and as reasonable liquidated damages, but not as a penalty or a method to secure performance of this LGIA. Liquidated damages, when the Parties agree to them, are the exclusive remedy for the Participating TO's failure to meet its schedule.

No liquidated damages shall be paid to the Interconnection Customer if: (1) the Interconnection Customer is not ready to commence use of the Participating TO's Interconnection Facilities or Network Upgrades to take the delivery of power for the Electric Generating Unit's Trial Operation or to export power from the Electric Generating Unit on the specified dates, unless the Interconnection Customer would have been able to commence use of the Participating TO's Interconnection Facilities or Network Upgrades to take the delivery of power for Electric Generating Unit's Trial Operation or to export power from the Electric Generating Unit, but for the Participating TO's delay; (2) the Participating TO's failure to meet the specified dates is the result of the action or inaction of the Interconnection Customer or any other interconnection customer who has entered into an interconnection agreement with the CAISO and/or Participating TO, action or inaction by the CAISO, or any cause beyond the Participating TO's reasonable control or reasonable ability to cure; (3) the Interconnection Customer has assumed responsibility for the design, procurement and construction of the Participating TO's Interconnection Facilities and Stand Alone Network Upgrades; or (4) the Parties have otherwise agreed.

In no event shall the CAISO have any responsibility or liability to the Interconnection Customer for liquidated damages pursuant to the provisions of this Article 5.3.

- 5.4 Power System Stabilizers.** The Interconnection Customer shall procure, install, maintain and operate Power System Stabilizers in accordance with Applicable Reliability Standards, the guidelines and procedures established by the Applicable Reliability Council, and the provisions of Section 4.6.5.1 of the CAISO Tariff. The CAISO reserves the right to establish reasonable minimum acceptable settings for any installed Power System Stabilizers, subject to the design and operating limitations of the Large Generating Facility. If the Large

Generating Facility's Power System Stabilizers are removed from service or not capable of automatic operation, the Interconnection Customer shall immediately notify the CAISO and the Participating TO and restore the Power System Stabilizers to operation as soon as possible. The CAISO shall have the right to order the reduction in output or disconnection of the Large Generating Facility if the reliability of the CAISO Controlled Grid would be adversely affected as a result of improperly tuned Power System Stabilizers. The requirements of this Article 5.4 shall apply to Asynchronous Generating Facilities in accordance with Appendix H.

5.5 Equipment Procurement. If responsibility for construction of the Participating TO's Interconnection Facilities or Network Upgrades is to be borne by the Participating TO, then the Participating TO shall commence design of the Participating TO's Interconnection Facilities or Network Upgrades and procure necessary equipment as soon as practicable after all of the following conditions are satisfied, unless the Parties otherwise agree in writing:

5.5.1 The CAISO, in coordination with the applicable Participating TO(s), has completed the Phase II Interconnection Study or Governing Independent Study Interconnection Study pursuant to the applicable Generator Interconnection Study Process Agreement or other applicable study process agreement;

5.5.2 The Participating TO has received written authorization to proceed with design and procurement from the Interconnection Customer by the date specified in Appendix B, Milestones; and

5.5.3 The Interconnection Customer has provided security to the Participating TO in accordance with Article 11.5 by the dates specified in Appendix B, Milestones.

5.6 Construction Commencement. The Participating TO shall commence construction of the Participating TO's Interconnection Facilities and Network Upgrades for which it is responsible as soon as practicable after the following additional conditions are satisfied:

5.6.1 Approval of the appropriate Governmental Authority has been obtained for any facilities requiring regulatory approval;

5.6.2 Necessary real property rights and rights-of-way have been obtained, to the extent required for the construction of a discrete aspect of the Participating TO's Interconnection Facilities and Network Upgrades;

5.6.3 The Participating TO has received written authorization to proceed with construction from the Interconnection Customer by the date specified in Appendix B, Milestones; and

- 5.6.4** The Interconnection Customer has provided payment and security to the Participating TO in accordance with Article 11.5 by the dates specified in Appendix B, Milestones.
- 5.7 Work Progress.** The Parties will keep each other advised periodically as to the progress of their respective design, procurement and construction efforts. Any Party may, at any time, request a progress report from another Party. If, at any time, the Interconnection Customer determines that the completion of the Participating TO's Interconnection Facilities will not be required until after the specified In-Service Date, the Interconnection Customer will provide written notice to the Participating TO and CAISO of such later date upon which the completion of the Participating TO's Interconnection Facilities will be required.
- 5.8 Information Exchange.** As soon as reasonably practicable after the Effective Date, the Parties shall exchange information regarding the design and compatibility of the Interconnection Customer's Interconnection Facilities and Participating TO's Interconnection Facilities and compatibility of the Interconnection Facilities with the Participating TO's Transmission System, and shall work diligently and in good faith to make any necessary design changes.
- 5.9 Limited Operation.** If any of the Participating TO's Interconnection Facilities or Network Upgrades are not reasonably expected to be completed prior to the Commercial Operation Date of the Electric Generating Unit, the Participating TO and/or CAISO, as applicable, shall, upon the request and at the expense of the Interconnection Customer, perform operating studies on a timely basis to determine the extent to which the Electric Generating Unit and the Interconnection Customer's Interconnection Facilities may operate prior to the completion of the Participating TO's Interconnection Facilities or Network Upgrades consistent with Applicable Laws and Regulations, Applicable Reliability Standards, Good Utility Practice, and this LGIA. The Participating TO and CAISO shall permit Interconnection Customer to operate the Electric Generating Unit and the Interconnection Customer's Interconnection Facilities in accordance with the results of such studies.
- 5.10 Interconnection Customer's Interconnection Facilities.** The Interconnection Customer shall, at its expense, design, procure, construct, own and install the Interconnection Customer's Interconnection Facilities, as set forth in Appendix A.
- 5.10.1 Large Generating Facility and Interconnection Customer's Interconnection Facilities Specifications.** In addition to the Interconnection Customer's responsibility to submit technical data with its Interconnection Request as required by Section 3.5.1 of the GIDAP, the Interconnection Customer shall submit all remaining necessary specifications for the Interconnection Customer's Interconnection Facilities and Large Generating Facility, including System Protection Facilities, to the Participating TO and the CAISO at least one hundred eighty (180) Calendar Days prior to the Initial Synchronization Date; and final

specifications for review and comment at least ninety (90) Calendar Days prior to the Initial Synchronization Date. The Participating TO and the CAISO shall review such specifications pursuant to this LGIA and the GIDAP to ensure that the Interconnection Customer's Interconnection Facilities and Large Generating Facility are compatible with the technical specifications, operational control, safety requirements, and any other applicable requirements of the Participating TO and the CAISO and comment on such specifications within thirty (30) Calendar Days of the Interconnection Customer's submission. All specifications provided hereunder shall be deemed confidential.

5.10.2 Participating TO's and CAISO's Review. The Participating TO's and the CAISO's review of the Interconnection Customer's final specifications shall not be construed as confirming, endorsing, or providing a warranty as to the design, fitness, safety, durability or reliability of the Large Generating Facility, or the Interconnection Customer's Interconnection Facilities. Interconnection Customer shall make such changes to the Interconnection Customer's Interconnection Facilities as may reasonably be required by the Participating TO or the CAISO, in accordance with Good Utility Practice, to ensure that the Interconnection Customer's Interconnection Facilities are compatible with the technical specifications, Operational Control, and safety requirements of the Participating TO or the CAISO.

5.10.3 Interconnection Customer's Interconnection Facilities Construction. The Interconnection Customer's Interconnection Facilities shall be designed and constructed in accordance with Good Utility Practice. Within one hundred twenty (120) Calendar Days after the Commercial Operation Date, unless the Participating TO and Interconnection Customer agree on another mutually acceptable deadline, the Interconnection Customer shall deliver to the Participating TO and CAISO "as-built" drawings, information and documents for the Interconnection Customer's Interconnection Facilities and the Electric Generating Unit(s), such as: a one-line diagram, a site plan showing the Large Generating Facility and the Interconnection Customer's Interconnection Facilities, plan and elevation drawings showing the layout of the Interconnection Customer's Interconnection Facilities, a relay functional diagram, relaying AC and DC schematic wiring diagrams and relay settings for all facilities associated with the Interconnection Customer's step-up transformers, the facilities connecting the Large Generating Facility to the step-up transformers and the Interconnection Customer's Interconnection Facilities, and the impedances (determined by factory tests) for the associated step-up transformers and the Electric Generating Units. The Interconnection Customer shall provide the Participating TO and the CAISO specifications for the excitation system, automatic voltage regulator, Large Generating Facility control and protection settings, transformer tap settings, and communications, if applicable. Any deviations from the relay settings,

machine specifications, and other specifications originally submitted by the Interconnection Customer shall be assessed by the Participating TO and the CAISO pursuant to the appropriate provisions of this LGIA and the GIDAP.

5.10.4 Interconnection Customer to Meet Requirements of the Participating TO's Interconnection Handbook. The Interconnection Customer shall comply with the Participating TO's Interconnection Handbook.

5.11 Participating TO's Interconnection Facilities Construction. The Participating TO's Interconnection Facilities shall be designed and constructed in accordance with Good Utility Practice. Upon request, within one hundred twenty (120) Calendar Days after the Commercial Operation Date, unless the Participating TO and Interconnection Customer agree on another mutually acceptable deadline, the Participating TO shall deliver to the Interconnection Customer and the CAISO the following "as-built" drawings, information and documents for the Participating TO's Interconnection Facilities [include appropriate drawings and relay diagrams].

The Participating TO will obtain control for operating and maintenance purposes of the Participating TO's Interconnection Facilities and Stand Alone Network Upgrades upon completion of such facilities. Pursuant to Article 5.2, the CAISO will obtain Operational Control of the Stand Alone Network Upgrades prior to the Commercial Operation Date.

5.12 Access Rights. Upon reasonable notice and supervision by a Party, and subject to any required or necessary regulatory approvals, a Party ("Granting Party") shall furnish at no cost to the other Party ("Access Party") any rights of use, licenses, rights of way and easements with respect to lands owned or controlled by the Granting Party, its agents (if allowed under the applicable agency agreement), or any Affiliate, that are necessary to enable the Access Party to obtain ingress and egress to construct, operate, maintain, repair, test (or witness testing), inspect, replace or remove facilities and equipment to: (i) interconnect the Large Generating Facility with the Participating TO's Transmission System; (ii) operate and maintain the Large Generating Facility, the Interconnection Facilities and the Participating TO's Transmission System; and (iii) disconnect or remove the Access Party's facilities and equipment upon termination of this LGIA. In exercising such licenses, rights of way and easements, the Access Party shall not unreasonably disrupt or interfere with normal operation of the Granting Party's business and shall adhere to the safety rules and procedures established in advance, as may be changed from time to time, by the Granting Party and provided to the Access Party.

5.13 Lands of Other Property Owners. If any part of the Participating TO's Interconnection Facilities and/or Network Upgrades are to be installed on property owned by persons other than the Interconnection Customer or Participating TO, the Participating TO shall at the Interconnection Customer's

expense use efforts, similar in nature and extent to those that it typically undertakes on its own behalf or on behalf of its Affiliates, including use of its eminent domain authority, and to the extent consistent with state law, to procure from such persons any rights of use, licenses, rights of way and easements that are necessary to construct, operate, maintain, test, inspect, replace or remove the Participating TO's Interconnection Facilities and/or Network Upgrades upon such property.

- 5.14 Permits.** Participating TO and Interconnection Customer shall cooperate with each other in good faith in obtaining all permits, licenses and authorization that are necessary to accomplish the interconnection in compliance with Applicable Laws and Regulations. With respect to this paragraph, the Participating TO shall provide permitting assistance to the Interconnection Customer comparable to that provided to the Participating TO's own, or an Affiliate's generation.
- 5.15 Early Construction of Base Case Facilities.** The Interconnection Customer may request the Participating TO to construct, and the Participating TO shall construct, using Reasonable Efforts to accommodate Interconnection Customer's In-Service Date, all or any portion of any Network Upgrades required for Interconnection Customer to be interconnected to the Participating TO's Transmission System which are included in the Base Case of the Interconnection Studies for the Interconnection Customer, and which also are required to be constructed for another interconnection customer, but where such construction is not scheduled to be completed in time to achieve Interconnection Customer's In-Service Date.
- 5.16 Suspension.** The Interconnection Customer may request to suspend at any time all work associated with the construction and installation of the Participating TO's Interconnection Facilities, Network Upgrades, and/or Distribution Upgrades required under this LGIA, other than Network Upgrades identified in the Phase II Interconnection Study as common to multiple generating facilities. Interconnection Customers seeking to suspend construction will provide the CAISO and Participating TO a request for assessment pursuant to Section 6.7.2 of the GIDAP, a modification assessment deposit, and an anticipated end date of the suspension. Interconnection Customers may request a suspension for the maximum amount of time in lieu of providing an anticipated end date. The CAISO and Participating TO will approve suspension requests where:
- (a) the Participating TO's electrical system and the CAISO Controlled Grid can be left in a safe and reliable condition in accordance with Good Utility Practice, the Participating TO's safety and reliability criteria, and Applicable Reliability Standards; and
 - (b) the CAISO and Participating TO determine the suspension will not result in a Material Modification.

During suspension, the Interconnection Customer may request to extend or shorten their suspension period, consistent with the maximum period provided in this Article. The CAISO and Participating TO will approve such requests where they meet criteria (a) and (b), above. Requests to extend or shorten extensions will require a new modification assessment request and deposit. The Interconnection Customer shall be responsible for all reasonable and necessary costs for suspension for which the Participating TO (i) has incurred pursuant to this LGIA prior to the suspension and (ii) incurs in suspending such work, including any costs incurred to perform such work as may be necessary to ensure the safety of persons and property and the integrity of the Participating TO's electric system during such suspension and, if applicable, any costs incurred in connection with the cancellation or suspension of material, equipment and labor contracts which the Participating TO cannot reasonably avoid; provided, however, that prior to canceling or suspending any such material, equipment or labor contract, the Participating TO shall obtain Interconnection Customer's authorization to do so.

Network Upgrades common to multiple generating facilities, and to which the Interconnection Customer's right of suspension shall not extend, consist of Network Upgrades identified for:

- (i) generating facilities which are the subject of all Interconnection Requests made prior to the Interconnection Customer's Interconnection Request;
- (ii) generating facilities which are the subject of Interconnection Requests within the Interconnection Customer's queue cluster; and
- (iii) generating facilities that are the subject of Interconnection Requests that were made after the Interconnection Customer's Interconnection Request but no later than the date on which the Interconnection Customer's Phase II Interconnection Study Report is issued, and have been modeled in the Base Case at the time the Interconnection Customer seeks to exercise its suspension rights under this Article.

The Participating TO shall invoice the Interconnection Customer for such costs pursuant to Article 12 and shall use due diligence to minimize its costs. In the event Interconnection Customer suspends work required under this LGIA pursuant to this Article 5.16, and has not requested the Participating TO to recommence the work or has not itself recommenced work required under this LGIA in time to ensure that the new projected Commercial Operation Date for the full Generating Facility Capacity of the Large Generating Facility is no more than three (3) years from the Commercial Operation Date identified in Appendix B hereto, this LGIA shall be deemed terminated and the Interconnection Customer's responsibility for costs will be determined in accordance with Article 2.4 of this LGIA. The suspension period shall begin on the date the Interconnection Customer provides in its request, if approved. Ninety (90) days

before the anticipated end date of the suspension, the Participating TO and the CAISO will tender an amended draft LGIA with new construction milestones. The Parties agree to negotiate the amended draft LGIA in good faith such that it can be executed by the end of the suspension.

Interconnection Customer subject to Section 8.9.2.2 of Appendix DD may not request suspension.

5.17 Taxes.

5.17.1 Interconnection Customer Payments Not Taxable. The Parties intend that all payments or property transfers made by the Interconnection Customer to the Participating TO for the installation of the Participating TO's Interconnection Facilities and the Network Upgrades shall be non-taxable, either as contributions to capital, or as a refundable advance, in accordance with the Internal Revenue Code and any applicable state income tax laws and shall not be taxable as contributions in aid of construction or otherwise under the Internal Revenue Code and any applicable state income tax laws.

5.17.2 Representations And Covenants. In accordance with IRS Notice 2001-82 and IRS Notice 88-129, the Interconnection Customer represents and covenants that (i) ownership of the electricity generated at the Large Generating Facility will pass to another party prior to the transmission of the electricity on the CAISO Controlled Grid, (ii) for income tax purposes, the amount of any payments and the cost of any property transferred to the Participating TO for the Participating TO's Interconnection Facilities will be capitalized by the Interconnection Customer as an intangible asset and recovered using the straight-line method over a useful life of twenty (20) years, and (iii) any portion of the Participating TO's Interconnection Facilities that is a "dual-use intertie," within the meaning of IRS Notice 88-129, is reasonably expected to carry only a de minimis amount of electricity in the direction of the Large Generating Facility. For this purpose, "de minimis amount" means no more than 5 percent of the total power flows in both directions, calculated in accordance with the "5 percent test" set forth in IRS Notice 88-129. This is not intended to be an exclusive list of the relevant conditions that must be met to conform to IRS requirements for non-taxable treatment.

At the Participating TO's request, the Interconnection Customer shall provide the Participating TO with a report from an independent engineer confirming its representation in clause (iii), above. The Participating TO represents and covenants that the cost of the Participating TO's Interconnection Facilities paid for by the Interconnection Customer without the possibility of refund or credit will have no net effect on the base upon which rates are determined.

5.17.3 Indemnification for the Cost Consequence of Current Tax Liability Imposed Upon the Participating TO.

Notwithstanding Article 5.17.1, the Interconnection Customer shall protect, indemnify and hold harmless the Participating TO from the cost consequences of any current tax liability imposed against the Participating TO as the result of payments or property transfers made by the Interconnection Customer to the Participating TO under this LGIA for Interconnection Facilities, as well as any interest and penalties, other than interest and penalties attributable to any delay caused by the Participating TO.

The Participating TO shall not include a gross-up for the cost consequences of any current tax liability in the amounts it charges the Interconnection Customer under this LGIA unless (i) the Participating TO has determined, in good faith, that the payments or property transfers made by the Interconnection Customer to the Participating TO should be reported as income subject to taxation or (ii) any Governmental Authority directs the Participating TO to report payments or property as income subject to taxation; provided, however, that the Participating TO may require the Interconnection Customer to provide security for Interconnection Facilities, in a form reasonably acceptable to the Participating TO (such as a parental guarantee or a letter of credit), in an amount equal to the cost consequences of any current tax liability under this Article 5.17. The Interconnection Customer shall reimburse the Participating TO for such costs on a fully grossed-up basis, in accordance with Article 5.17.4, within thirty (30) Calendar Days of receiving written notification from the Participating TO of the amount due, including detail about how the amount was calculated.

The indemnification obligation shall terminate at the earlier of (1) the expiration of the ten year testing period and the applicable statute of limitation, as it may be extended by the Participating TO upon request of the IRS, to keep these years open for audit or adjustment, or (2) the occurrence of a subsequent taxable event and the payment of any related indemnification obligations as contemplated by this Article 5.17.

5.17.4 Tax Gross-Up Amount. The Interconnection Customer's liability for the cost consequences of any current tax liability under this Article 5.17 shall be calculated on a fully grossed-up basis. Except as may otherwise be agreed to by the parties, this means that the Interconnection Customer will pay the Participating TO, in addition to the amount paid for the Interconnection Facilities and Network Upgrades, an amount equal to (1) the current taxes imposed on the Participating TO ("Current Taxes") on the excess of (a) the gross income realized by the Participating TO as a result of payments or property transfers made by the Interconnection Customer to the Participating TO under this LGIA (without regard to any payments under this Article 5.17) (the "Gross Income Amount") over (b)

the present value of future tax deductions for depreciation that will be available as a result of such payments or property transfers (the "Present Value Depreciation Amount"), plus (2) an additional amount sufficient to permit the Participating TO to receive and retain, after the payment of all Current Taxes, an amount equal to the net amount described in clause (1).

For this purpose, (i) Current Taxes shall be computed based on the Participating TO's composite federal and state tax rates at the time the payments or property transfers are received and the Participating TO will be treated as being subject to tax at the highest marginal rates in effect at that time (the "Current Tax Rate"), and (ii) the Present Value Depreciation Amount shall be computed by discounting the Participating TO's anticipated tax depreciation deductions as a result of such payments or property transfers by the Participating TO's current weighted average cost of capital. Thus, the formula for calculating the Interconnection Customer's liability to the Participating TO pursuant to this Article 5.17.4 can be expressed as follows: $(\text{Current Tax Rate} \times (\text{Gross Income Amount} - \text{Present Value of Tax Depreciation})) / (1 - \text{Current Tax Rate})$. Interconnection Customer's estimated tax liability in the event taxes are imposed shall be stated in Appendix A, Interconnection Facilities, Network Upgrades and Distribution Upgrades.

5.17.5 Private Letter Ruling or Change or Clarification of Law. At the Interconnection Customer's request and expense, the Participating TO shall file with the IRS a request for a private letter ruling as to whether any property transferred or sums paid, or to be paid, by the Interconnection Customer to the Participating TO under this LGIA are subject to federal income taxation. The Interconnection Customer will prepare the initial draft of the request for a private letter ruling, and will certify under penalties of perjury that all facts represented in such request are true and accurate to the best of the Interconnection Customer's knowledge. The Participating TO and Interconnection Customer shall cooperate in good faith with respect to the submission of such request, provided, however, the Interconnection Customer and the Participating TO explicitly acknowledge (and nothing herein is intended to alter) Participating TO's obligation under law to certify that the facts presented in the ruling request are true, correct and complete.

The Participating TO shall keep the Interconnection Customer fully informed of the status of such request for a private letter ruling and shall execute either a privacy act waiver or a limited power of attorney, in a form acceptable to the IRS, that authorizes the Interconnection Customer to participate in all discussions with the IRS regarding such request for a private letter ruling. The Participating TO shall allow the Interconnection Customer to attend all meetings with IRS officials about the request and shall permit the Interconnection Customer to prepare the initial drafts of

any follow-up letters in connection with the request.

5.17.6 Subsequent Taxable Events. If, within 10 years from the date on which the relevant Participating TO's Interconnection Facilities are placed in service, (i) the Interconnection Customer Breaches the covenants contained in Article 5.17.2, (ii) a "disqualification event" occurs within the meaning of IRS Notice 88-129, or (iii) this LGIA terminates and the Participating TO retains ownership of the Interconnection Facilities and Network Upgrades, the Interconnection Customer shall pay a tax gross-up for the cost consequences of any current tax liability imposed on the Participating TO, calculated using the methodology described in Article 5.17.4 and in accordance with IRS Notice 90-60.

5.17.7 Contests. In the event any Governmental Authority determines that the Participating TO's receipt of payments or property constitutes income that is subject to taxation, the Participating TO shall notify the Interconnection Customer, in writing, within thirty (30) Calendar Days of receiving notification of such determination by a Governmental Authority. Upon the timely written request by the Interconnection Customer and at the Interconnection Customer's sole expense, the Participating TO may appeal, protest, seek abatement of, or otherwise oppose such determination. Upon the Interconnection Customer's written request and sole expense, the Participating TO may file a claim for refund with respect to any taxes paid under this Article 5.17, whether or not it has received such a determination. The Participating TO reserve the right to make all decisions with regard to the prosecution of such appeal, protest, abatement or other contest, including the selection of counsel and compromise or settlement of the claim, but the Participating TO shall keep the Interconnection Customer informed, shall consider in good faith suggestions from the Interconnection Customer about the conduct of the contest, and shall reasonably permit the Interconnection Customer or an Interconnection Customer representative to attend contest proceedings.

The Interconnection Customer shall pay to the Participating TO on a periodic basis, as invoiced by the Participating TO, the Participating TO's documented reasonable costs of prosecuting such appeal, protest, abatement or other contest, including any costs associated with obtaining the opinion of independent tax counsel described in this Article 5.17.7. The Participating TO may abandon any contest if the Interconnection Customer fails to provide payment to the Participating TO within thirty (30) Calendar Days of receiving such invoice.

At any time during the contest, the Participating TO may agree to a settlement either with the Interconnection Customer's consent or, if such consent is refused, after obtaining written advice from independent nationally-recognized tax counsel, selected by the Participating TO, but reasonably acceptable to the Interconnection Customer, that the proposed

settlement represents a reasonable settlement given the hazards of litigation. The Interconnection Customer's obligation shall be based on the amount of the settlement agreed to by the Interconnection Customer, or if a higher amount, so much of the settlement that is supported by the written advice from nationally-recognized tax counsel selected under the terms of the preceding paragraph. The settlement amount shall be calculated on a fully grossed-up basis to cover any related cost consequences of the current tax liability. The Participating TO may also settle any tax controversy without receiving the Interconnection Customer's consent or any such written advice; however, any such settlement will relieve the Interconnection Customer from any obligation to indemnify the Participating TO for the tax at issue in the contest (unless the failure to obtain written advice is attributable to the Interconnection Customer's unreasonable refusal to the appointment of independent tax counsel).

5.17.8 Refund. In the event that (a) a private letter ruling is issued to the Participating TO which holds that any amount paid or the value of any property transferred by the Interconnection Customer to the Participating TO under the terms of this LGIA is not subject to federal income taxation, (b) any legislative change or administrative announcement, notice, ruling or other determination makes it reasonably clear to the Participating TO in good faith that any amount paid or the value of any property transferred by the Interconnection Customer to the Participating TO under the terms of this LGIA is not taxable to the Participating TO, (c) any abatement, appeal, protest, or other contest results in a determination that any payments or transfers made by the Interconnection Customer to the Participating TO are not subject to federal income tax, or (d) if the Participating TO receives a refund from any taxing authority for any overpayment of tax attributable to any payment or property transfer made by the Interconnection Customer to the Participating TO pursuant to this LGIA, the Participating TO shall promptly refund to the Interconnection Customer the following:

(i) any payment made by Interconnection Customer under this Article 5.17 for taxes that is attributable to the amount determined to be non-taxable, together with interest thereon,

(ii) interest on any amounts paid by the Interconnection Customer to the Participating TO for such taxes which the Participating TO did not submit to the taxing authority, calculated in accordance with the methodology set forth in FERC's regulations at 18 C.F.R. §35.19a(a)(2)(iii) from the date payment was made by the Interconnection Customer to the date the Participating TO refunds such payment to the Interconnection Customer, and

(iii) with respect to any such taxes paid by the Participating TO, any refund or credit the Participating TO receives or to which it may be entitled from any Governmental Authority, interest (or that portion thereof attributable to the payment described in clause (i), above) owed to the Participating TO for such overpayment of taxes (including any reduction in interest otherwise payable by the Participating TO to any Governmental Authority resulting from an offset or credit); provided, however, that the Participating TO will remit such amount promptly to the Interconnection Customer only after and to the extent that the Participating TO has received a tax refund, credit or offset from any Governmental Authority for any applicable overpayment of income tax related to the Participating TO's Interconnection Facilities.

The intent of this provision is to leave the Parties, to the extent practicable, in the event that no taxes are due with respect to any payment for Interconnection Facilities and Network Upgrades hereunder, in the same position they would have been in had no such tax payments been made.

5.17.9 Taxes Other Than Income Taxes. Upon the timely request by the Interconnection Customer, and at the Interconnection Customer's sole expense, the CAISO or Participating TO may appeal, protest, seek abatement of, or otherwise contest any tax (other than federal or state income tax) asserted or assessed against the CAISO or Participating TO for which the Interconnection Customer may be required to reimburse the CAISO or Participating TO under the terms of this LGIA. The Interconnection Customer shall pay to the Participating TO on a periodic basis, as invoiced by the Participating TO, the Participating TO's documented reasonable costs of prosecuting such appeal, protest, abatement, or other contest. The Interconnection Customer, the CAISO, and the Participating TO shall cooperate in good faith with respect to any such contest. Unless the payment of such taxes is a prerequisite to an appeal or abatement or cannot be deferred, no amount shall be payable by the Interconnection Customer to the CAISO or Participating TO for such taxes until they are assessed by a final, non-appealable order by any court or agency of competent jurisdiction. In the event that a tax payment is withheld and ultimately due and payable after appeal, the Interconnection Customer will be responsible for all taxes, interest and penalties, other than penalties attributable to any delay caused by the Participating TO.

5.18 Tax Status. Each Party shall cooperate with the others to maintain the other Parties' tax status. Nothing in this LGIA is intended to adversely affect the CAISO's or any Participating TO's tax exempt status with respect to the issuance of bonds including, but not limited to, Local Furnishing Bonds.

5.19 Modification.

5.19.1 General. The Interconnection Customer or the Participating TO may undertake modifications to its facilities, subject to Section 25.1(c) and Section 25 of the CAISO Tariff if the Interconnection Customer has achieved its Commercial Operation Date, and subject to Section 6.7.2 of Appendix DD if it has not.

If a Party plans to undertake a modification that reasonably may be expected to affect the other Parties' facilities, that Party shall provide to the other Parties sufficient information regarding such modification so that the other Parties may evaluate the potential impact of such modification prior to commencement of the work. Such information shall be deemed to be confidential hereunder and shall include information concerning the timing of such modifications and whether such modifications are expected to interrupt the flow of electricity from the Large Generating Facility. The Party desiring to perform such work shall provide the relevant drawings, plans, and specifications to the other Parties at least ninety (90) Calendar Days in advance of the commencement of the work or such shorter period upon which the Parties may agree, which agreement shall not unreasonably be withheld, conditioned or delayed.

Notwithstanding Section 7.5 of Appendix DD, at any time after achieving its Commercial Operation Date, the Interconnection Customer may reduce the megawatt generating capacities of its Generating Facilities, subject to Section 25.1(c) of the CAISO Tariff. Section 7.5.11 of Appendix DD will still apply to such requests to reduce capacity.

5.19.2 Standards. Any additions, modifications, or replacements made to a Party's facilities shall be designed, constructed and operated in accordance with this LGIA and Good Utility Practice.

5.19.3 Modification Costs. The Interconnection Customer shall not be directly assigned the costs of any additions, modifications, or replacements that the Participating TO makes to the Participating TO's Interconnection Facilities or the Participating TO's Transmission System to facilitate the interconnection of a third party to the Participating TO's Interconnection Facilities or the Participating TO's Transmission System, or to provide transmission service to a third party under the CAISO Tariff. The Interconnection Customer shall be responsible for the costs of any additions, modifications, or replacements to the Interconnection Facilities that may be necessary to maintain or upgrade such Interconnection Facilities consistent with Applicable Laws and Regulations, Applicable Reliability Standards or Good Utility Practice.

5.20 Annual Reassessment Process. In accordance with Section 7.4 of the GIDAP, the CAISO will perform an annual reassessment, as part of a queue cluster interconnection study cycle, in which it will update certain base case data prior to beginning the GIDAP Phase II Interconnection Studies. As set forth in Section 7.4, the CAISO may determine through this assessment that Delivery Network Upgrades and Off-Peak Network Upgrades already identified and included in executed generator interconnection agreements should be modified in order to reflect the current circumstances of interconnection customers in the queue, including any withdrawals therefrom, and any additions and upgrades approved in the CAISO's most recent TPP cycle. To the extent that this determination modifies the scope or characteristics of, or the cost responsibility for, any Delivery Network Upgrades and Off-Peak Network Upgrades set forth in Appendix A to this LGIA, such modification(s) will be reflected through an amendment to this LGIA.

ARTICLE 6. TESTING AND INSPECTION

6.1 Pre-Commercial Operation Date Testing and Modifications. Prior to the Commercial Operation Date, the Participating TO shall test the Participating TO's Interconnection Facilities, Network Upgrades, and Distribution Upgrades and the Interconnection Customer shall test the Large Generating Facility and the Interconnection Customer's Interconnection Facilities to ensure their safe and reliable operation. Similar testing may be required after initial operation. Each Party shall make any modifications to its facilities that are found to be necessary as a result of such testing. The Interconnection Customer shall bear the cost of all such testing and modifications. The Interconnection Customer shall not commence initial parallel operation of an Electric Generating Unit with the Participating TO's Transmission System until the Participating TO provides prior written approval, which approval shall not be unreasonably withheld, for operation of such Electric Generating Unit. The Interconnection Customer shall generate test energy at the Large Generating Facility only if it has arranged for the delivery of such test energy.

6.2 Post-Commercial Operation Date Testing and Modifications. Each Party shall at its own expense perform routine inspection and testing of its facilities and equipment in accordance with Good Utility Practice as may be necessary to ensure the continued interconnection of the Large Generating Facility with the Participating TO's Transmission System in a safe and reliable manner. Each Party shall have the right, upon advance written notice, to require reasonable additional testing of the other Party's facilities, at the requesting Party's expense, as may be in accordance with Good Utility Practice.

6.3 Right to Observe Testing. Each Party shall notify the other Parties at least fourteen (14) Calendar Days in advance of its performance of tests of its Interconnection Facilities or Generating Facility. The other Parties have the right, at their own expense, to observe such testing.

6.4 Right to Inspect. Each Party shall have the right, but shall have no obligation to: (i) observe another Party's tests and/or inspection of any of its System Protection Facilities and other protective equipment, including Power System Stabilizers; (ii) review the settings of another Party's System Protection Facilities and other protective equipment; and (iii) review another Party's maintenance records relative to the Interconnection Facilities, the System Protection Facilities and other protective equipment. A Party may exercise these rights from time to time as it deems necessary upon reasonable notice to the other Party. The exercise or non-exercise by a Party of any such rights shall not be construed as an endorsement or confirmation of any element or condition of the Interconnection Facilities or the System Protection Facilities or other protective equipment or the operation thereof, or as a warranty as to the fitness, safety, desirability, or reliability of same. Any information that a Party obtains through the exercise of any of its rights under this Article 6.4 shall be deemed to be Confidential Information and treated pursuant to Article 22 of this LGIA.

ARTICLE 7. METERING

7.1 General. Each Party shall comply with any Applicable Reliability Standards and the Applicable Reliability Council requirements. The Interconnection Customer and CAISO shall comply with the provisions of the CAISO Tariff regarding metering, including Section 10 of the CAISO Tariff. Unless otherwise agreed by the Participating TO and the Interconnection Customer, the Participating TO may install additional Metering Equipment at the Point of Interconnection prior to any operation of any Electric Generating Unit and shall own, operate, test and maintain such Metering Equipment. Power flows to and from the Large Generating Facility shall be measured at or, at the CAISO's or Participating TO's option for its respective Metering Equipment, compensated to, the Point of Interconnection. The CAISO shall provide metering quantities to the Interconnection Customer upon request in accordance with the CAISO Tariff by directly polling the CAISO's meter data acquisition system. The Interconnection Customer shall bear all reasonable documented costs associated with the purchase, installation, operation, testing and maintenance of the Metering Equipment.

7.2 Check Meters. The Interconnection Customer, at its option and expense, may install and operate, on its premises and on its side of the Point of Interconnection, one or more check meters to check the CAISO-pollled meters or the Participating TO's meters. Such check meters shall be for check purposes only and shall not be used for the measurement of power flows for purposes of this LGIA, except in the case that no other means are available on a temporary basis at the option of the CAISO or the Participating TO. The check meters shall be subject at all reasonable times to inspection and examination by the CAISO or Participating TO or their designees. The installation, operation and maintenance

thereof shall be performed entirely by the Interconnection Customer in accordance with Good Utility Practice.

- 7.3 Participating TO Retail Metering.** The Participating TO may install retail revenue quality meters and associated equipment, pursuant to the Participating TO's applicable retail tariffs.

ARTICLE 8. COMMUNICATIONS

- 8.1 Interconnection Customer Obligations.** The Interconnection Customer shall maintain satisfactory operating communications with the CAISO in accordance with the provisions of the CAISO Tariff and with the Participating TO's dispatcher or representative designated by the Participating TO. The Interconnection Customer shall provide standard voice line, dedicated voice line and facsimile communications at its Large Generating Facility control room or central dispatch facility through use of either the public telephone system, or a voice communications system that does not rely on the public telephone system. The Interconnection Customer shall also provide the dedicated data circuit(s) necessary to provide Interconnection Customer data to the CAISO and Participating TO as set forth in Appendix D, Security Arrangements Details. The data circuit(s) shall extend from the Large Generating Facility to the location(s) specified by the CAISO and Participating TO. Any required maintenance of such communications equipment shall be performed by the Interconnection Customer. Operational communications shall be activated and maintained under, but not be limited to, the following events: system paralleling or separation, scheduled and unscheduled shutdowns, equipment clearances, and hourly and daily load data.
- 8.2 Remote Terminal Unit.** Prior to the Initial Synchronization Date of each Electric Generating Unit, a Remote Terminal Unit, or equivalent data collection and transfer equipment acceptable to the Parties, shall be installed by the Interconnection Customer, or by the Participating TO at the Interconnection Customer's expense, to gather accumulated and instantaneous data to be telemetered to the location(s) designated by the CAISO and by the Participating TO through use of a dedicated point-to-point data circuit(s) as indicated in Article 8.1.

Telemetry to the CAISO shall be provided in accordance with the CAISO's technical standards for direct telemetry. For telemetry to the Participating TO, the communication protocol for the data circuit(s) shall be specified by the Participating TO. Instantaneous bi-directional real power and reactive power flow and any other required information must be telemetered directly to the location(s) specified by the Participating TO.

Each Party will promptly advise the other Parties if it detects or otherwise learns of any metering, telemetry or communications equipment errors or malfunctions that require the attention and/or correction by another Party. The Party owning such equipment shall correct such error or malfunction as soon as reasonably feasible.

- 8.3 No Annexation.** Any and all equipment placed on the premises of a Party shall be and remain the property of the Party providing such equipment regardless of the mode and manner of annexation or attachment to real property, unless otherwise mutually agreed by the Parties.
- 8.4 Provision of Data from a Variable Energy Resource.** The Interconnection Customer whose Generating Facility is a Variable Energy Resource shall provide meteorological and forced outage data to the CAISO to the extent necessary for the CAISO's development and deployment of power production forecasts for that class of Variable Energy Resources. The Interconnection Customer with a Variable Energy Resource having wind as the energy source, at a minimum, will be required to provide the CAISO with site-specific meteorological data including: temperature, wind speed, wind direction, and atmospheric pressure. The Interconnection Customer with a Variable Energy Resource having solar as the energy source, at a minimum, will be required to provide the CAISO with site-specific meteorological data including: temperature, atmospheric pressure, and irradiance. The CAISO and Interconnection Customer whose Generating Facility is a Variable Energy Resource shall mutually agree to any additional meteorological data that are required for the development and deployment of a power production forecast. The Interconnection Customer whose Generating Facility is a Variable Energy Resource also shall submit data to the CAISO regarding all forced outages to the extent necessary for the CAISO's development and deployment of power production forecasts for that class of Variable Energy Resources. The exact specifications of the meteorological and forced outage data to be provided by the Interconnection Customer to the CAISO, including the frequency and timing of data submittals, shall be made taking into account the size and configuration of the Variable Energy Resource, its characteristics, location, and its importance in maintaining generation resource adequacy and transmission system reliability in its area. All requirements for meteorological and forced outage data must be commensurate with the power production forecasting employed by the CAISO. Such requirements for meteorological and forced outage data are set forth in Appendix C, Interconnection Details, of this LGIA, as they may change from time to time.

ARTICLE 9. OPERATIONS

- 9.1 General.** Each Party shall comply with Applicable Reliability Standards and the Applicable Reliability Council requirements. Each Party shall provide to the other Party all information that may reasonably be required by the other Party to

comply with Applicable Laws and Regulations and Applicable Reliability Standards.

- 9.2 Balancing Authority Area Notification.** At least three months before Initial Synchronization Date, the Interconnection Customer shall notify the CAISO and Participating TO in writing of the Balancing Authority Area in which the Large Generating Facility intends to be located. If the Interconnection Customer intends to locate the Large Generating Facility in a Balancing Authority Area other than the Balancing Authority Area within whose electrically metered boundaries the Large Generating Facility is located, and if permitted to do so by the relevant transmission tariffs, all necessary arrangements, including but not limited to those set forth in Article 7 and Article 8 of this LGIA, and remote Balancing Authority Area generator interchange agreements, if applicable, and the appropriate measures under such agreements, shall be executed and implemented prior to the placement of the Large Generating Facility in the other Balancing Authority Area.
- 9.3 CAISO and Participating TO Obligations.** The CAISO and Participating TO shall cause the Participating TO's Transmission System to be operated and controlled in a safe and reliable manner and in accordance with this LGIA. The Participating TO at the Interconnection Customer's expense shall cause the Participating TO's Interconnection Facilities to be operated, maintained and controlled in a safe and reliable manner and in accordance with this LGIA. The CAISO and Participating TO may provide operating instructions to the Interconnection Customer consistent with this LGIA and Participating TO and CAISO operating protocols and procedures as they may change from time to time. The Participating TO and CAISO will consider changes to their operating protocols and procedures proposed by the Interconnection Customer.
- 9.4 Interconnection Customer Obligations.** The Interconnection Customer shall at its own expense operate, maintain and control the Large Generating Facility and the Interconnection Customer's Interconnection Facilities in a safe and reliable manner and in accordance with this LGIA. The Interconnection Customer shall operate the Large Generating Facility and the Interconnection Customer's Interconnection Facilities in accordance with all applicable requirements of the Balancing Authority Area of which it is part, including such requirements as set forth in Appendix C, Interconnection Details, of this LGIA. Appendix C, Interconnection Details, will be modified to reflect changes to the requirements as they may change from time to time. A Party may request that another Party provide copies of the requirements set forth in Appendix C, Interconnection Details, of this LGIA. The Interconnection Customer shall not commence Commercial Operation of an Electric Generating Unit with the Participating TO's Transmission System until the Participating TO provides prior written approval, which approval shall not be unreasonably withheld, for operation of such Electric Generating Unit.

9.5 Start-Up and Synchronization. Consistent with the Parties' mutually acceptable procedures, the Interconnection Customer is responsible for the proper synchronization of each Electric Generating Unit to the CAISO Controlled Grid.

9.6 Reactive Power.

9.6.1 Power Factor Design Criteria. For all Generating Facilities other than Asynchronous Generating Facilities, the Interconnection Customer shall design the Large Generating Facility to maintain a composite power delivery at continuous rated power output at the terminals of the Electric Generating Unit at a power factor within the range of 0.95 leading to 0.90 lagging, unless the CAISO has established different requirements that apply to all generators in the Balancing Authority Area on a comparable basis. For Asynchronous Generating Facilities, the Interconnection Customer shall design the Large Generating Facility to maintain power factor criteria in accordance with Appendix H of this LGIA except in the following cases: (a) an Interconnection Customer posts Interconnection Financial Security for an Asynchronous Generating Facility pursuant to Appendix DD of the CAISO Tariff Section 11.2.2 on or after September 21, 2016; or (b) an Interconnection Customer that submits an Interconnection Request for an Asynchronous Generating Facility under the Fast Track Process pursuant to Appendix DD of the CAISO Tariff on or after September 21, 2016.

When an Interconnection Customer posts Interconnection Financial Security for an Asynchronous Generating Facility pursuant to Appendix DD of the CAISO Tariff on or after September 21, 2016, the Interconnection Customer will design the Large Generator Facility to maintain a composite power delivery at continuous rated power output at the high-side of the generator substation at a power factor within the range of 0.95 leading to 0.95 lagging, unless the CAISO has established a different power factor range that applies to all Asynchronous Generating Facilities on a comparable basis. This power factor range standard shall be dynamic and can be met using, for example, power electronics designed to supply this level of reactive capability (taking into account any limitations due to voltage level, real power output, etc.) or fixed and switched capacitors and reactors, or a combination of the two.

When an Interconnection Customer submits an Interconnection Request for an Asynchronous Generating Facility under the Fast Track Process pursuant to Appendix DD of the CAISO Tariff on or after September 21, 2016, the Interconnection Customer will design the Large Generating Facility to maintain a composite power delivery at continuous rated power output at the high-side of the generator substation at a power factor within the range of 0.95 leading to 0.95 lagging, unless the CAISO has

established a different power factor range that applies to all Asynchronous Generating Facilities on a comparable basis. This power factor range standard shall be dynamic and can be met using, for example, power electronics designed to supply this level of reactive capability (taking into account any limitations due to voltage level, real power output, etc.) or fixed and switched capacitors and reactors, or a combination of the two.

9.6.2 Voltage Schedules. Once the Interconnection Customer has synchronized an Electric Generating Unit with the CAISO Controlled Grid, the CAISO or Participating TO shall require the Interconnection Customer to maintain a voltage schedule by operating the Electric Generating Unit to produce or absorb reactive power within the design limitations of the Electric Generating Unit set forth in Article 9.6.1 (Power Factor Design Criteria). CAISO's voltage schedules shall treat all sources of reactive power in the Balancing Authority Area in an equitable and not unduly discriminatory manner. The Participating TO shall exercise Reasonable Efforts to provide the Interconnection Customer with such schedules at least one (1) day in advance, and the CAISO or Participating TO may make changes to such schedules as necessary to maintain the reliability of the CAISO Controlled Grid or the Participating TO's electric system. The Interconnection Customer shall operate the Electric Generating Unit to maintain the specified output voltage or power factor within the design limitations of the Electric Generating Unit set forth in Article 9.6.1 (Power Factor Design Criteria), and as may be required by the CAISO to operate the Electric Generating Unit at a specific voltage schedule within the design limitations set forth in Article 9.6.1. If the Interconnection Customer is unable to maintain the specified voltage or power factor, it shall promptly notify the CAISO and the Participating TO.

9.6.2.1 Voltage Regulators. Whenever an Electric Generating Unit is operated in parallel with the CAISO Controlled Grid and voltage regulators are capable of operation, the Interconnection Customer shall operate the Electric Generating Unit with its voltage regulators in automatic operation. If the Electric Generating Unit's voltage regulators are not capable of such automatic operation, the Interconnection Customer shall immediately notify the CAISO and the Participating TO and ensure that the Electric Generating Unit operates as specified in Article 9.6.2 through manual operation and that such Electric Generating Unit's reactive power production or absorption (measured in MVARs) are within the design capability of the Electric Generating Unit(s) and steady state stability limits. The Interconnection Customer shall restore the speed governors and voltage regulators to automatic operation as soon as possible. If the Large Generating Facility's speed governors and voltage regulators are improperly tuned or malfunctioning, the CAISO shall have the right to order the reduction in output or disconnection of

the Large Generating Facility if the reliability of the CAISO Controlled Grid would be adversely affected. The Interconnection Customer shall not cause its Large Generating Facility to disconnect automatically or instantaneously from the CAISO Controlled Grid or trip any Electric Generating Unit comprising the Large Generating Facility for an under or over frequency condition unless the abnormal frequency condition persists for a time period beyond the limits set forth in ANSI/IEEE Standard C37.106, or such other standard as applied to other generators in the Balancing Authority Area on a comparable basis.

9.6.3 Payment for Reactive Power. CAISO is required to pay the Interconnection Customer for reactive power that Interconnection Customer provides or absorbs from an Electric Generating Unit when the CAISO requests the Interconnection Customer to operate its Electric Generating Unit outside the range specified in Article 9.6.1, provided that if the CAISO pays other generators for reactive power service within the specified range, it must also pay the Interconnection Customer. Payments shall be pursuant to Article 11.6 or such other agreement to which the CAISO and Interconnection Customer have otherwise agreed.

9.6.4 Primary Frequency Response. Interconnection Customer shall ensure the primary frequency response capability of its Electric Generating Unit(s) by installing, maintaining, and operating a functioning governor or equivalent controls. The term “functioning governor or equivalent controls” as used herein shall mean the required hardware and/or software that provides frequency responsive real power control with the ability to sense changes in system frequency and autonomously adjust the Electric Generating Unit’s real power output in accordance with the droop and deadband parameters and in the direction needed to correct frequency deviations. Interconnection Customer is required to install a governor or equivalent controls with the capability of operating: (1) with a maximum 5 percent droop and ± 0.036 Hz deadband; or (2) in accordance with the relevant droop, deadband, and timely and sustained response settings from Applicable Reliability Standards providing for equivalent or more stringent parameters. The droop characteristic shall be: (1) based on the nameplate capacity of the Electric Generating Unit(s), and shall be linear in the range of frequencies between 59 to 61 Hz that are outside of the deadband parameter; or (2) based on Applicable Reliability Standards providing for an equivalent or more stringent parameter. The deadband parameter shall be: the range of frequencies above and below nominal (60 Hz) in which the governor or equivalent controls is not expected to adjust the Electric Generating Units’ real power output in response to frequency deviations. The deadband shall be implemented: (1) without a step to the droop curve, that is, once the frequency deviation exceeds the deadband parameter, the expected change in the Electric Generating Units’ real

power output in response to frequency deviations shall start from zero and then increase (for under-frequency deviations) or decrease (for over-frequency deviations) linearly in proportion to the magnitude of the frequency deviation; or (2) in accordance with Applicable Reliability Standards providing for an equivalent or more stringent parameter. Interconnection Customer shall notify the CAISO that the primary frequency response capability of the Electric Generating Unit(s) has been tested and confirmed during commissioning. Once Interconnection Customer has synchronized the Electric Generating Unit(s) with the CAISO Controlled Grid, Interconnection Customer shall operate the Electric Generating Unit(s) consistent with the provisions specified in Sections 9.6.4.1 and 9.6.4.2 of this LGIA. The primary frequency response requirements contained herein shall apply to both synchronous and non-synchronous Large Generating Facilities.

9.6.4.1 Governor or Equivalent Controls. Whenever the Electric Generating Unit(s) is operated in parallel with the CAISO Controlled Grid, Interconnection Customer shall operate the Electric Generating Unit(s) with its governor or equivalent controls in service and responsive to frequency. Interconnection Customer shall, in coordination with the CAISO, set the deadband parameter to: (1) a maximum of ± 0.036 Hz and set the droop parameter to a maximum of 5 percent; or (2) implement the relevant droop and deadband settings from Applicable Reliability Standards that provides for equivalent or more stringent parameters. Interconnection Customer shall be required to provide the status and settings of the governor or equivalent controls to the CAISO upon request. If Interconnection Customer needs to operate the Electric Generating Unit(s) with its governor or equivalent controls not in service, Interconnection Customer shall immediately notify the CAISO, and provide the following information: (1) the operating status of the governor or equivalent controls (i.e., whether it is currently out of service or when it will be taken out of service); (2) the reasons for removing the governor or equivalent controls from service; and (3) a reasonable estimate of when the governor or equivalent controls will be returned to service. Interconnection Customer shall make Reasonable Efforts to return its governor or equivalent controls into service as soon as practicable. Interconnection Customer shall make Reasonable Efforts to keep outages of the Electric Generating Units' governor or equivalent controls to a minimum whenever the Electric Generating Unit(s) is operated in parallel with the CAISO Controlled Grid.

9.6.4.2 Timely and Sustained Response. Interconnection Customer shall ensure that the Electric Generating Units' real power response to sustained frequency deviations outside of the

deadband setting is automatically provided and shall begin immediately after frequency deviates outside of the deadband, and to the extent the Electric Generating Unit(s) has operating capability in the direction needed to correct the frequency deviation. Interconnection Customer shall not block or otherwise inhibit the ability of the governor or equivalent controls to respond and shall ensure that the response is not inhibited, except under certain operational constraints including, but not limited to, ambient temperature limitations, physical energy limitations, outages of mechanical equipment, or regulatory requirements. The Electric Generating Unit(s) shall sustain the real power response at least until system frequency returns to a value within the deadband setting of the governor or equivalent controls. A FERC-approved Applicable Reliability Standard with equivalent or more stringent requirements shall supersede the above requirements.

9.6.4.3 Exemptions. Large Generating Facilities that are regulated by the Nuclear Regulatory Commission shall be exempt from Sections 9.6.4, 9.6.4.1, and 9.6.4.2 of this LGIA. Large Generating Facilities that are behind-the-meter generation that is sized-to-load (i.e., the thermal load and the generation are near-balanced in real-time operation and the generation is primarily controlled to maintain the unique thermal, chemical, or mechanical output necessary for the operating requirements of its host facility) shall be required to install primary frequency response capability in accordance with the droop and deadband capability requirements specified in Section 9.6.4, but shall be otherwise exempt from the operating requirements in Sections 9.6.4, 9.6.4.1, 9.6.4.2, and 9.6.4.4 of this LGIA.

9.6.4.4 Electric Storage Resources. Interconnection Customer interconnecting an electric storage resource shall establish an operating range in Appendix C of this LGIA that specifies a minimum state of charge and a maximum state of charge between which the electric storage resource will be required to provide primary frequency response consistent with the conditions set forth in Sections 9.6.4, 9.6.4.1, 9.6.4.2, and 9.6.4.3 of this LGIA. Appendix C shall specify whether the operating range is static or dynamic, and shall consider: (1) the expected magnitude of frequency deviations in the interconnection; (2) the expected duration that system frequency will remain outside of the deadband parameter in the interconnection; (3) the expected incidence of frequency deviations outside of the deadband parameter in the interconnection; (4) the physical capabilities of the electric storage resource; (5) operational limitations of the electric storage resource due to manufacturer specifications; and (6) any other relevant

factors agreed to by the CAISO and Interconnection Customer, and in consultation with the relevant transmission owner or balancing authority as appropriate. If the operating range is dynamic, then Appendix C must establish how frequently the operating range will be reevaluated and the factors that may be considered during its reevaluation.

Interconnection Customer's electric storage resource is required to provide timely and sustained primary frequency response consistent with Section 9.6.4.2 of this LGIA when it is online and dispatched to inject electricity to the CAISO Controlled Grid and/or receive electricity from the Participating TO's Transmission System or the CAISO Controlled Grid. This excludes circumstances when the electric storage resource is not dispatched to inject electricity to the CAISO Controlled Grid and/or dispatched to receive electricity from the Participating TO's Transmission system or the CAISO Controlled Grid. If Interconnection Customer's electric storage resource is charging at the time of a frequency deviation outside of its deadband parameter, it is to increase (for over-frequency deviations) or decrease (for under-frequency deviations) the rate at which it is charging in accordance with its droop parameter. Interconnection Customer's electric storage resource is not required to change from charging to discharging, or vice versa, unless the response necessitated by the droop and deadband settings requires it to do so and it is technically capable of making such a transition.

9.7 Outages and Interruptions.

9.7.1 Outages.

9.7.1.1 Outage Authority and Coordination. Each Party may in accordance with Good Utility Practice in coordination with the other Parties remove from service any of its respective Interconnection Facilities or Network Upgrades that may impact another Party's facilities as necessary to perform maintenance or testing or to install or replace equipment. Absent an Emergency Condition, the Party scheduling a removal of such facility(ies) from service will use Reasonable Efforts to schedule such removal on a date and time mutually acceptable to all Parties. In all circumstances any Party planning to remove such facility(ies) from service shall use Reasonable Efforts to minimize the effect on the other Parties of such removal.

9.7.1.2 Outage Schedules. The CAISO shall post scheduled outages of CAISO Controlled Grid facilities in accordance with the provisions of the CAISO Tariff. The Interconnection Customer shall submit its planned maintenance schedules for the Large Generating Facility to the CAISO in accordance with the CAISO Tariff. The Interconnection Customer shall update its planned maintenance schedules in accordance with the CAISO Tariff. The CAISO may request the Interconnection Customer to reschedule its maintenance as necessary to maintain the reliability of the CAISO Controlled Grid in accordance with the CAISO Tariff. Such planned maintenance schedules and updates and changes to such schedules shall be provided by the Interconnection Customer to the Participating TO concurrently with their submittal to the CAISO. The CAISO shall compensate the Interconnection Customer for any additional direct costs that the Interconnection Customer incurs as a result of having to reschedule maintenance in accordance with the CAISO Tariff. The Interconnection Customer will not be eligible to receive compensation, if during the twelve (12) months prior to the date of the scheduled maintenance, the Interconnection Customer had modified its schedule of maintenance activities.

9.7.1.3 Outage Restoration. If an outage on a Party's Interconnection Facilities or Network Upgrades adversely affects another Party's operations or facilities, the Party that owns or controls the facility that is out of service shall use Reasonable Efforts to promptly restore such facility(ies) to a normal operating condition consistent with the nature of the outage. The Party that owns or controls the facility that is out of service shall provide the other Parties, to the extent such information is known, information on the nature of the Emergency Condition, if the outage is caused by an Emergency Condition, an estimated time of restoration, and any corrective actions required. Initial verbal notice shall be followed up as soon as practicable with written notice explaining the nature of the outage, if requested by a Party, which may be provided by e-mail or facsimile.

9.7.2 Interruption of Service. If required by Good Utility Practice to do so, the CAISO or the Participating TO may require the Interconnection Customer to interrupt or reduce deliveries of electricity if such delivery of electricity could adversely affect the CAISO's or the Participating TO's ability to perform such activities as are necessary to safely and reliably operate and maintain the Participating TO's electric system or the CAISO Controlled Grid. The following provisions shall apply to any interruption or reduction permitted under this Article 9.7.2:

9.7.2.1 The interruption or reduction shall continue only for so long as reasonably necessary under Good Utility Practice;

9.7.2.2 Any such interruption or reduction shall be made on an equitable, non-discriminatory basis with respect to all generating facilities directly connected to the CAISO Controlled Grid, subject to any conditions specified in this LGIA;

9.7.2.3 When the interruption or reduction must be made under circumstances which do not allow for advance notice, the CAISO or Participating TO, as applicable, shall notify the Interconnection Customer by telephone as soon as practicable of the reasons for the curtailment, interruption, or reduction, and, if known, its expected duration. Telephone notification shall be followed by written notification, if requested by the Interconnection Customer, as soon as practicable;

9.7.2.4 Except during the existence of an Emergency Condition, the CAISO or Participating TO shall notify the Interconnection Customer in advance regarding the timing of such interruption or reduction and further notify the Interconnection Customer of the expected duration. The CAISO or Participating TO shall coordinate with the Interconnection Customer using Good Utility Practice to schedule the interruption or reduction during periods of least impact to the Interconnection Customer, the CAISO, and the Participating TO;

9.7.2.5 The Parties shall cooperate and coordinate with each other to the extent necessary in order to restore the Large Generating Facility, Interconnection Facilities, the Participating TO's Transmission System, and the CAISO Controlled Grid to their normal operating state, consistent with system conditions and Good Utility Practice.

9.7.3 Under-Frequency and Over Frequency Conditions. The CAISO Controlled Grid is designed to automatically activate a load-shed program as required by Applicable Reliability Standards and the Applicable Reliability Council in the event of an under-frequency system disturbance. The Interconnection Customer shall implement under-frequency and over-frequency protection set points for the Large Generating Facility as required by Applicable Reliability Standards and the Applicable Reliability Council to ensure "ride through" capability. Large Generating Facility response to frequency deviations of pre-determined magnitudes, both under-frequency and over-frequency deviations, shall be studied and coordinated with the Participating TO and CAISO in accordance with Good Utility Practice. The term "ride through" as used herein shall mean

the ability of a Generating Facility to stay connected to and synchronized with the CAISO Controlled Grid during system disturbances within a range of under-frequency and over-frequency conditions, in accordance with Good Utility Practice. Asynchronous Generating Facilities shall be subject to frequency ride through capability requirements in accordance with Appendix H to this LGIA.

9.7.4 System Protection and Other Control Requirements.

9.7.4.1 System Protection Facilities. The Interconnection Customer shall, at its expense, install, operate and maintain System Protection Facilities as a part of the Large Generating Facility or the Interconnection Customer's Interconnection Facilities. The Participating TO shall install at the Interconnection Customer's expense any System Protection Facilities that may be required on the Participating TO's Interconnection Facilities or the Participating TO's Transmission System as a result of the interconnection of the Large Generating Facility and the Interconnection Customer's Interconnection Facilities.

9.7.4.2 The Participating TO's and Interconnection Customer's protection facilities shall be designed and coordinated with other systems in accordance with Applicable Reliability Standards, Applicable Reliability Council criteria, and Good Utility Practice.

9.7.4.3 The Participating TO and Interconnection Customer shall each be responsible for protection of its facilities consistent with Good Utility Practice.

9.7.4.4 The Participating TO's and Interconnection Customer's protective relay design shall incorporate the necessary test switches to perform the tests required in Article 6. The required test switches will be placed such that they allow operation of lockout relays while preventing breaker failure schemes from operating and causing unnecessary breaker operations and/or the tripping of the Interconnection Customer's Electric Generating Units.

9.7.4.5 The Participating TO and Interconnection Customer will test, operate and maintain System Protection Facilities in accordance with Good Utility Practice and, if applicable, the requirements of the Participating TO's Interconnection Handbook.

9.7.4.6 Prior to the in-service date, and again prior to the Commercial Operation Date, the Participating TO and Interconnection Customer or their agents shall perform a complete

calibration test and functional trip test of the System Protection Facilities. At intervals suggested by Good Utility Practice, the standards and procedures of the Participating TO, including, if applicable, the requirements of the Participating TO's Interconnection Handbook, and following any apparent malfunction of the System Protection Facilities, each Party shall perform both calibration and functional trip tests of its System Protection Facilities. These tests do not require the tripping of any in-service generation unit. These tests do, however, require that all protective relays and lockout contacts be activated.

9.7.5 Requirements for Protection. In compliance with Good Utility Practice and, if applicable, the requirements of the Participating TO's Interconnection Handbook, the Interconnection Customer shall provide, install, own, and maintain relays, circuit breakers and all other devices necessary to remove any fault contribution of the Large Generating Facility to any short circuit occurring on the Participating TO's Transmission System not otherwise isolated by the Participating TO's equipment, such that the removal of the fault contribution shall be coordinated with the protective requirements of the Participating TO's Transmission System. Such protective equipment shall include, without limitation, a disconnecting device with fault current-interrupting capability located between the Large Generating Facility and the Participating TO's Transmission System at a site selected upon mutual agreement (not to be unreasonably withheld, conditioned or delayed) of the Parties. The Interconnection Customer shall be responsible for protection of the Large Generating Facility and the Interconnection Customer's other equipment from such conditions as negative sequence currents, over- or under-frequency, sudden load rejection, over- or under-voltage, and generator loss-of-field. The Interconnection Customer shall be solely responsible to disconnect the Large Generating Facility and the Interconnection Customer's other equipment if conditions on the CAISO Controlled Grid could adversely affect the Large Generating Facility.

9.7.6 Power Quality. Neither the Participating TO's nor the Interconnection Customer's facilities shall cause excessive voltage flicker nor introduce excessive distortion to the sinusoidal voltage or current waves as defined by ANSI Standard C84.1-1989, in accordance with IEEE Standard 519, any applicable superseding electric industry standard, or any alternative Applicable Reliability Standard or Applicable Reliability Council standard. In the event of a conflict among ANSI Standard C84.1-1989, any applicable superseding electric industry standard, or any alternative Applicable Reliability Standard or Applicable Reliability Council standard, the alternative Applicable Reliability Standard or Applicable Reliability Council standard shall control.

- 9.8 Switching and Tagging Rules.** Each Party shall provide the other Parties a copy of its switching and tagging rules that are applicable to the other Parties' activities. Such switching and tagging rules shall be developed on a non-discriminatory basis. The Parties shall comply with applicable switching and tagging rules, as amended from time to time, in obtaining clearances for work or for switching operations on equipment.
- 9.9 Use of Interconnection Facilities by Third Parties.**
- 9.9.1 Purpose of Interconnection Facilities.** Except as may be required by Applicable Laws and Regulations, or as otherwise agreed to among the Parties, the Interconnection Facilities shall be constructed for the sole purpose of interconnecting the Large Generating Facility to the Participating TO's Transmission System and shall be used for no other purpose.
- 9.9.2 Third Party Users.** If required by Applicable Laws and Regulations or if the Parties mutually agree, such agreement not to be unreasonably withheld, to allow one or more third parties to use the Participating TO's Interconnection Facilities, or any part thereof, the Interconnection Customer will be entitled to compensation for the capital expenses it incurred in connection with the Interconnection Facilities based upon the pro rata use of the Interconnection Facilities by the Participating TO, all third party users, and the Interconnection Customer, in accordance with Applicable Laws and Regulations or upon some other mutually-agreed upon methodology. In addition, cost responsibility for ongoing costs, including operation and maintenance costs associated with the Interconnection Facilities, will be allocated between the Interconnection Customer and any third party users based upon the pro rata use of the Interconnection Facilities by the Participating TO, all third party users, and the Interconnection Customer, in accordance with Applicable Laws and Regulations or upon some other mutually agreed upon methodology. If the issue of such compensation or allocation cannot be resolved through such negotiations, it shall be submitted to FERC for resolution.
- 9.10 Disturbance Analysis Data Exchange.** The Parties will cooperate with one another in the analysis of disturbances to either the Large Generating Facility or the CAISO Controlled Grid by gathering and providing access to any information relating to any disturbance, including information from oscillography, protective relay targets, breaker operations and sequence of events records, and any disturbance information required by Good Utility Practice.

ARTICLE 10. MAINTENANCE

- 10.1 Participating TO Obligations.** The Participating TO shall maintain the Participating TO's Transmission System and the Participating TO's Interconnection Facilities in a safe and reliable manner and in accordance with this LGIA.
- 10.2 Interconnection Customer Obligations.** The Interconnection Customer shall maintain the Large Generating Facility and the Interconnection Customer's Interconnection Facilities in a safe and reliable manner and in accordance with this LGIA.
- 10.3 Coordination.** The Parties shall confer regularly to coordinate the planning, scheduling and performance of preventive and corrective maintenance on the Large Generating Facility and the Interconnection Facilities.
- 10.4 Secondary Systems.** The Participating TO and Interconnection Customer shall cooperate with the other Parties in the inspection, maintenance, and testing of control or power circuits that operate below 600 volts, AC or DC, including, but not limited to, any hardware, control or protective devices, cables, conductors, electric raceways, secondary equipment panels, transducers, batteries, chargers, and voltage and current transformers that directly affect the operation of a Party's facilities and equipment which may reasonably be expected to impact the other Parties. Each Party shall provide advance notice to the other Parties before undertaking any work on such circuits, especially on electrical circuits involving circuit breaker trip and close contacts, current transformers, or potential transformers.
- 10.5 Operating and Maintenance Expenses.** Subject to the provisions herein addressing the use of facilities by others, and except for operations and maintenance expenses associated with modifications made for providing interconnection or transmission service to a third party and such third party pays for such expenses, the Interconnection Customer shall be responsible for all reasonable expenses including overheads, associated with: (1) owning, operating, maintaining, repairing, and replacing the Interconnection Customer's Interconnection Facilities; and (2) operation, maintenance, repair and replacement of the Participating TO's Interconnection Facilities.

ARTICLE 11. PERFORMANCE OBLIGATION

- 11.1 Interconnection Customer's Interconnection Facilities.** The Interconnection Customer shall design, procure, construct, install, own and/or control the Interconnection Customer's Interconnection Facilities described in Appendix A at its sole expense.

- 11.2 Participating TO's Interconnection Facilities.** The Participating TO shall design, procure, construct, install, own and/or control the Participating TO's Interconnection Facilities described in Appendix A at the sole expense of the Interconnection Customer. Unless the Participating TO elects to fund the capital for the Participating TO's Interconnection Facilities, they shall be solely funded by the Interconnection Customer.
- 11.3 Network Upgrades and Distribution Upgrades.** The Participating TO shall design, procure, construct, install, and own the Network Upgrades and Distribution Upgrades described in Appendix A, except for Stand Alone Network Upgrades, which will be constructed, and if agreed to by the Parties owned by the Interconnection Customer, and Merchant Network Upgrades. The Interconnection Customer shall be responsible for all costs related to Distribution Upgrades. Network Upgrades shall be funded by the Interconnection Customer, which for Interconnection Customers processed under Section 6 of the GIDAP (in Queue Clusters) shall be in an amount determined pursuant to the methodology set forth in Section 6.3 of the GIDAP. This specific amount is set forth in Appendix G to this LGIA. For costs associated with Area Delivery Network Upgrades, any amounts set forth in Appendix G will be advisory estimates only, and will not operate to establishing any cap or Maximum Cost Exposure on the cost responsibility of the Interconnection Customer for Area Delivery Network Upgrades.
- 11.4 Transmission Credits.** No later than thirty (30) Calendar Days prior to the Commercial Operation Date, the Interconnection Customer may make a one-time election by written notice to the CAISO and the Participating TO to (a) receive Congestion Revenue Rights as defined in and as available under the CAISO Tariff at the time of the election in accordance with the CAISO Tariff, in lieu of a repayment of the cost of Network Upgrades in accordance with Article 11.4.1, and/or (b) decline all or part of a refund of the cost of Network Upgrades entitled to the Interconnection Customer in accordance with Article 11.4.1.

11.4.1 Repayment of Amounts Advanced for Network Upgrades.

11.4.1.1 Repayment of Amounts Advanced Regarding Non-Phased Generating Facilities

An Interconnection Customer with a non-Phased Generating Facility in Queue Cluster 5 or earlier, or an Interconnection Customer in the Independent Study Process or the Fast Track Process that has been tendered a Generator Interconnection Agreement before December 19, 2014, shall be entitled to a repayment for the Interconnection Customer's contribution to the cost of Network Upgrades commencing upon the Commercial Operation Date of its Generating Facility.

An Interconnection Customer with a non-Phased Generating Facility in Queue Cluster 6 or later, or an Interconnection Customer in the Independent Study Process or the Fast Track Process that has not been tendered an Interconnection Agreement before December 19, 2014, shall be entitled to repayment for the Interconnection Customer's contribution to the cost of Network Upgrades placed in service on or before the Commercial Operation Date of its Generating Facility, commencing upon the Commercial Operation Date of the Generating Facility. Repayment for the Interconnection Customer's contribution to the cost of Network Upgrades placed into service after the Commercial Operation Date of its Generating Facility shall, for each of these Network Upgrades, commence no later than the later of: (i) the first month of the calendar year following the year in which the Network Upgrade is placed into service or (ii) 90 days after the Network Upgrade is placed into service.

An Interconnection Customer subject to this Article 11.4.1.1 shall be entitled to repayment for its contribution to the cost of Network Upgrades as follows:

- (a) For Reliability Network Upgrades, the Interconnection Customer shall be entitled to a repayment of the amount paid by the Interconnection Customer for Reliability Network Upgrades as set forth in Appendix G, up to a maximum amount established in Section 14.3.2.1 of the GIDAP. For purposes of this determination, generating capacity will be based on the capacity of the Interconnection Customer's Generating Facility at the time it achieves Commercial Operation. To the extent that such repayment does not cover all of the costs of Interconnection Customer's Reliability Network Upgrades, the Interconnection Customer shall receive Merchant Transmission CRRs for that portion of its Reliability Network Upgrades that are not covered by cash repayment.
- (b) For Local Delivery Network Upgrades:
 - i. If the Interconnection Customer is an Option (B) Interconnection Customer and has been allocated and continues to be eligible to receive TP Deliverability pursuant to the GIDAP, the Interconnection Customer shall be entitled to repayment of a portion of the total amount paid to the Participating TO for the costs of Local Delivery

Network Upgrades for which it is responsible, as set forth in Appendix G. The repayment amount shall be determined by dividing the amount of TP Deliverability received by the amount of deliverability requested by the Interconnection Customer, and multiplying that percentage by the total amount paid to the Participating TO by the Interconnection Customer for Local Delivery Network Upgrades

- ii. If the Generating Facility is an Option (B) Generating Facility and has not been allocated any TP Deliverability, the Interconnection Customer shall not be entitled to repayment for the costs of Local Delivery Network Upgrades.
 - iii. If the Generating Facility is an Option (A) Generating Facility, the Interconnection Customer shall be entitled to a repayment equal to the total amount paid to the Participating TO for the costs of Local Delivery Network Upgrades for which it is responsible, as set forth in Appendix G.
- (c) For Area Delivery Network Upgrades, the Interconnection Customer shall not be entitled to repayment for the costs of Area Delivery Network Upgrades.
 - (d) If an Interconnection Customer having an Option (B) Generating Facility, and is eligible, to construct and own Network Upgrades pursuant to the Merchant Option set forth in Article 5.15 of this LGIA, then the Interconnection Customer shall not be entitled to any repayment pursuant to this LGIA.
 - (e) For Local Off-Peak Network Upgrades, the Interconnection Customer will be entitled to a repayment equal to the total amount paid to the Participating TO for the costs of Local Delivery Network Upgrades for which it is responsible, as set forth in Appendix G.

Unless an Interconnection Customer has provided written notice to the CAISO that it is declining all or part of such repayment, such amounts shall include any tax gross-up or other tax-related payments associated with Network Upgrades not refunded to the Interconnection Customer pursuant to Article 5.17.8 or otherwise, and shall be paid to the Interconnection Customer by the Participating TO on a

dollar-for-dollar basis either through (1) direct payments made on a levelized basis over the five-year period commencing on the applicable date as provided for in this Article 11.4.1.1; or (2) any alternative payment schedule that is mutually agreeable to the Interconnection Customer and Participating TO, provided that such amount is paid within five (5) years of the applicable commencement date. Notwithstanding the foregoing, if this LGIA terminates within five (5) years of the applicable commencement date, the Participating TO's obligation to pay refunds to the Interconnection Customer shall cease as of the date of termination.

- (f) Where the Interconnection Customer finances the construction of Network Upgrades for more than one Participating TO, the cost allocation, Interconnection Financial Security, and repayment will be conducted pursuant to Section 14.4.1 of the GIDAP, and set forth in Appendix G.

11.4.1.2 Repayment of Amounts Advanced Regarding Phased Generating Facilities

Upon the Commercial Operation Date of each phase of a Phased Generating Facility, the Interconnection Customer shall be entitled to a repayment equal to the Interconnection Customer's contribution to the cost of Network Upgrades for that completed phase for which the Interconnection Customer is responsible, as set forth in Appendix G, subject to the limitations specified in Article 11.4.1.1, if the following conditions are satisfied as described below:

- (a) The Generating Facility is capable of being constructed in phases;
- (b) The Generating Facility is specified in the LGIA as being constructed in phases;
- (c) The completed phase corresponds to one of the phases specified in the LGIA;
- (d) The phase has achieved Commercial Operation and the Interconnection Customer has tendered notice of the same pursuant to this LGIA;

- (e) All Parties to the LGIA have confirmed that the completed phase meets the requirements set forth in this LGIA and any other operating, metering, and interconnection requirements to permit generation output of the entire capacity of the completed phase as specified in this LGIA;
- (f) The Network Upgrades necessary for the completed phase to meet the desired level of deliverability are in service; and
- (g) The Interconnection Customer has posted one hundred (100) percent of the Interconnection Financial Security required for the Network Upgrades for all the phases of the Generating Facility (or if less than one hundred (100) percent has been posted, then all required Financial Security Instruments to the date of commencement of repayment).

Following satisfaction of these conditions (a) through (g), an Interconnection Customer in a Queue Cluster earlier than Queue Cluster 5, or an Interconnection Customer in the Independent Study Process or the Fast Track Process that has been tendered a Generator Interconnection Agreement before December 19, 2014, shall be entitled to receive a partial repayment of its financed cost responsibility, to the extent that it is otherwise eligible for such repayment per Article 11.4.1.1, in an amount equal to the percentage of the Generating Facility declared to be in Commercial Operation multiplied by the cost of the Network Upgrades associated with the completed phase. The Interconnection Customer shall be entitled to repayment in this manner for each completed phase until the entire Generating Facility is completed.

Following satisfaction of these conditions (a) through (e) and (g), an Interconnection Customer in Queue Cluster 6 or a later Queue Cluster, or an Interconnection Customer in the Independent Study Process or the Fast Track Process that has not been tendered a Generator Interconnection Agreement before December 19, 2014, shall be entitled to receive a repayment of its financed cost responsibility for the Network Upgrades associated with the completed phase that have been placed in service. The Interconnection Customer shall be entitled to repayment in this manner for each completed phase until the entire Generating Facility is completed. With respect to any Network Upgrades necessary for a completed phase to meet its desired level of deliverability that are not in service by the time the phase achieves Commercial Operation, repayment for each such Network Upgrade will commence no later than the later of: (i) the first month of the calendar year following the year in which the Network Upgrade is

placed into service or (ii) 90 days after the Network Upgrade is placed into service.

A reduction in the electrical output (MW capacity) of the Generating Facility pursuant to the CAISO Tariff shall not diminish the Interconnection Customer's right to repayment pursuant to this LGIA Article 11.4.1.2. If the LGIA includes a partial termination provision and the partial termination right has been exercised with regard to a phase that has not been built, then the Interconnection Customer's eligibility for repayment under this Article 11.4.1.2 as to the remaining phases shall not be diminished. If the Interconnection Customer completes one or more phases and then breaches the LGIA, the Participating TO and the CAISO shall be entitled to offset any losses or damages resulting from the Breach against any repayments made for Network Upgrades related to the completed phases.

Any repayment amount provided pursuant to this Article 11.4.1.2 shall include any tax gross-up or other tax-related payments associated with Network Upgrades not refunded to the Interconnection Customer pursuant to Article 5.17.8 or otherwise, and shall be paid to the Interconnection Customer by the Participating TO on a dollar-for-dollar basis either through (1) direct payments made on a levelized basis over the five-year period commencing on the applicable as provided for in this Article 11.4.1.2; or (2) any alternative payment schedule that is mutually agreeable to the Interconnection Customer and Participating TO, provided that such amount is paid within five (5) years of the applicable commencement date. Notwithstanding the foregoing, if this LGIA terminates within five (5) years of the applicable commencement date, the Participating TO's obligation to pay refunds to the Interconnection Customer shall cease as of the date of termination.

11.4.1.3 Interest Payments and Assignment Rights

Any phased or non-phased repayment shall include interest calculated in accordance with the methodology set forth in FERC's regulations at 18 C.F.R. §35.19a(a)(2)(iii) from the date of any payment for Network Upgrades through the date on which the Interconnection Customer receives a repayment of such payment. Interest shall continue to accrue on the repayment obligation so long as this LGIA is in effect. The Interconnection Customer may assign such repayment rights to any entity.

11.4.1.4 Failure to Achieve Commercial Operation

If the Large Generating Facility fails to achieve Commercial Operation, but it or another generating facility is later constructed and makes use of the Network Upgrades, the Participating TO shall at that time reimburse Interconnection Customer for the amounts advanced for the Network Upgrades. Before any such reimbursement can occur, the Interconnection Customer, or the entity that ultimately constructs the generating facility, if different, is responsible for identifying and demonstrating to the Participating TO the appropriate entity to which reimbursement must be made in order to implement the intent of this reimbursement obligation.

11.4.2 Special Provisions for Affected Systems. The Interconnection Customer shall enter into an agreement with the owner of the Affected System and/or other affected owners of portions of the CAISO Controlled Grid, as applicable, in accordance with the GIDAP. Such agreement shall specify the terms governing payments to be made by the Interconnection Customer to the owner of the Affected System and/or other affected owners of portions of the CAISO Controlled Grid as well as the repayment by the owner of the Affected System and/or other affected owners of portions of the CAISO Controlled Grid. In no event shall the Participating TO be responsible for the repayment for any facilities that are not part of the Participating TO's Transmission System. In the event the Participating TO is a joint owner with an Affected System or with any other co-owner of a facility affected by the Large Generating Facility, the Participating TO's obligation to reimburse the Interconnection Customer for payments made to address the impacts of the Large Generating Facility on the system shall not exceed the proportionate amount of the cost of any upgrades attributable to the proportion of the jointly-owned facility owned by the Participating TO.

11.4.3 Notwithstanding any other provision of this LGIA, nothing herein shall be construed as relinquishing or foreclosing any rights, including but not limited to firm transmission rights, capacity rights, Congestion Revenue Rights, or transmission credits, that the Interconnection Customer shall be entitled to, now or in the future under any other agreement or tariff as a result of, or otherwise associated with, the transmission capacity, if any, created by the Network Upgrades, including the right to obtain cash reimbursements, merchant transmission Congestion Revenue Rights in accordance with Section 36.11 of the CAISO Tariff, or transmission credits for transmission service that is not associated with the Large Generating Facility.



11.5 Provision of Interconnection Financial Security. The Interconnection Customer is obligated to provide all necessary Interconnection Financial Security required under Section 11 of the GIDAP in a manner acceptable under Section 11 of the GIDAP. Failure by the Interconnection Customer to timely satisfy the GIDAP's requirements for the provision of Interconnection Financial Security shall be deemed a breach of this Agreement and a condition of Default of this Agreement.

11.5.1 Notwithstanding any other provision of this Agreement for notice of Default and opportunity to cure such Default, the CAISO or the Participating TO shall provide the Interconnection Customer with written notice of any Default due to timely failure to post Interconnection Financial Security, and the Interconnection Customer shall have five (5) Business Days from the date of such notice to cure such Default by posting the required Interconnection Financial Security. If the Interconnection Customer fails to cure the Default, then this Agreement shall be deemed terminated.

11.6 Interconnection Customer Compensation. If the CAISO requests or directs the Interconnection Customer to provide a service pursuant to Articles 9.6.3 (Payment for Reactive Power) or 13.5.1 of this LGIA, the CAISO shall compensate the Interconnection Customer in accordance with the CAISO Tariff.

11.6.1 Interconnection Customer Compensation for Actions During Emergency Condition. The CAISO shall compensate the Interconnection Customer in accordance with the CAISO Tariff for its provision of real and reactive power and other Emergency Condition services that the Interconnection Customer provides to support the CAISO Controlled Grid during an Emergency Condition in accordance with Article 11.6.

ARTICLE 12. INVOICE

12.1 General. The Participating TO shall submit to the Interconnection Customer, on a monthly basis, invoices of amounts due pursuant to this LGIA for the preceding month. Each invoice shall state the month to which the invoice applies and fully describe the services and equipment provided. The Parties may discharge mutual debts and payment obligations due and owing to each other on the same date through netting, in which case all amounts a Party owes to the other Party under this LGIA, including interest payments or credits, shall be netted so that only the net amount remaining due shall be paid by the owing Party. Notwithstanding the foregoing, any invoices between the CAISO and another Party shall be submitted and paid in accordance with the CAISO Tariff.

12.2 Final Invoice. As soon as reasonably practicable, but within twelve months after completion of the construction of the Participating TO's Interconnection Facilities, Network Upgrades, and Distribution Upgrades, the Participating TO shall provide

an invoice of the final cost of the construction of the Participating TO's Interconnection Facilities, Network Upgrades, and Distribution Upgrades, and shall set forth such costs in sufficient detail to enable the Interconnection Customer to compare the actual costs with the estimates and to ascertain deviations, if any, from the cost estimates. With respect to costs associated with the Participating TO's Interconnection Facilities and Distribution Upgrades, the Participating TO shall refund to the Interconnection Customer any amount by which the actual payment by the Interconnection Customer for estimated costs exceeds the actual costs of construction within thirty (30) Calendar Days of the issuance of such final construction invoice; or, in the event the actual costs of construction exceed the Interconnection Customer's actual payment for estimated costs, then the Interconnection Customer shall pay to the Participating TO any amount by which the actual costs of construction exceed the actual payment by the Interconnection Customer for estimated costs within thirty (30) Calendar Days of the issuance of such final construction invoice. With respect to costs associated with Network Upgrades, the Participating TO shall refund to the Interconnection Customer any amount by which the actual payment by the Interconnection Customer for estimated costs exceeds the actual costs of construction multiplied by the Interconnection Customer's percentage share of those costs, as set forth in Appendix G to this LGIA within thirty (30) Calendar Days of the issuance of such final construction invoice. In the event the actual costs of construction multiplied by the Interconnection Customer's percentage share of those costs exceed the Interconnection Customer's actual payment for estimated costs, then the Participating TO shall recover such difference through its transmission service rates.

12.3 Payment. Invoices shall be rendered to the Interconnection Customer at the address specified in Appendix F. The Interconnection Customer shall pay, or Participating TO shall refund, the amounts due within thirty (30) Calendar Days of the Interconnection Customer's receipt of the invoice. All payments shall be made in immediately available funds payable to the Interconnection Customer or Participating TO, or by wire transfer to a bank named and account designated by the invoicing Interconnection Customer or Participating TO. Payment of invoices by any Party will not constitute a waiver of any rights or claims any Party may have under this LGIA.

12.4 Disputes. In the event of a billing dispute between the Interconnection Customer and the Participating TO, the Participating TO and the CAISO shall continue to provide Interconnection Service under this LGIA as long as the Interconnection Customer: (i) continues to make all payments not in dispute; and (ii) pays to the Participating TO or into an independent escrow account the portion of the invoice in dispute, pending resolution of such dispute. If the Interconnection Customer fails to meet these two requirements for continuation of service, then the Participating TO may provide notice to the Interconnection Customer of a Default pursuant to Article 17. Within thirty (30) Calendar Days after the resolution of the dispute, the Party that owes money to the other Party

shall pay the amount due with interest calculated in accordance with the methodology set forth in FERC's Regulations at 18 C.F.R. § 35.19a(a)(2)(iii). Notwithstanding the foregoing, any billing dispute between the CAISO and another Party shall be resolved in accordance with the provisions of Article 27 of this LGIA.

ARTICLE 13. EMERGENCIES

13.1 [Reserved]

13.2 Obligations. Each Party shall comply with the Emergency Condition procedures of the CAISO, NERC, the Applicable Reliability Council, Applicable Reliability Standards, Applicable Laws and Regulations, and any emergency procedures set forth in this LGIA.

13.3 Notice. The Participating TO or the CAISO shall notify the Interconnection Customer promptly when it becomes aware of an Emergency Condition that affects the Participating TO's Interconnection Facilities or Distribution System or the CAISO Controlled Grid, respectively, that may reasonably be expected to affect the Interconnection Customer's operation of the Large Generating Facility or the Interconnection Customer's Interconnection Facilities. The Interconnection Customer shall notify the Participating TO and the CAISO promptly when it becomes aware of an Emergency Condition that affects the Large Generating Facility or the Interconnection Customer's Interconnection Facilities that may reasonably be expected to affect the CAISO Controlled Grid or the Participating TO's Interconnection Facilities. To the extent information is known, the notification shall describe the Emergency Condition, the extent of the damage or deficiency, the expected effect on the operation of the Interconnection Customer's or Participating TO's facilities and operations, its anticipated duration and the corrective action taken and/or to be taken. The initial notice shall be followed as soon as practicable with written notice, if requested by a Party, which may be provided by electronic mail or facsimile, or in the case of the CAISO may be publicly posted on the CAISO's internet web site.

13.4 Immediate Action. Unless, in the Interconnection Customer's reasonable judgment, immediate action is required, the Interconnection Customer shall obtain the consent of the CAISO and the Participating TO, such consent to not be unreasonably withheld, prior to performing any manual switching operations at the Large Generating Facility or the Interconnection Customer's Interconnection Facilities in response to an Emergency Condition declared by the Participating TO or CAISO or in response to any other emergency condition.

13.5 CAISO and Participating TO Authority.

13.5.1 General. The CAISO and Participating TO may take whatever actions or inactions, including issuance of dispatch instructions, with regard to the

CAISO Controlled Grid or the Participating TO's Interconnection Facilities or Distribution System they deem necessary during an Emergency Condition in order to (i) preserve public health and safety, (ii) preserve the reliability of the CAISO Controlled Grid or the Participating TO's Interconnection Facilities or Distribution System, (iii) limit or prevent damage, and (iv) expedite restoration of service.

The Participating TO and the CAISO shall use Reasonable Efforts to minimize the effect of such actions or inactions on the Large Generating Facility or the Interconnection Customer's Interconnection Facilities. The Participating TO or the CAISO may, on the basis of technical considerations, require the Large Generating Facility to mitigate an Emergency Condition by taking actions necessary and limited in scope to remedy the Emergency Condition, including, but not limited to, directing the Interconnection Customer to shut-down, start-up, increase or decrease the real or reactive power output of the Large Generating Facility; implementing a reduction or disconnection pursuant to Article 13.5.2; directing the Interconnection Customer to assist with black start (if available) or restoration efforts; or altering the outage schedules of the Large Generating Facility and the Interconnection Customer's Interconnection Facilities. Interconnection Customer shall comply with all of the CAISO's Dispatch Instructions and Operating Instructions and Participating TO's dispatch instructions or Operating Instructions concerning Large Generating Facility real power and reactive power output within the manufacturer's design limitations of the Large Generating Facility's equipment that is in service and physically available for operation at the time, in compliance with Applicable Laws and Regulations.

13.5.2 Reduction and Disconnection. The Participating TO or the CAISO may reduce Interconnection Service or disconnect the Large Generating Facility or the Interconnection Customer's Interconnection Facilities when such reduction or disconnection is necessary under Good Utility Practice due to Emergency Conditions. These rights are separate and distinct from any right of curtailment of the CAISO pursuant to the CAISO Tariff. When the CAISO or Participating TO can schedule the reduction or disconnection in advance, the CAISO or Participating TO shall notify the Interconnection Customer of the reasons, timing and expected duration of the reduction or disconnection. The CAISO or Participating TO shall coordinate with the Interconnection Customer using Good Utility Practice to schedule the reduction or disconnection during periods of least impact to the Interconnection Customer and the CAISO and Participating TO. Any reduction or disconnection shall continue only for so long as reasonably necessary under Good Utility Practice. The Parties shall cooperate with each other to restore the Large Generating Facility, the Interconnection Facilities, and the CAISO Controlled Grid to their normal operating state as soon as practicable consistent with Good Utility

Practice.

13.6 Interconnection Customer Authority. Consistent with Good Utility Practice, this LGIA, and the CAISO Tariff, the Interconnection Customer may take actions or inactions with regard to the Large Generating Facility or the Interconnection Customer's Interconnection Facilities during an Emergency Condition in order to (i) preserve public health and safety, (ii) preserve the reliability of the Large Generating Facility or the Interconnection Customer's Interconnection Facilities, (iii) limit or prevent damage, and (iv) expedite restoration of service. Interconnection Customer shall use Reasonable Efforts to minimize the effect of such actions or inactions on the CAISO Controlled Grid and the Participating TO's Interconnection Facilities. The CAISO and Participating TO shall use Reasonable Efforts to assist Interconnection Customer in such actions.

13.7 Limited Liability. Except as otherwise provided in Article 11.6.1 of this LGIA, no Party shall be liable to any other Party for any action it takes in responding to an Emergency Condition so long as such action is made in good faith and is consistent with Good Utility Practice.

ARTICLE 14. REGULATORY REQUIREMENTS AND GOVERNING LAWS

14.1 Regulatory Requirements. Each Party's obligations under this LGIA shall be subject to its receipt of any required approval or certificate from one or more Governmental Authorities in the form and substance satisfactory to the applying Party, or the Party making any required filings with, or providing notice to, such Governmental Authorities, and the expiration of any time period associated therewith. Each Party shall in good faith seek and use its Reasonable Efforts to obtain such other approvals. Nothing in this LGIA shall require the Interconnection Customer to take any action that could result in its inability to obtain, or its loss of, status or exemption under the Federal Power Act or the Public Utility Holding Company Act of 1935, as amended, or the Public Utility Regulatory Policies Act of 1978, or the Energy Policy Act of 2005.

14.2 Governing Law.

14.2.1 The validity, interpretation and performance of this LGIA and each of its provisions shall be governed by the laws of the state where the Point of Interconnection is located, without regard to its conflicts of law principles.

14.2.2 This LGIA is subject to all Applicable Laws and Regulations.

14.2.3 Each Party expressly reserves the right to seek changes in, appeal, or otherwise contest any laws, orders, rules, or regulations of a Governmental Authority.

ARTICLE 15. NOTICES

15.1 General. Unless otherwise provided in this LGIA, any notice, demand or request required or permitted to be given by a Party to another and any instrument required or permitted to be tendered or delivered by a Party in writing to another shall be effective when delivered and may be so given, tendered or delivered, by recognized national courier, or by depositing the same with the United States Postal Service with postage prepaid, for delivery by certified or registered mail, addressed to the Party, or personally delivered to the Party, at the address set out in Appendix F, Addresses for Delivery of Notices and Billings.

A Party must update the information in Appendix F as information changes. A Party may change the notice information in this LGIA by giving five (5) Business Days written notice prior to the effective date of the change. Such changes shall not constitute an amendment to this LGIA.

15.2 Billings and Payments. Billings and payments shall be sent to the addresses set out in Appendix F.

15.3 Alternative Forms of Notice. Any notice or request required or permitted to be given by a Party to another and not required by this LGIA to be given in writing may be so given by telephone, facsimile or e-mail to the telephone numbers and e-mail addresses set out in Appendix F.

15.4 Operations and Maintenance Notice. Each Party shall notify the other Parties in writing of the identity of the person(s) that it designates as the point(s) of contact with respect to the implementation of Articles 9 and 10.

ARTICLE 16. FORCE MAJEURE

16.1 Force Majeure.

16.1.1 Economic hardship is not considered a Force Majeure event.

16.1.2 No Party shall be considered to be in Default with respect to any obligation hereunder, (including obligations under Article 4), other than the obligation to pay money when due, if prevented from fulfilling such obligation by Force Majeure. A Party unable to fulfill any obligation hereunder (other than an obligation to pay money when due) by reason of Force Majeure shall give notice and the full particulars of such Force Majeure to the other Party in writing or by telephone as soon as reasonably possible after the occurrence of the cause relied upon. Telephone notices given pursuant to this Article shall be confirmed in writing as soon as reasonably possible and shall specifically state full particulars of the Force Majeure, the time and date when the Force Majeure occurred and when the Force Majeure is reasonably expected to cease. The Party affected shall exercise due

diligence to remove such disability with reasonable dispatch, but shall not be required to accede or agree to any provision not satisfactory to it in order to settle and terminate a strike or other labor disturbance.

ARTICLE 17. DEFAULT

17.1 Default.

17.1.1 General. No Default shall exist where such failure to discharge an obligation (other than the payment of money) is the result of Force Majeure as defined in this LGIA or the result of an act or omission of the other Party. Upon a Breach, the affected non-Breaching Party(ies) shall give written notice of such Breach to the Breaching Party. Except as provided in Articles 11.5.1 and 17.1.2, the Breaching Party shall have thirty (30) Calendar Days from receipt of the Default notice within which to cure such Breach; provided however, if such Breach is not capable of cure within thirty (30) Calendar Days, the Breaching Party shall commence such cure within thirty (30) Calendar Days after notice and continuously and diligently complete such cure within ninety (90) Calendar Days from receipt of the Default notice; and, if cured within such time, the Breach specified in such notice shall cease to exist.

17.1.2 Right to Terminate. If a Breach is not cured as provided in this Article, or if a Breach is not capable of being cured within the period provided for herein, the affected non-Breaching Party(ies) shall have the right to declare a Default and terminate this LGIA by written notice at any time until cure occurs, and be relieved of any further obligation hereunder and, whether or not such Party(ies) terminates this LGIA, to recover from the Breaching Party all amounts due hereunder, plus all other damages and remedies to which it is entitled at law or in equity. The provisions of this Article will survive termination of this LGIA.

ARTICLE 18. INDEMNITY, CONSEQUENTIAL DAMAGES, AND INSURANCE

18.1 Indemnity. Each Party shall at all times indemnify, defend, and hold the other Parties harmless from, any and all Losses arising out of or resulting from another Party's action or inactions of its obligations under this LGIA on behalf of the indemnifying Party, except in cases of gross negligence or intentional wrongdoing by the Indemnified Party.

18.1.1 Indemnified Party. If an Indemnified Party is entitled to indemnification under this Article 18 as a result of a claim by a third party, and the Indemnifying Party fails, after notice and reasonable opportunity to proceed under Article 18.1, to assume the defense of such claim, such Indemnified Party may at the expense of the Indemnifying Party contest,

settle or consent to the entry of any judgment with respect to, or pay in full, such claim.

18.1.2 Indemnifying Party. If an Indemnifying Party is obligated to indemnify and hold any Indemnified Party harmless under this Article 18, the amount owing to the Indemnified Party shall be the amount of such Indemnified Party's actual Loss, net of any insurance or other recovery.

18.1.3 Indemnity Procedures. Promptly after receipt by an Indemnified Party of any claim or notice of the commencement of any action or administrative or legal proceeding or investigation as to which the indemnity provided for in Article 18.1 may apply, the Indemnified Party shall notify the Indemnifying Party of such fact. Any failure of or delay in such notification shall not affect a Party's indemnification obligation unless such failure or delay is materially prejudicial to the indemnifying Party.

The Indemnifying Party shall have the right to assume the defense thereof with counsel designated by such Indemnifying Party and reasonably satisfactory to the Indemnified Party. If the defendants in any such action include one or more Indemnified Parties and the Indemnifying Party and if the Indemnified Party reasonably concludes that there may be legal defenses available to it and/or other Indemnified Parties which are different from or additional to those available to the Indemnifying Party, the Indemnified Party shall have the right to select separate counsel to assert such legal defenses and to otherwise participate in the defense of such action on its own behalf. In such instances, the Indemnifying Party shall only be required to pay the fees and expenses of one additional attorney to represent an Indemnified Party or Indemnified Parties having such differing or additional legal defenses.

The Indemnified Party shall be entitled, at its expense, to participate in any such action, suit or proceeding, the defense of which has been assumed by the Indemnifying Party. Notwithstanding the foregoing, the Indemnifying Party (i) shall not be entitled to assume and control the defense of any such action, suit or proceedings if and to the extent that, in the opinion of the Indemnified Party and its counsel, such action, suit or proceeding involves the potential imposition of criminal liability on the Indemnified Party, or there exists a conflict or adversity of interest between the Indemnified Party and the Indemnifying Party, in such event the Indemnifying Party shall pay the reasonable expenses of the Indemnified Party, and (ii) shall not settle or consent to the entry of any judgment in any action, suit or proceeding without the consent of the Indemnified Party, which shall not be unreasonably withheld, conditioned or delayed.

18.2 Consequential Damages. Other than the liquidated damages heretofore described in Article 5.3, in no event shall any Party be liable under any provision of this LGIA for any losses, damages, costs or expenses for any special, indirect, incidental, consequential, or punitive damages, including but not limited to loss of profit or revenue, loss of the use of equipment, cost of capital, cost of temporary equipment or services, whether based in whole or in part in contract, in tort, including negligence, strict liability, or any other theory of liability; provided, however, that damages for which a Party may be liable to another Party under another agreement will not be considered to be special, indirect, incidental, or consequential damages hereunder.

18.3 Insurance. As indicated below, the designated Party shall, at its own expense, maintain in force throughout the periods noted in this LGIA, and until released by the other Parties, the following minimum insurance coverages, with insurers rated no less than A- (with a minimum size rating of VII) by Bests' Insurance Guide and Key Ratings and authorized to do business in the state where the Point of Interconnection is located, except in the case of any insurance required to be carried by the CAISO, the State of California:

18.3.1 Workers' Compensation Insurance and Employers' Liability. The Participating TO and the Interconnection Customer shall maintain such coverage from the commencement of any Construction Activities providing statutory benefits for Workers Compensation coverage and coverage amounts of no less than [REDACTED] for employer's liability for each employee for bodily injury by accident and [REDACTED] for each employee for bodily injury by disease in accordance with the laws and regulations of the state in which the Point of Interconnection is located. The Participating TO shall provide the Interconnection Customer with evidence of such insurance coverage within thirty (30) Calendar Days of any request by the Interconnection Customer. The Interconnection Customer shall provide evidence of such insurance thirty (30) Calendar Days prior to entry by any employee or contractor or other person acting on the Interconnection Customer's behalf onto any construction site to perform any work related to the Interconnection Facilities or Generating Facility.

18.3.2 Commercial General Liability Insurance. The Participating TO and the Interconnection Customer shall maintain commercial general liability insurance coverage commencing within thirty (30) Calendar Days of the Effective Date of this LGIA, including coverage for premises and operations, bodily injury (including death), personal injury, property damage, products and completed operations coverage, coverage for explosion, collapse and underground hazards, independent contractors coverage, and (i) liability of Participating TO and the Interconnection Customer that would be imposed without the LGIA, or (ii) liability assumed by the Participating TO and the Interconnection Customer in a

contract or agreement that is an "insured contract" under commercial general liability insurance policy. Such insurance shall include no cross liability exclusions or separation of insured clause endorsement exclusions, with minimum limits of [REDACTED] per occurrence, [REDACTED] aggregate. If the activities of the Interconnection Customer are being conducted through the actions of an Affiliate, then the Interconnection Customer may satisfy the insurance requirements of this Section 18.3.2 by providing evidence of insurance coverage carried by such Affiliate and showing the Participating TO and the CAISO as an additional insured only with respect to the LGIA, together with the Interconnection Customer's written representation to the Participating TO and the CAISO that the insured Affiliate is conducting all of the necessary pre-construction work. Within thirty (30) Calendar Days prior to the entry of any person on behalf of the Interconnection Customer onto any construction site to perform work related to the Interconnection Facilities or Generating Facility, the Interconnection Customer shall replace any evidence of Affiliate Insurance with evidence of such insurance carried by the Interconnection Customer, naming the Participating TO and CAISO as additional insured only with respect to the LGIA.

18.3.3 Business Automobile Liability Insurance. Prior to the entry of any such vehicles on any construction site in connection with work done by or on behalf of the Interconnection Customer, the Interconnection Customer shall provide evidence of coverage of owned and non-owned and hired vehicles, trailers or semi-trailers designed for travel on public roads, with a minimum, combined single limit of [REDACTED] per occurrence for bodily injury, including death, and property damage. The Interconnection Customer shall include the Participating TO and the CAISO as additional insured with respect to the LGIA on any such policies.

18.3.4 Excess Liability Insurance. Commencing at the time of entry of any person on its behalf upon any construction site for the Network Upgrades, Interconnection Facilities, or Generating Facility, the Participating TO and the Interconnection Customer shall maintain Excess Liability insurance over and above the Employer's Liability Commercial General Liability and Business Automobile Liability Insurance coverage, with a minimum limit of [REDACTED] per occurrence, [REDACTED] aggregate. Such insurance carried by the Participating TO shall include the Interconnection Customer and CAISO as additional insured with respect to the LGIA, and such insurance carried by the Interconnection Customer shall include the Participating TO and CAISO as an additional insured with respect to the LGIA. The requirements of Section 18.3.2 and 18.3.4 may be met by any combination of general and excess

liability insurance.

- 18.3.5** The Commercial General Liability Insurance, Business Automobile Insurance and Excess Liability Insurance policies shall include the other Parties identified in the sections above, their parents, their subsidiaries, respective directors, officers, agents, servants and employees ("Other Party Group") and the CAISO as additional insured. All policies shall contain provisions whereby the insurers waive all rights of subrogation in accordance with the provisions of this LGIA against the Other Party Group. If any Party can reasonably demonstrate that coverage policies containing provisions for insurer waiver of subrogation rights, or advance notice are not commercially available, then the Parties shall meet and confer and mutually determine to (i) establish replacement or equivalent terms in lieu of subrogation or notice or (ii) waive the requirements that coverage(s) include such subrogation provision or require advance written notice from such insurers.
- 18.3.6** The Commercial General Liability Insurance, Business Automobile Liability Insurance and Excess Liability Insurance policies shall contain provisions that specify that the policies are primary and non-contributory. Each Party shall be responsible for its respective deductibles or self-insured retentions.
- 18.3.7** The Commercial General Liability Insurance, Business Automobile Liability Insurance and Excess Liability Insurance policies, if written on a Claims First Made Basis, shall be maintained in full force and effect for two (2) years after termination of this LGIA, which coverage may be in the form of extended reporting period coverage if agreed by the Parties.
- 18.3.8** [Not Used.]
- 18.3.9** Thirty (30) Calendar Days prior to the start of any work at the construction site related to Interconnection Facilities or Generating Facility under this LGIA, and as soon as practicable after the end of each fiscal year or at the renewal of the insurance policy and in any event within ninety (90) Calendar Days thereafter, the Participating TO and the Interconnection Customer shall provide a certificate of insurance for all insurance required in this LGIA, executed by each insurer or by an authorized representative of each insurer.
- 18.3.10** Notwithstanding the foregoing, each Party may self-insure
- a) to meet the minimum insurance requirements of Article 18.3.1, to the extent that it maintains a self-insurance program that is a qualified self-insurer within the state in which the Point of Interconnection is located, under the laws and regulations of such state; and

b) to meet the minimum insurance requirements of Articles 18.3.2 through 18.3.8 to the extent it maintains a self-insurance program; provided that, such Party's senior unsecured debt or issuer rating is BBB-, or better, as rated by Standard & Poor's and that its self-insurance program meets the minimum insurance requirements of Articles 18.3.2 through 18.3.8. For any period of time that a Party's senior unsecured debt rating and issuer rating are both unrated by Standard & Poor's or are both rated at less than BBB- by Standard & Poor's, such Party shall comply with the insurance requirements applicable to it under Articles 18.3.2 through 18.3.9.

c) in the event that a Party is permitted to self-insure pursuant to this Article 18.3.10, it shall notify the other Parties that it meets the requirements to self-insure and that its self-insurance program meets the minimum insurance requirements in a manner consistent with that specified in Article 18.3.9.

18.3.11 The Parties agree to report to each other in writing as soon as practical all accidents or occurrences resulting in injuries to any person, including death, and any property damage greater than [REDACTED], including within the scope of coverage of such insurance whether or not such coverage is sought.

ARTICLE 19. ASSIGNMENT

19.1 Assignment. This LGIA may be assigned by a Party only with the written consent of the other Parties; provided that a Party may assign this LGIA without the consent of the other Parties to any Affiliate of the assigning Party with an equal or greater credit rating and with the legal authority and operational ability to satisfy the obligations of the assigning Party under this LGIA; and provided further that the Interconnection Customer shall have the right to assign this LGIA, without the consent of the CAISO or Participating TO, for collateral security purposes to aid in providing financing for the Large Generating Facility, provided that the Interconnection Customer will promptly notify the CAISO and Participating TO of any such assignment. Any financing arrangement entered into by the Interconnection Customer pursuant to this Article will provide that prior to or upon the exercise of the secured party's, trustee's or mortgagee's assignment rights pursuant to said arrangement, the secured creditor, the trustee or mortgagee will notify the CAISO and Participating TO of the date and particulars of any such exercise of assignment right(s), including providing the CAISO and Participating TO with proof that it meets the requirements of Articles 11.5 and 18.3. Any attempted assignment that violates this Article is void and ineffective. Any assignment under this LGIA shall not relieve a Party of its obligations, nor shall a Party's obligations be enlarged, in whole or in part, by reason thereof. Where required, consent to assignment will not be unreasonably

withheld, conditioned or delayed.

The Interconnection Customer may assign Surplus Interconnection Service pursuant to Section 3.4 of the GIDAP. The CAISO, Participating TO, and original Interconnection Customer will work in good faith to amend this GIA to reflect the transfer of Surplus Interconnection Service before the execution of the assignee's GIA. The assignee must execute a separate GIA with the CAISO and Participating TO to memorialize its Interconnection Service.

ARTICLE 20. SEVERABILITY

- 20.1 Severability.** If any provision in this LGIA is finally determined to be invalid, void or unenforceable by any court or other Governmental Authority having jurisdiction, such determination shall not invalidate, void or make unenforceable any other provision, agreement or covenant of this LGIA; provided that if the Interconnection Customer (or any third party, but only if such third party is not acting at the direction of the Participating TO or CAISO) seeks and obtains such a final determination with respect to any provision of the Alternate Option (Article 5.1.2), or the Negotiated Option (Article 5.1.4), then none of the provisions of Article 5.1.2 or 5.1.4 shall thereafter have any force or effect and the Parties' rights and obligations shall be governed solely by the Standard Option (Article 5.1.1).

ARTICLE 21. COMPARABILITY

- 21.1 Comparability.** The Parties will comply with all applicable comparability and code of conduct laws, rules and regulations, as amended from time to time.

ARTICLE 22. CONFIDENTIALITY

- 22.1 Confidentiality.** Confidential Information shall include, without limitation, all information relating to a Party's technology, research and development, business affairs, and pricing, and any information supplied by any of the Parties to the other Parties prior to the execution of this LGIA.

Information is Confidential Information only if it is clearly designated or marked in writing as confidential on the face of the document, or, if the information is conveyed orally or by inspection, if the Party providing the information orally informs the Parties receiving the information that the information is confidential.

If requested by any Party, the other Parties shall provide in writing, the basis for asserting that the information referred to in this Article 22 warrants confidential treatment, and the requesting Party may disclose such writing to the appropriate Governmental Authority. Each Party shall be responsible for the costs associated with affording confidential treatment to its information.

22.1.1 Term. During the term of this LGIA, and for a period of three (3) years after the expiration or termination of this LGIA, except as otherwise provided in this Article 22, each Party shall hold in confidence and shall not disclose to any person Confidential Information.

22.1.2 Scope. Confidential Information shall not include information that the receiving Party can demonstrate: (1) is generally available to the public other than as a result of a disclosure by the receiving Party; (2) was in the lawful possession of the receiving Party on a non-confidential basis before receiving it from the disclosing Party; (3) was supplied to the receiving Party without restriction by a third party, who, to the knowledge of the receiving Party after due inquiry, was under no obligation to the disclosing Party to keep such information confidential; (4) was independently developed by the receiving Party without reference to Confidential Information of the disclosing Party; (5) is, or becomes, publicly known, through no wrongful act or omission of the receiving Party or Breach of this LGIA; or (6) is required, in accordance with Article 22.1.7 of this LGIA, Order of Disclosure, to be disclosed by any Governmental Authority or is otherwise required to be disclosed by law or subpoena, or is necessary in any legal proceeding establishing rights and obligations under this LGIA. Information designated as Confidential Information will no longer be deemed confidential if the Party that designated the information as confidential notifies the other Parties that it no longer is confidential.

22.1.3 Release of Confidential Information. No Party shall release or disclose Confidential Information to any other person, except to its employees, consultants, Affiliates (limited by the Standards of Conduct requirements set forth in Part 358 of FERC's Regulations, 18 C.F.R. 358), subcontractors, or to parties who may be or considering providing financing to or equity participation with the Interconnection Customer, or to potential purchasers or assignees of the Interconnection Customer, on a need-to-know basis in connection with this LGIA, unless such person has first been advised of the confidentiality provisions of this Article 22 and has agreed to comply with such provisions. Notwithstanding the foregoing, a Party providing Confidential Information to any person shall remain primarily responsible for any release of Confidential Information in contravention of this Article 22.

22.1.4 Rights. Each Party retains all rights, title, and interest in the Confidential Information that each Party discloses to the other Parties. The disclosure by each Party to the other Parties of Confidential Information shall not be deemed a waiver by a Party or any other person or entity of the right to protect the Confidential Information from public disclosure.

22.1.5 No Warranties. The mere fact that a Party has provided Confidential Information does not constitute a warranty or representation as to its accuracy or completeness. In addition, by supplying Confidential Information, no Party obligates itself to provide any particular information or Confidential Information to the other Parties nor to enter into any further agreements or proceed with any other relationship or joint venture.

22.1.6 Standard of Care. Each Party shall use at least the same standard of care to protect Confidential Information it receives as it uses to protect its own Confidential Information from unauthorized disclosure, publication or dissemination. Each Party may use Confidential Information solely to fulfill its obligations to the other Parties under this LGIA or its regulatory requirements.

22.1.7 Order of Disclosure. If a court or a Government Authority or entity with the right, power, and apparent authority to do so requests or requires any Party, by subpoena, oral deposition, interrogatories, requests for production of documents, administrative order, or otherwise, to disclose Confidential Information, that Party shall provide the other Parties with prompt notice of such request(s) or requirement(s) so that the other Parties may seek an appropriate protective order or waive compliance with the terms of this LGIA. Notwithstanding the absence of a protective order or waiver, the Party may disclose such Confidential Information which, in the opinion of its counsel, the Party is legally compelled to disclose. Each Party will use Reasonable Efforts to obtain reliable assurance that confidential treatment will be accorded any Confidential Information so furnished.

22.1.8 Termination of Agreement. Upon termination of this LGIA for any reason, each Party shall, within ten (10) Calendar Days of receipt of a written request from another Party, use Reasonable Efforts to destroy, erase, or delete (with such destruction, erasure, and deletion certified in writing to the other Party) or return to the other Party, without retaining copies thereof, any and all written or electronic Confidential Information received from the other Party.

22.1.9 Remedies. The Parties agree that monetary damages would be inadequate to compensate a Party for another Party's Breach of its obligations under this Article 22. Each Party accordingly agrees that the other Parties shall be entitled to equitable relief, by way of injunction or otherwise, if the first Party Breaches or threatens to Breach its obligations under this Article 22, which equitable relief shall be granted without bond or proof of damages, and the receiving Party shall not plead in defense that there would be an adequate remedy at law. Such remedy shall not be deemed an exclusive remedy for the Breach of this Article 22, but shall be in addition to all other remedies available at law or in equity. The Parties

further acknowledge and agree that the covenants contained herein are necessary for the protection of legitimate business interests and are reasonable in scope. No Party, however, shall be liable for indirect, incidental, or consequential or punitive damages of any nature or kind resulting from or arising in connection with this Article 22.

22.1.10 Disclosure to FERC, its Staff, or a State. Notwithstanding anything in this Article 22 to the contrary, and pursuant to 18 C.F.R. section 1b.20, if FERC or its staff, during the course of an investigation or otherwise, requests information from one of the Parties that is otherwise required to be maintained in confidence pursuant to this LGIA, the Party shall provide the requested information to FERC or its staff, within the time provided for in the request for information. In providing the information to FERC or its staff, the Party must, consistent with 18 C.F.R. section 388.112, request that the information be treated as confidential and non-public by FERC and its staff and that the information be withheld from public disclosure. Parties are prohibited from notifying the other Parties to this LGIA prior to the release of the Confidential Information to FERC or its staff. The Party shall notify the other Parties to the LGIA when it is notified by FERC or its staff that a request to release Confidential Information has been received by FERC, at which time any of the Parties may respond before such information would be made public, pursuant to 18 C.F.R. section 388.112. Requests from a state regulatory body conducting a confidential investigation shall be treated in a similar manner if consistent with the applicable state rules and regulations.

22.1.11 Subject to the exception in Article 22.1.10, Confidential Information shall not be disclosed by the other Parties to any person not employed or retained by the other Parties, except to the extent disclosure is (i) required by law; (ii) reasonably deemed by the disclosing Party to be required to be disclosed in connection with a dispute between or among the Parties, or the defense of litigation or dispute; (iii) otherwise permitted by consent of the other Parties, such consent not to be unreasonably withheld; or (iv) necessary to fulfill its obligations under this LGIA or as a transmission service provider or a Balancing Authority including disclosing the Confidential Information to an RTO or ISO or to a regional or national reliability organization. The Party asserting confidentiality shall notify the other Parties in writing of the information it claims is confidential. Prior to any disclosures of another Party's Confidential Information under this subparagraph, or if any third party or Governmental Authority makes any request or demand for any of the information described in this subparagraph, the disclosing Party agrees to promptly notify the other Party in writing and agrees to assert confidentiality and cooperate with the other Party in seeking to protect the Confidential Information from public disclosure by confidentiality agreement, protective order or other reasonable measures.

ARTICLE 23. ENVIRONMENTAL RELEASES

- 23.1** Each Party shall notify the other Parties, first orally and then in writing, of the release of any Hazardous Substances, any asbestos or lead abatement activities, or any type of remediation activities related to the Large Generating Facility or the Interconnection Facilities, each of which may reasonably be expected to affect the other Parties. The notifying Party shall: (i) provide the notice as soon as practicable, provided such Party makes a good faith effort to provide the notice no later than twenty-four hours after such Party becomes aware of the occurrence; and (ii) promptly furnish to the other Parties copies of any publicly available reports filed with any Governmental Authorities addressing such events.

ARTICLE 24. INFORMATION REQUIREMENTS

- 24.1 Information Acquisition.** The Participating TO and the Interconnection Customer shall submit specific information regarding the electrical characteristics of their respective facilities to each other as described below and in accordance with Applicable Reliability Standards.
- 24.2 Information Submission by Participating TO.** The initial information submission by the Participating TO shall occur no later than one hundred eighty (180) Calendar Days prior to Trial Operation and shall include the Participating TO's Transmission System information necessary to allow the Interconnection Customer to select equipment and meet any system protection and stability requirements, unless otherwise agreed to by the Participating TO and the Interconnection Customer. On a monthly basis the Participating TO shall provide the Interconnection Customer and the CAISO a status report on the construction and installation of the Participating TO's Interconnection Facilities and Network Upgrades, including, but not limited to, the following information: (1) progress to date; (2) a description of the activities since the last report; (3) a description of the action items for the next period; and (4) the delivery status of equipment ordered.
- 24.3 Updated Information Submission by Interconnection Customer.** The updated information submission by the Interconnection Customer, including manufacturer information, shall occur no later than one hundred eighty (180) Calendar Days prior to the Trial Operation. The Interconnection Customer shall submit a completed copy of the Electric Generating Unit data requirements contained in Appendix 1 to the GIDAP. It shall also include any additional information provided to the Participating TO and the CAISO for the Interconnection Studies. Information in this submission shall be the most current Electric Generating Unit design or expected performance data. Information submitted for stability models shall be compatible with the Participating TO and

CAISO standard models. If there is no compatible model, the Interconnection Customer will work with a consultant mutually agreed to by the Parties to develop and supply a standard model and associated information.

If the Interconnection Customer's data is materially different from what was originally provided to the Participating TO and the CAISO for the Interconnection Studies, then the Participating TO and the CAISO will conduct appropriate studies pursuant to the GIDAP to determine the impact on the Participating TO's Transmission System and affected portions of the CAISO Controlled Grid based on the actual data submitted pursuant to this Article 24.3. The Interconnection Customer shall not begin Trial Operation until such studies are completed and all other requirements of this LGIA are satisfied.

24.4 Information Supplementation. Prior to the Trial Operation date, the Parties shall supplement their information submissions described above in this Article 24 with any and all "as-built" Electric Generating Unit information or "as-tested" performance information that differs from the initial submissions or, alternatively, written confirmation that no such differences exist. The Interconnection Customer shall conduct tests on the Electric Generating Unit as required by Good Utility Practice such as an open circuit "step voltage" test on the Electric Generating Unit to verify proper operation of the Electric Generating Unit's automatic voltage regulator.

Unless otherwise agreed, the test conditions shall include: (1) Electric Generating Unit at synchronous speed; (2) automatic voltage regulator on and in voltage control mode; and (3) a five percent (5 percent) change in Electric Generating Unit terminal voltage initiated by a change in the voltage regulators reference voltage. The Interconnection Customer shall provide validated test recordings showing the responses of Electric Generating Unit terminal and field voltages. In the event that direct recordings of these voltages is impractical, recordings of other voltages or currents that mirror the response of the Electric Generating Unit's terminal or field voltage are acceptable if information necessary to translate these alternate quantities to actual Electric Generating Unit terminal or field voltages is provided. Electric Generating Unit testing shall be conducted and results provided to the Participating TO and the CAISO for each individual Electric Generating Unit in a station.

Subsequent to the Commercial Operation Date, the Interconnection Customer shall provide the Participating TO and the CAISO any information changes due to equipment replacement, repair, or adjustment. The Participating TO shall provide the Interconnection Customer any information changes due to equipment replacement, repair or adjustment in the directly connected substation or any adjacent Participating TO-owned substation that may affect the Interconnection Customer's Interconnection Facilities equipment ratings, protection or operating requirements. The Parties shall provide such information pursuant to Article 5.19.

ARTICLE 25. INFORMATION ACCESS AND AUDIT RIGHTS

- 25.1 Information Access.** Each Party (the “disclosing Party”) shall make available to the other Party information that is in the possession of the disclosing Party and is necessary in order for the other Party to: (i) verify the costs incurred by the disclosing Party for which the other Party is responsible under this LGIA; and (ii) carry out its obligations and responsibilities under this LGIA. The Parties shall not use such information for purposes other than those set forth in this Article 25.1 and to enforce their rights under this LGIA. Nothing in this Article 25 shall obligate the CAISO to make available to a Party any third party information in its possession or control if making such third party information available would violate a CAISO Tariff restriction on the use or disclosure of such third party information.
- 25.2 Reporting of Non-Force Majeure Events.** Each Party (the “notifying Party”) shall notify the other Parties when the notifying Party becomes aware of its inability to comply with the provisions of this LGIA for a reason other than a Force Majeure event. The Parties agree to cooperate with each other and provide necessary information regarding such inability to comply, including the date, duration, reason for the inability to comply, and corrective actions taken or planned to be taken with respect to such inability to comply. Notwithstanding the foregoing, notification, cooperation or information provided under this Article shall not entitle the Party receiving such notification to allege a cause for anticipatory breach of this LGIA.
- 25.3 Audit Rights.** Subject to the requirements of confidentiality under Article 22 of this LGIA, the Parties’ audit rights shall include audits of a Party’s costs pertaining to such Party’s performance or satisfaction of obligations owed to the other Party under this LGIA, calculation of invoiced amounts, the CAISO’s efforts to allocate responsibility for the provision of reactive support to the CAISO Controlled Grid, the CAISO’s efforts to allocate responsibility for interruption or reduction of generation on the CAISO Controlled Grid, and each such Party’s actions in an Emergency Condition.
- 25.3.1** The Interconnection Customer and the Participating TO shall each have the right, during normal business hours, and upon prior reasonable notice to the other Party, to audit at its own expense the other Party’s accounts and records pertaining to either such Party’s performance or either such Party’s satisfaction of obligations owed to the other Party under this LGIA. Subject to Article 25.3.2, any audit authorized by this Article shall be performed at the offices where such accounts and records are maintained and shall be limited to those portions of such accounts and records that relate to each such Party’s performance and satisfaction of obligations under this LGIA. Each such Party shall keep such accounts and records for a period equivalent to the audit rights periods described in Article 25.4.

25.3.2 Notwithstanding anything to the contrary in Article 25.3, each Party's rights to audit the CAISO's accounts and records shall be as set forth in Section 22.1 of the CAISO Tariff.

25.4 Audit Rights Periods.

25.4.1 Audit Rights Period for Construction-Related Accounts and Records.

Accounts and records related to the design, engineering, procurement, and construction of Participating TO's Interconnection Facilities, Network Upgrades, and Distribution Upgrades constructed by the Participating TO shall be subject to audit for a period of twenty-four months following the Participating TO's issuance of a final invoice in accordance with Article 12.2. Accounts and records related to the design, engineering, procurement, and construction of Participating TO's Interconnection Facilities and/or Stand Alone Network Upgrades constructed by the Interconnection Customer shall be subject to audit and verification by the Participating TO and the CAISO for a period of twenty-four months following the Interconnection Customer's issuance of a final invoice in accordance with Article 5.2(8).

25.4.2 Audit Rights Period for All Other Accounts and Records. Accounts and records related to a Party's performance or satisfaction of all obligations under this LGIA other than those described in Article 25.4.1 shall be subject to audit as follows: (i) for an audit relating to cost obligations, the applicable audit rights period shall be twenty-four months after the auditing Party's receipt of an invoice giving rise to such cost obligations; and (ii) for an audit relating to all other obligations, the applicable audit rights period shall be twenty-four months after the event for which the audit is sought; provided that each Party's rights to audit the CAISO's accounts and records shall be as set forth in Section 22.1 of the CAISO Tariff.

25.5 Audit Results. If an audit by the Interconnection Customer or the Participating TO determines that an overpayment or an underpayment has occurred with respect to the other Party, a notice of such overpayment or underpayment shall be given to the other Party together with those records from the audit which supports such determination. The Party that is owed payment shall render an invoice to the other Party and such invoice shall be paid pursuant to Article 12 hereof.

25.5.1 Notwithstanding anything to the contrary in Article 25.5, the Interconnection Customer's and Participating TO's rights to audit the CAISO's accounts and records shall be as set forth in Section 22.1 of the CAISO Tariff, and the CAISO's process for remedying an overpayment or underpayment shall be as set forth in the CAISO Tariff.

ARTICLE 26. SUBCONTRACTORS

- 26.1 General.** Nothing in this LGIA shall prevent a Party from utilizing the services of any subcontractor as it deems appropriate to perform its obligations under this LGIA; provided, however, that each Party shall require its subcontractors to comply with all applicable terms and conditions of this LGIA in providing such services and each Party shall remain primarily liable to the other Party for the performance of such subcontractor.
- 26.2 Responsibility of Principal.** The creation of any subcontract relationship shall not relieve the hiring Party of any of its obligations under this LGIA. The hiring Party shall be fully responsible to the other Parties for the acts or omissions of any subcontractor the hiring Party hires as if no subcontract had been made; provided, however, that in no event shall the CAISO or Participating TO be liable for the actions or inactions of the Interconnection Customer or its subcontractors with respect to obligations of the Interconnection Customer under Article 5 of this LGIA. Any applicable obligation imposed by this LGIA upon the hiring Party shall be equally binding upon, and shall be construed as having application to, any subcontractor of such Party.
- 26.3 No Limitation by Insurance.** The obligations under this Article 26 will not be limited in any way by any limitation of subcontractor's insurance.

ARTICLE 27. DISPUTES

All disputes arising out of or in connection with this LGIA whereby relief is sought by or from the CAISO shall be settled in accordance with the provisions of Article 13 of the CAISO Tariff, except that references to the CAISO Tariff in such Article 13 of the CAISO Tariff shall be read as references to this LGIA. Disputes arising out of or in connection with this LGIA not subject to provisions of Article 13 of the CAISO Tariff shall be resolved as follows:

- 27.1 Submission.** In the event either Party has a dispute, or asserts a claim, that arises out of or in connection with this LGIA or its performance, such Party (the "disputing Party") shall provide the other Party with written notice of the dispute or claim ("Notice of Dispute"). Such dispute or claim shall be referred to a designated senior representative of each Party for resolution on an informal basis as promptly as practicable after receipt of the Notice of Dispute by the other Party. In the event the designated representatives are unable to resolve the claim or dispute through unassisted or assisted negotiations within thirty (30) Calendar Days of the other Party's receipt of the Notice of Dispute, such claim or dispute may, upon mutual agreement of the Parties, be submitted to arbitration and resolved in accordance with the arbitration procedures set forth below. In the event the Parties do not agree to submit such claim or dispute to arbitration, each Party may exercise whatever rights and remedies it may have in equity or at law consistent with the terms of this LGIA.

27.2 External Arbitration Procedures. Any arbitration initiated under this LGIA shall be conducted before a single neutral arbitrator appointed by the Parties. If the Parties fail to agree upon a single arbitrator within ten (10) Calendar Days of the submission of the dispute to arbitration, each Party shall choose one arbitrator who shall sit on a three-member arbitration panel. The two arbitrators so chosen shall within twenty (20) Calendar Days select a third arbitrator to chair the arbitration panel. In either case, the arbitrators shall be knowledgeable in electric utility matters, including electric transmission and bulk power issues, and shall not have any current or past substantial business or financial relationships with any party to the arbitration (except prior arbitration). The arbitrator(s) shall provide each of the Parties an opportunity to be heard and, except as otherwise provided herein, shall conduct the arbitration in accordance with the Commercial Arbitration Rules of the American Arbitration Association (“Arbitration Rules”) and any applicable FERC regulations; provided, however, in the event of a conflict between the Arbitration Rules and the terms of this Article 27, the terms of this Article 27 shall prevail.

27.3 Arbitration Decisions. Unless otherwise agreed by the Parties, the arbitrator(s) shall render a decision within ninety (90) Calendar Days of appointment and shall notify the Parties in writing of such decision and the reasons therefor. The arbitrator(s) shall be authorized only to interpret and apply the provisions of this LGIA and shall have no power to modify or change any provision of this Agreement in any manner. The decision of the arbitrator(s) shall be final and binding upon the Parties, and judgment on the award may be entered in any court having jurisdiction. The decision of the arbitrator(s) may be appealed solely on the grounds that the conduct of the arbitrator(s), or the decision itself, violated the standards set forth in the Federal Arbitration Act or the Administrative Dispute Resolution Act. The final decision of the arbitrator(s) must also be filed with FERC if it affects jurisdictional rates, terms and conditions of service, Interconnection Facilities, or Network Upgrades.

27.4 Costs. Each Party shall be responsible for its own costs incurred during the arbitration process and for the following costs, if applicable: (1) the cost of the arbitrator chosen by the Party to sit on the three member panel and one half of the cost of the third arbitrator chosen; or (2) one half the cost of the single arbitrator jointly chosen by the Parties.

ARTICLE 28. REPRESENTATIONS, WARRANTIES AND COVENANTS

28.1 General. Each Party makes the following representations, warranties and covenants:

28.1.1 Good Standing. Such Party is duly organized, validly existing and in good standing under the laws of the state in which it is organized,

formed, or incorporated, as applicable; that it is qualified to do business in the state or states in which the Large Generating Facility, Interconnection Facilities and Network Upgrades owned by such Party, as applicable, are located; and that it has the corporate power and authority to own its properties, to carry on its business as now being conducted and to enter into this LGIA and carry out the transactions contemplated hereby and perform and carry out all covenants and obligations on its part to be performed under and pursuant to this LGIA.

- 28.1.2 Authority.** Such Party has the right, power and authority to enter into this LGIA, to become a Party hereto and to perform its obligations hereunder. This LGIA is a legal, valid and binding obligation of such Party, enforceable against such Party in accordance with its terms, except as the enforceability thereof may be limited by applicable bankruptcy, insolvency, reorganization or other similar laws affecting creditors' rights generally and by general equitable principles (regardless of whether enforceability is sought in a proceeding in equity or at law).
- 28.1.3 No Conflict.** The execution, delivery and performance of this LGIA does not violate or conflict with the organizational or formation documents, or bylaws or operating agreement, of such Party, or any judgment, license, permit, order, material agreement or instrument applicable to or binding upon such Party or any of its assets.
- 28.1.4 Consent and Approval.** Such Party has sought or obtained, or, in accordance with this LGIA will seek or obtain, each consent, approval, authorization, order, or acceptance by any Governmental Authority in connection with the execution, delivery and performance of this LGIA, and it will provide to any Governmental Authority notice of any actions under this LGIA that are required by Applicable Laws and Regulations.

ARTICLE 29. [RESERVED]

ARTICLE 30. MISCELLANEOUS

- 30.1 Binding Effect.** This LGIA and the rights and obligations hereof, shall be binding upon and shall inure to the benefit of the successors and assigns of the Parties hereto.
- 30.2 Conflicts.** In the event of a conflict between the body of this LGIA and any attachment, appendices or exhibits hereto, the terms and provisions of the body of this LGIA shall prevail and be deemed the final intent of the Parties.

- 30.3 Rules of Interpretation.** This LGIA, unless a clear contrary intention appears, shall be construed and interpreted as follows: (1) the singular number includes the plural number and vice versa; (2) reference to any person includes such person's successors and assigns but, in the case of a Party, only if such successors and assigns are permitted by this LGIA, and reference to a person in a particular capacity excludes such person in any other capacity or individually; (3) reference to any agreement (including this LGIA), document, instrument or tariff means such agreement, document, instrument, or tariff as amended or modified and in effect from time to time in accordance with the terms thereof and, if applicable, the terms hereof; (4) reference to any Applicable Laws and Regulations means such Applicable Laws and Regulations as amended, modified, codified, or reenacted, in whole or in part, and in effect from time to time, including, if applicable, rules and regulations promulgated thereunder; (5) unless expressly stated otherwise, reference to any Article, Section or Appendix means such Article of this LGIA or such Appendix to this LGIA, or such Section to the GIDAP or such Appendix to the GIDAP, as the case may be; (6) "hereunder", "hereof", "herein", "hereto" and words of similar import shall be deemed references to this LGIA as a whole and not to any particular Article or other provision hereof or thereof; (7) "including" (and with correlative meaning "include") means including without limiting the generality of any description preceding such term; and (8) relative to the determination of any period of time, "from" means "from and including", "to" means "to but excluding" and "through" means "through and including".
- 30.4 Entire Agreement.** This LGIA, including all Appendices and Schedules attached hereto, constitutes the entire agreement among the Parties with reference to the subject matter hereof, and supersedes all prior and contemporaneous understandings or agreements, oral or written, between or among the Parties with respect to the subject matter of this LGIA. There are no other agreements, representations, warranties, or covenants which constitute any part of the consideration for, or any condition to, any Party's compliance with its obligations under this LGIA.
- 30.5 No Third Party Beneficiaries.** This LGIA is not intended to and does not create rights, remedies, or benefits of any character whatsoever in favor of any persons, corporations, associations, or entities other than the Parties, and the obligations herein assumed are solely for the use and benefit of the Parties, their successors in interest and, where permitted, their assigns.
- 30.6 Waiver.** The failure of a Party to this LGIA to insist, on any occasion, upon strict performance of any provision of this LGIA will not be considered a waiver of any obligation, right, or duty of, or imposed upon, such Party.

Any waiver at any time by either Party of its rights with respect to this LGIA shall not be deemed a continuing waiver or a waiver with respect to any other failure to comply with any other obligation, right, duty of this LGIA. Termination or Default

of this LGIA for any reason by the Interconnection Customer shall not constitute a waiver of the Interconnection Customer's legal rights to obtain an interconnection from the Participating TO. Any waiver of this LGIA shall, if requested, be provided in writing.

- 30.7 Headings.** The descriptive headings of the various Articles of this LGIA have been inserted for convenience of reference only and are of no significance in the interpretation or construction of this LGIA.
- 30.8 Multiple Counterparts.** This LGIA may be executed in two or more counterparts, each of which is deemed an original but all constitute one and the same instrument.
- 30.9 Amendment.** The Parties may by mutual agreement amend this LGIA by a written instrument duly executed by all of the Parties. Such amendment shall become effective and a part of this LGIA upon satisfaction of all Applicable Laws and Regulations.
- 30.10 Modification by the Parties.** The Parties may by mutual agreement amend the Appendices to this LGIA by a written instrument duly executed by all of the Parties. Such amendment shall become effective and a part of this LGIA upon satisfaction of all Applicable Laws and Regulations.
- 30.11 Reservation of Rights.** The CAISO and Participating TO shall each have the right to make a unilateral filing with FERC to modify this LGIA pursuant to section 205 or any other applicable provision of the Federal Power Act and FERC's rules and regulations thereunder with respect to the following Articles and Appendices of this LGIA and with respect to any rates, terms and conditions, charges, classifications of service, rule or regulation covered by these Articles and Appendices:

Recitals, 1, 2.1, 2.2, 2.3, 2.4, 2.6, 3.1, 3.3, 4.1, 4.2, 4.3, 4.4, 5 preamble, 5.4, 5.7, 5.8, 5.9, 5.12, 5.13, 5.18, 5.19.1, 7.1, 7.2, 8, 9.1, 9.2, 9.3, 9.5, 9.6, 9.7, 9.8, 9.10, 10.3, 11.4, 12.1, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24.3, 24.4, 25.1, 25.2, 25.3 (excluding subparts), 25.4.2, 26, 28, 29, 30, Appendix D, Appendix F, Appendix G, and any other Article not reserved exclusively to the Participating TO or the CAISO below.

The Participating TO shall have the exclusive right to make a unilateral filing with FERC to modify this LGIA pursuant to section 205 or any other applicable provision of the Federal Power Act and FERC's rules and regulations thereunder with respect to the following Articles and Appendices of this LGIA and with respect to any rates, terms and conditions, charges, classifications of service, rule or regulation covered by these Articles and Appendices:

2.5, 5.1, 5.2, 5.3, 5.5, 5.6, 5.10, 5.11, 5.14, 5.15, 5.16, 5.17, 5.19 (excluding 5.19.1), 6, 7.3, 9.4, 9.9, 10.1, 10.2, 10.4, 10.5, 11.1, 11.2, 11.3, 11.5, 12.2, 12.3, 12.4, 24.1, 24.2, 25.3.1, 25.4.1, 25.5 (excluding 25.5.1), 27 (excluding preamble), Appendix A, Appendix B, Appendix C, and Appendix E.

The CAISO shall have the exclusive right to make a unilateral filing with FERC to modify this LGIA pursuant to section 205 or any other applicable provision of the Federal Power Act and FERC's rules and regulations thereunder with respect to the following Articles of this LGIA and with respect to any rates, terms and conditions, charges, classifications of service, rule or regulation covered by these Articles:

3.2, 4.5, 11.6, 25.3.2, 25.5.1, and 27 preamble.

The Interconnection Customer, the CAISO, and the Participating TO shall have the right to make a unilateral filing with FERC to modify this LGIA pursuant to section 206 or any other applicable provision of the Federal Power Act and FERC's rules and regulations thereunder; provided that each Party shall have the right to protest any such filing by another Party and to participate fully in any proceeding before FERC in which such modifications may be considered. Nothing in this LGIA shall limit the rights of the Parties or of FERC under sections 205 or 206 of the Federal Power Act and FERC's rules and regulations thereunder, except to the extent that the Parties otherwise mutually agree as provided herein.

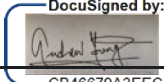
30.12 No Partnership. This LGIA shall not be interpreted or construed to create an association, joint venture, agency relationship, or partnership among the Parties or to impose any partnership obligation or partnership liability upon any Party. No Party shall have any right, power or authority to enter into any agreement or undertaking for, or act on behalf of, or to act as or be an agent or representative of, or to otherwise bind, another Party.

30.13 Joint and Several Obligations. Except as otherwise provided in this LGIA, the obligations of the CAISO, the Participating TO, and the Interconnection Customer are several, and are neither joint nor joint and several.

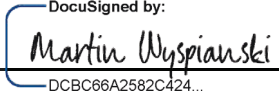


IN WITNESS WHEREOF, the Parties have executed this LGIA in multiple originals, each of which shall constitute and be an original effective agreement among the Parties.


Gonzaga Ridge Wind Farm, LLC

By:  CB46679A3EEC47F...
Name: Andrew Young
Title: COO
Date: 11/18/2022

Pacific Gas and Electric Company

By:  DCBC66A2582C424...
Name: Martin wyspianski
Title: VP Electric Engineering, Electric Asset Management
Date: 11/13/2022

California Independent System Operator Corporation

By:  9236FA183EA64FB...
Name: Neil Millar
Title: vice President Infrastructure and Ops Planning
Date: 11/7/2022

APPENDICES TO LGIA

Appendix A Interconnection Facilities, Network Upgrades and Distribution Upgrades

Appendix B Milestones

Appendix C Interconnection Details

Appendix D Security Arrangements Details

Appendix E Commercial Operation Date

Appendix F Addresses for Delivery of Notices and Billings

Appendix G Interconnection Customer's Share of Costs of Network Upgrades for Applicable Project Group

Appendix H Interconnection Requirements for an Asynchronous Generating Facility

APPENDIX A

Interconnection Facilities, Network Upgrades and Distribution Upgrades

1. Interconnection Facilities:

Gonzaga Ridge Wind Farm, LLC, the Option (A) Interconnection Customer (the “Interconnection Customer”, “IC”) submitted an Interconnection Request, dated April 15, 2020 for its 103.65 MW generating facility. Upon issuance of Phase I Interconnection Study report, dated February 12, 2021, the Interconnection Customer decided to elect Option (A) as the Deliverability option as defined in the CAISO Tariff under Section 7.2 of the GIDAP for proceeding further with the Phase II Interconnection Study process.

The Interconnection Facilities, as identified below, were derived from the Final Interconnection Study report, titled “*Appendix A Queue Cluster 13 Phase II Study, Final Report, dated November 22, 2021*” (“Phase II Study Report”), and as amended by an addendum titled “*Addendum #1 to the Appendix A Queue Cluster 13 Phase II Study, Final Report, dated December 29, 2021*” (“Addendum #1 Phase II Study Report”) for the interconnection of the proposed Gonzaga Hybrid project, an Option (A) Generating Facility, listed at Queue Position 1718 (“Q1718”) in the CAISO Controlled Grid Generation Queue.

The IC plans to install the Gonzaga Hybrid project as an expansion to the Q1378 Gonzaga Wind Farm project. The completed project, including the expansion, is in total comprised of 24 ~ type 3 wind turbines, each rated at 6.35 MVA and a Battery Energy Storage System (“BESS”) comprised of 19 Inverters each rated at 3.7295 MVA with a total project maximum gross output of 180 MW. The Q1718 expansion consists of 9 wind turbines, each rated at 6.35 MVA and a BESS comprised of 19 Inverters each rated at 3.7295 MVA, with a maximum gross output of 115.33 MW. Auxiliary load of 0.977 MW and estimated losses of 10.67MW, results in a net output of 103.65 MW to the CAISO Controlled Grid. The Large Generating Facility and associated Interconnection Facilities connects to the Participating TO (Pacific Gas and Electric Company (“PG&E”)) - owned Los Banos 70 kV Substation in Merced County, California (the “Project”).

Generator limiting scheme:

Since the Project has the capability of producing and delivering more MW at the Point of Interconnection than the requested amount of 103.65 MW, the Interconnection Customer will need to install or demonstrate that a control system will be put in place which will manage the Generating Facility output not to exceed the maximum requested net 103.65 MW at the Point of Interconnection, which takes into account the expected losses on the generation tie line.

CAISO RESOURCE ID: TBD**(a) The Interconnection Customer's Interconnection Facilities:**

1. A project collection substation
2. An approximately 15 mile-long 70 kV gen-tie shared with Q1378 (owned and maintained by IC)

(b) The Participating TO's Interconnection Facilities:**Table A-1**

Interconnection Facilities Work Elements	Description	Cost Allocation Factor	Estimated Cost (x1000)	Escalated Cost (x1000)* excluding ITC	Estimated Time (Months) to Construct
Generation Site:	<ul style="list-style-type: none"> Engineering Reviews, Metering, Pre-parallel Inspection, PM, RTU and testing 	■	■	■	16
Total Costs escalated to the operating year			■	■	

(c) Shared TO's Interconnection Facilities

Certain PTO interconnection facilities will be shared between the Interconnection Customer, Q1718, and the interconnection customer listed at Queue Position Q1378 (Shared Facilities). The upgrades are specified in detail the Q1378 LGIA, and summarized below.

- Expand the 70 kV double bus bay connection with (1) CB, Sw's, line relay, deadends, switches, CCVT's, and relay protection Engineering reviews, metering, pre-parallel inspection, & PM, RTU, DTT Rx, & IC support
- Engineering reviews, metering, pre-parallel inspection, & PM, RTU, DTT Rx, & IC support
- Install (1) TSP and (1) span of transmission line conductor, PG&E review, install approximately 500 FT of underground lines

The interconnection customers intend to apportion the cost sharing among themselves consistent with a separate agreement between the Interconnection Customer and the interconnection customer Q1378. Pursuant to its Large Generator Interconnection Agreement, interconnection customer (Q1378) is responsible for the full costs of constructing and operating the Shared Facilities. The operation and maintenance ("O&M") charges listed in the Large Generator Interconnection Agreement for interconnection customer Q1378 as monthly cost-of-ownership charges will be billed to interconnection customer Q1378.

The cost sharing shall apply to the ongoing operation & maintenance charges. However, the Interconnection Customer and interconnection customer Q1378 agree that each interconnection customer is jointly and severally liable for the full operation and maintenance ("O&M") charges listed as monthly cost-of-ownership charge for the Shared Facilities. In the event that interconnection customer Q1378 fails to pay in a timely manner its allocated share of the monthly cost-of-ownership charge for the Shared Facilities, then the Interconnection Customer will immediately pay, following five (5) Business Days' advance notice, that outstanding balance. The Interconnection Customer acknowledges and agrees that it shall be its responsibility, and not of the Participating TO or the CAISO, to seek any indemnity, reimbursement or other recourse against the non-paying interconnection customer for the share of its costs that the Interconnection Customer incurs on behalf of the non-paying interconnection customer.

In case the Interconnection Customer requests the Participating Transmission Owner ("PTO") to open the breaker to disconnect its project from the Participating TO's Interconnection Facilities, the Interconnection Customer shall provide, along with the request to the PTO and the CAISO, written documentation of having obtained concurrence for such disconnection from the other interconnection customer. Each interconnection customer will have control over its own breakers in their respective substations.

The Interconnection Customer understands and agrees that, regardless of any financial savings it may incur as a result of its use of the Shared Facilities, the Interconnection Customer bears full responsibility for posting of 100% of Interconnection Financial Security and cost responsibility for Participating TO's Interconnection Facilities listed in its LGIA, and that, accordingly it shall post Interconnection Financial Security for 100% of the costs of Participating TO's Interconnection Facilities.

If one of the interconnection customers sharing the Participating TO's Interconnection Facilities withdraw or terminate their project, the associated costs and the resulting O&M charges of the Participating TO's Interconnection Facilities will be reallocated to the remaining interconnection customer, provided that such reallocation shall not diminish joint and several liability as referenced above.

Should one or more of the interconnection customers achieve its In-Service Date before other interconnection customers sharing the Shared Facilities, those interconnection customer(s) shall be responsible for payment of the portion of the O&M charges of other interconnection customers until they achieve their respective In-Service Dates.

List of Participating TO's Interconnection Facilities and Estimated Cost

Table A-2

Interconnection Facility Element	Cost (Subject to ITCC)	Total Cost* (Excluding ITCC)
1. Substation Work		
(i) Engineering		
(ii) Land and Land Rights		
(iii) Project Management		
(iv) Property Improvements		
(v) Civil Foundations		
(vi) Station Equipment & Materials		
(vii) Removal		
(viii) Telecommunications		
(ix) Insulation and Coating and Various		
(x) Station Test Group		
(xi) Maintenance & Operations		
(xii) Metering		
(xiii) EPC Contracting Costs (Percentage of Total costs)		
2. Transmission Line Work		
(i) Engineering and Equipment		
Total Costs (2021 dollars)		
Total Costs escalated to operating year		

2. Security Amount for Estimated Tax Liability:

*The Interconnection Customer is not subject to Income Tax Component of Contribution ("ITCC"). ITCC is exempt for wholesale generators that meet the IRS Safe Harbor Provisions. PG&E currently does not require the Interconnection Customer to provide security to cover the potential tax liability on the Interconnection Facilities, Distribution Upgrades, and Network Upgrades per the IRS Safe Harbor Provisions (IRS Notice 88-129); however, PG&E reserves the right, on a nondiscriminatory basis, to require the Interconnection Customer to provide such security, in a form reasonably acceptable to PG&E as indicated in Article 5.17 of the LGIA, in an amount up to the cost consequences of any current tax liability. Upon request and within sixty (60) Calendar Days' notice, the Interconnection Customer shall provide PG&E such ITCC security or ITCC payment in the event that Safe Harbor Provisions have not been met, in the form requested by PG&E.

3. Real Properties, Transmission Project Licensing, and Environmental Health and Safety:

Participating TO shall obtain easements and/or acquire land, obtain licensing and permits, and perform all required environmental activities for the installation of the Participating TO's Interconnection Facilities, including any associated telecommunication equipment for the Gonzaga Hybrid project to Los Banos Substation.

- (i) **Metering:**
Install revenue metering cabinet, meters and appurtenant equipment required to meter the retail load at the Generating Facility. Notwithstanding that the metering cabinet and meters will be located on the Interconnection Customer's side of the Point of Change of Ownership, the Participating TO shall own, operate and maintain such facilities as part of the Participating TO's Interconnection Facilities.
- (ii) **Power System Control:**
Install one (1) Remote Terminal Unit ("RTU") at the Generating Facility to monitor typical generation elements such as MW, MVAR, terminal voltage and circuit breaker status for the Option (A) Generating Facility and plant auxiliary load, and transmit the information received thereby to the Participating TO's electric grid control center. Notwithstanding that the RTU will be located on the Interconnection Customer's side of the Point of Change of Ownership, the Participating TO shall own, operate and maintain the RTU as part of the Participating TO's Interconnection Facilities.

4. **Operation and Maintenance Costs:**

In accordance with Article 10.5 of the LGIA, commencing with the In-Service Date specified in this LGIA, the Interconnection Customer will also be responsible for the following on-going operation and maintenance charges based on estimated costs associated with the Participating TO's Interconnection Facilities. The Interconnection Customer shall make the payment either on a monthly basis or as Equivalent One-Time Charge payment as computed below.

Starting with the In-Service Date specified in the LGIA, the Interconnection Customer will be charged the monthly Interconnection Facilities Charge computed below until the Participating TO's completion of the invoice for final costs of constructing the Participating TO's Interconnection Facilities. Upon completion of the invoice for final costs, the operation and maintenance charges will be adjusted including the charges paid by the Interconnection Customer during the period between the In-Service Date and completion of the invoice for final costs based on the actual cost incurred by the Participating TO for the Participating TO's Interconnection Facilities.

- (i) **Interconnection Facilities Charge:**
The Interconnection Customer has elected the following payment option which is indicated by placing a check mark against it.
 - (a) ☒ **Monthly Cost-of-Ownership Charge**
Interconnection Facilities Charge = (Interconnection Customer-Financed Monthly Rate) x (Participating TO's Interconnection Facilities Cost)

**Table A-3**

		Estimated		Actual	
Effective	Interconnection Customer - Financed Monthly Rate	Participating TO's Interconnection Facilities Cost	Monthly Interconnection Facilities Charge	Participating TO's Interconnection Facilities Cost	Monthly Interconnection Facilities Charge
As of the In-Service Date	██████	██████	██████	[to be inserted after true-up pursuant to Article 12]	[to be inserted after true-up pursuant to Article 12]

OR

- (b) ☐ **Equivalent One-Time Charge**
(In lieu of recurring Monthly Cost-of-Ownership Charge)
= (Present Worth Factor) x (Months per Year) x (Monthly Interconnection Facilities Charge)

Table A-4

			Estimated		Actual	
Effective	Present Worth Factor	Months per Year	Monthly Interconnection Facilities Charge	Equivalent One-Time Charge	Participating TO's Interconnection Facilities Cost	Equivalent One-Time Charge
As of the In-Service Date	██████	██	██████	██████	[to be inserted after true-up pursuant to Article 12]	[to be inserted after true-up pursuant to Article 12]

5. Network Upgrades:

A brief description, estimated costs and time to construct the Reliability Network Upgrades, Local Delivery Network Upgrades and Area Delivery Network Upgrades required for the interconnection of this Project are provided in Appendix G of the LGIA.

6. Distribution Upgrades: None

¹ The current applicable monthly cost-of-ownership charge rate factor for Interconnection Customer- financed facilities. Where facilities displace PG&E's existing facilities, this allowance assures the exclusion of PG&E's existing ownership costs from Interconnection Customer's monthly cost-of -ownership charge or equivalent one-time charge. This cost-of-ownership charge rate factor is subject to change upon approval of PG&E's future filings with FERC.

² The current present worth factor or the perpetuity factor used in computing one-time payment of the cost of ownership charges is used to determine the equivalent one-time payment. This financial factor is the reciprocal of PG&E's after-tax rate of its return on rate base ("ROR"). The after-tax ROR is calculated by the Financial Planning & Analysis Department of PG&E and is established based on the ROR.

7. Point of Change of Ownership:

The Point of Change of Ownership (“POCO”), will be at the dead-end structure of the Interconnection Customer’s tap line outside of the Los Banos 70 kV Substation, as shown in Appendix C.

8. Point of Interconnection:

The Point of Interconnection (“POI”) of the Project will be at the Los Banos 70 kV Substation, as shown in Appendix C.

9. Transmission Credits:

Pursuant to Article 11.4 of the LGIA, the Interconnection Customer may make a one-time election by written notice thirty (30) Calendar Days prior to Commercial Operation Date to receive merchant transmission Congestion Revenue Rights (“CRRs”) as defined in and as available at the time of election in lieu of a repayment of its share of the costs of Reliability Network Upgrades and Local Delivery Network Upgrades in accordance with Article 11.4, which equals the payment (subject to true-up) made by it for the applicable type of Network Upgrades listed in the preceding sentence, and as shown in Appendix G.

The maximum reimbursement for the Reliability Network Upgrades will be capped in accordance with Article 14.3.2.1(1) of Appendix DD of the CAISO Tariff.

10. Security Amount for the Participating TO’s Interconnection Facilities and Network Upgrades:

(a) The Participating TO’s Interconnection Facilities:

For “Option to Build” posting requirements will change as per Section 11.3 of the GIDAP

Pursuant to Section 11.3 of the GIDAP and Article 11.5 of the LGIA, the Interconnection Customer shall provide Interconnection Financial Security in the amount of [REDACTED] for the second posting and shall remain at [REDACTED] to satisfy the requirement for the third posting to cover the total estimated costs for constructing, procuring and installing the Participating TO’s Interconnection Facilities.

(b) Network Upgrades:

Pursuant to Section 11.3 of the GIDAP, and Article 11.5 of the LGIA, the Interconnection Customer shall provide Interconnection Financial Security in the amount of [REDACTED] for the second posting and shall increase it to [REDACTED] to satisfy the requirement for the third posting to cover the total estimated costs that Participating TO will incur for constructing, procuring and installing the Network



Upgrades.

Table A-5
Interconnection Financial Security Posting Amounts

Item	The amount of Second Posting of Interconnection Financial Security	The amount of Third Posting of Interconnection Financial Security	The Maximum amount of Total Interconnection Financial Security**
(i) Participating TO's Interconnection Facilities			
(ii) Reliability Network Upgrades			
(iii) Local Delivery Network Upgrades			
(iv) Area Delivery Network Upgrades			
Total			

** Subject to change until the Project achieves COD

11. Insurance:

The Interconnection Customer, as the designated Party, at its own expense, is required to maintain the minimum insurance coverage(s) as provided in this LGIA with insurers that have received the required rating listed in the LGIA and are authorized to do business in California in accordance with requirements of Article 18.3 of the LGIA. The Interconnection Customer shall initially provide the Participating TO and the CAISO proof of insurance coverage(s) thirty (30) Calendar Days prior to start of construction of Interconnection Facilities or Large Generating Facility under this LGIA. Any subsequent changes/renewals shall be provided within ninety (90) Calendar Days of such changes/renewals. All certificates of insurance coverage, including endorsements, cancellations, terminations, alterations, and material changes of such insurance shall be issued and submitted to the following:

a. Participating Transmission Owner

Pacific Gas and Electric Company
Attention: Electric Grid Interconnection – Contract Management
245 Market Street, Code N7L
P.O. Box 770000
San Francisco, CA 94177-0001
Email: EGIContractMgmt@pge.com

b. CAISO

Attention: Queue Management,
Infrastructure Contracts and Management
250 Outcropping Way
Folsom, CA 95630

APPENDIX B

Milestones

1. Interconnection Customer's Selected Option:

The Interconnection Customer, electing Option (A) Deliverability option, has selected the Standard Option in accordance with Article 5.1.1 of the LGIA.

Resource ID: TBD

2. Interconnection Milestones and Due Dates:

Table B-1

Item	Milestone	Responsible Party	Due Date
(a)	Submittal of approval from the appropriate governmental authority for any facilities requiring regulatory approval, as applicable, to Participating TO and CAISO, pursuant to Article 5.6.1 of the LGIA	Interconnection Customer	At least thirty (30) Calendar Days prior to the commencement of the construction of the Participating TO's Interconnection Facilities and Network Upgrades
(b)	Submittal of written authorization to proceed with design, procurement and construction of Participating TO's Interconnection Facilities and Network Upgrades to Participating TO and CAISO pursuant to Articles 5.5.2 and 5.6.3 of the LGIA	Interconnection Customer	Upon execution of this LGIA, or at least thirty (30) Calendar Days prior to the commencement of the procurement, installation or construction of the Participating TO's Interconnection Facilities and Network Upgrades, whichever is later
(c)	Submittal of the second posting of Interconnection Financial Security for (i) Participating TO's Interconnection Facilities, (ii) Reliability Network Upgrades and (iii) Local Delivery Network Upgrades to Participating TO pursuant to Articles 5.5.3, and 11.5 of the LGIA and as outlined in Appendix A	Interconnection Customer	Within one hundred eighty (180) Calendar Days of the publication date of Final Phase II Study Report
(d)	Submittal of the third posting of Interconnection Financial Security for (i) Participating TO's	Interconnection Customer	On or before the start of Construction Activities of the Participating TO's

Item	Milestone	Responsible Party	Due Date
	Interconnection Facilities, (ii) Reliability Network Upgrades and (iii) Local Delivery Network Upgrades to Participating TO pursuant to Articles 5.5.3, 5.6.4 and 11.5 of the LGIA and as outlined in Appendix A		Interconnection Facilities or Reliability Network Upgrades or Local Delivery Network Upgrades whichever is earlier
(e)	Completion of (i) Participating TO's Interconnection Facilities and (ii) Reliability Network Upgrades	Interconnection Customer and Participating TO	Prior to the In-Service Date
(f)	Submittal of initial specifications for the Interconnection Customer's Interconnection Facilities and Large Generating Facility, Including System Protection Facilities, to the Participating TO and the CAISO as specified in Article 5.10.1 of the LGIA	Interconnection Customer	At least one hundred eighty (180) Calendar Days prior to the Initial Synchronization Date
(g)	Initial information submission, including Participating TO's Transmission System information necessary to allow the Interconnection Customer to select equipment, in accordance with Article 24.2 of the LGIA	Participating TO	No later than one hundred eighty (180)) Calendar Days prior to the Trial Operation period
(h)	Updated information submission by Interconnection Customer, including manufacturer information in accordance with Article 24.3 of the LGIA	Interconnection Customer	No later than one hundred eighty (180) Calendar Days prior to the Trial Operation period
(i)	Review of and comment on Interconnection Customer's initial specifications as specified in Article 5.10.1 of the LGIA	Participating TO and CAISO	Within thirty (30) Calendar Days of the Interconnection Customer's submission of initial specifications
(j)	Submittal of final specifications for the Interconnection Customer's Interconnection Facilities and Large Generating Facility, including System Protection Facilities, to the Participating TO and the CAISO as specified in Article 5.10.1 of the	Interconnection Customer	At least ninety (90) Calendar Days prior to the Initial Synchronization Date



Item	Milestone	Responsible Party	Due Date
	LGIA		
(k)	Review of and comment on Interconnection Customer's final specifications as specified in Article 5.10.1 of the LGIA	Participating TO and CAISO	Within thirty (30) Calendar Days of the Interconnection Customer's submission of final specifications
(l)	Notification of Balancing Authority Area in which the Interconnection Customer intends to be located to Participating TO and CAISO pursuant to Article 9.2 of the LGIA	Interconnection Customer	At least three (3) months prior to the Initial Synchronization Date
(m)	Performance of a complete calibration test and functional trip test of the System Protection Facilities pursuant to Article 9.7.4.6 of the LGIA	Interconnection Customer and Participating TO	Within sixty (60) Calendar Days prior to the In-Service Date
(n)	In-Service Date	Participating TO	2/12/2024
(o)	Performance of a complete calibration test and functional trip test of the System Protection Facilities prior to the Commercial Operation Date, pursuant to Article 9.7.4.6 of the LGIA	Interconnection Customer and Participating TO	Within sixty (60) Calendar Days prior to the Commercial Operation Date
(p)	Testing of the Participating TO's Interconnection Facilities and Network Upgrades, and testing of the Interconnection Customer's Large Generating Facility, Network Upgrades, and Interconnection Facilities in accordance with Article 6.1 of the LGIA	Interconnection Customer and Participating TO	Within sixty (60) Calendar Days prior to the Commercial Operation Date
(q)	Provide written approval to Interconnection Customer for the operation of the Large Generating Facilities in accordance with Article 6.1 of the LGIA	Participating TO	Within fifteen (15) Calendar Days prior to the Commercial Operation Date
(r)	Initial Synchronization Date (Interconnection Customer to provide notification in writing to Participating TO)	Interconnection Customer	4/01/2024



Item	Milestone	Responsible Party	Due Date
(s)	Trial Operation period commences	Interconnection Customer	5/15/2024
(t)	Commercial Operation Date	Interconnection Customer	6/13/2024
(u)	Submittal of "as-built" drawings, information and documents for the Interconnection Customer's Interconnection Facilities and the Electric Generating Units in accordance with Article 5.10.3 of the LGIA to the Participating TO and CAISO	Interconnection Customer	Within one hundred twenty (120) Calendar Days after the Commercial Operation Date.

Notes:

(i) *These milestones are contingent upon timely negotiation and execution of this LGIA, prior to 08/30/2022. Any delays to the LGIA execution may impact the ability to achieve the milestones above.*

(ii) *The Interconnection Customer understands and acknowledges that such timeline is only an estimate and that equipment and material lead times, labor availability, outage coordination, regulatory approvals, right-of-way negotiations, or other unforeseen events could delay the actual in-service dates of the Participating TO's Interconnection Facilities, Distribution Upgrades, or Network Upgrades beyond those specified. The Participating TO shall not be liable for any cost or damage incurred by the Interconnection Customer because of any delay in the schedule for work provided for in this LGIA.*

3. Suspension:

If the Interconnection Customer suspends work pursuant to Article 5.16 of the LGIA, then all milestones for each Party pertaining to the Participating TO's obligations for construction and installation related to Network Upgrades and Participating TO's Interconnection Facilities set forth in this Appendix B shall be suspended during the suspension period except for the milestones related to Network Upgrades common to multiple generating facilities and the related Interconnection Financial Security and associated payment obligations. Any extension of the In-Service Date, Initial Synchronization Date, Trial Operation or Commercial Operation Date for the Generating Facility shall be subject to evaluation under Section 6.7.2 of the GIDAP pertaining to modifications. Upon the Interconnection Customer's request to recommence the work, the Parties shall negotiate in good faith new milestone dates for such milestone, taking into account the period of suspension and necessary re-studies, if required. Appendix B and any terms and conditions associated with the estimated costs and payment schedule, if necessary, shall be amended following the establishment of such revised milestone dates.

The Interconnection Customer also understands and agrees that the method of service required to interconnect the Large Generating Facility may require re-assessment due to the suspension of the Project and changes to the Participating TO's electrical system or addition of new generation.

4. Estimated Construction Schedule:

The length of time estimated by PG&E to design, procure and construct and/or upgrade the Project's Participating TO's Interconnection Facilities, Reliability Network Upgrades and Local Delivery Network Upgrades are presented in Tables A-1, B-1, G-1, and G-2. respectively.

Gonzaga Hybrid Project Vicinity Map Q1718

Figure C-2



Automatic generator limiting scheme:

The Power Curtailment option in the Nordex Control 2 Wind Farm Portal package, working in concert with the Nordex CWE-SCADA will control the wind turbine aggregate power output. The Fluence Operating System included with the storage units will control the output of the battery storage system. The total increased MW at the POI will thereby be limited to 103.65 MW. The system has been reviewed and found acceptable by the ISO and CAISO, and will be tested prior to trial operations.

Charging option

1. Indicate charging option in Appendix A and/or C(LGIA)/Attachment 2(SGIA).
Options include:
 - A hybrid of charging from CAISO controlled grid and on-site generation.
2. For pre-COD projects, consult the Phase II study report or MMA approval letter to see if any language or description already exists.

1. *If this is a post-COD project, consult modification assessment letter and report to see if any language or description already exists.*
2. *If IC elects option (b), we may include description of IC control to prevent charging from the ISO controlled grid, if proposed and provided by IC. Such mechanism is not required by the CAISO as of today.*

Single Line Diagram should indicate charging option, special metering setup and energy storage location in Appendix C(LGIA).

Primary Frequency Response- Electric Storage Resources

Under Article 9.6.4.4 of Appendix EE and Appendix C(LGIA) are required to specify the: 1) Operating range of Electric Storage Resources, 2) dynamic or static operating range, and 3) periodic re-evaluation frequency and factors, by the CAISO. Provided below is sample language from SCE LGIA to be used as reference for future GIAs

- (a) *Primary Frequency Response Operating Range for Electric Storage Resources: In accordance with Article 9.6.4.4 of the LGIA, the storage component(s) of the Large Generating Facility as described in shall comply with the primary frequency response requirements of Articles 9.6.4, 9.6.4.1 and 9.6.4.2 of the LGIA whenever such storage component(s) is operating in parallel (in generation or charging mode) with the CAISO Controlled Grid and is at a state of charge within the range set forth below as provided by the Interconnection Customer:*

Minimum state of charge 3 % of the upper charging limit of each storage component

Maximum state of charge: 99 % of the upper charging limit of each storage component

Upper charging limit: 200 MWh for each storage component of the Large Generating Facility

The state of charge range specified above for the purpose of complying with the primary frequency response requirements of the LGIA shall be: 1) dynamic, 2) subject to initial evaluation as part of detailed engineering after the execution of the LGIA, 3) subject to periodic reevaluation every three (3) years (unless specified otherwise by the CAISO), and 4) subject to modification by the CAISO in consultation with the Interconnection Customer and Participating TO. Factors to be considered, but not limited to, in such reevaluation and potential modification may include the following: 1) the expected magnitude of frequency deviations in the interconnection, 2) the expected duration that system frequency will remain outside of the deadband parameter in the interconnection, 3) the expected incidence of frequency deviations outside of the deadband parameter in the interconnection, 4) the physical capabilities of

the electric storage resource, 5) operational limitations of the electric storage resource due to manufacturer specifications, and 6) any other relevant factors agreed to by CAISO and Interconnection Customer in consultation with the Participating TO. Any change in the state of charge range specified above as the result of such reevaluation, shall be provided in writing by the CAISO to the Interconnection Customer and Participating TO in accordance with Article 15 of the LGIA.



APPENDIX D

Security Arrangements Details

Infrastructure security of CAISO Controlled Grid equipment and operations and control hardware and software is essential to ensure day-to-day CAISO Controlled Grid reliability and operational security. FERC will expect the CAISO, all Participating TOs, market participants, and Interconnection Customers interconnected to the CAISO Controlled Grid to comply with Applicable Reliability Criteria. All public utilities will be expected to meet basic standards for system infrastructure and operational security, including physical, operational, and cyber-security practices.

The Interconnection Customer shall meet the requirements for security implemented pursuant to the CAISO Tariff, including the CAISO's standards for information security posted on the CAISO's internet web site at the following internet address:
<http://www.caiso.com/pubinfo/info-security/index.html>.

The Parties agree to exchange the following information in the format provided below or in a mutually acceptable format ten (10) Calendar Days prior to Project's Initial Synchronization Date.

Operating communications and notifications shall take place among the following designated representatives of the Parties:

CAISO	PARTICIPATING TO (PACIFIC GAS AND ELECTRIC COMPANY)	INTERCONNECTION CUSTOMER (GONZAGA RIDGE WIND FARM, LLC)
CAISO Real Time Desk/24 Hour Desk: Alternate phone:	Transmission Operations Center 24-hour telephone:	Operator Name and/or Title: Remote Operations Center (ROC) 24-hour Telephone: 720-750-8094 Alternate phone: 303-263-4911 Email: ROC@scoutcleanenergy.com

1. Gonzaga Hybrid Project:

The Interconnection Customer may make changes to the equipment listed in its Interconnection Request and/or approved in the Interconnection Study report in accordance with the CAISO Tariff subject to review and approval by the CAISO and the Participating TO.

- (i) The Interconnection Customer shall operate the Large Generating Facility and the Interconnection Customer's Interconnection Facilities in accordance with the CAISO Tariff; NERC and the Applicable Reliability

Council requirements; and Applicable Reliability Standards.

- (ii) The Large Generating Facility shall be operated so as to prevent or protect against the following adverse conditions on the Participating TO's electric system: inadvertent and unwanted re-energizing of a utility dead line or bus; interconnection while out of synchronization; overcurrent; voltage imbalance; ground faults; generated alternating current frequency outside permitted safe limits; power factor or reactive power outside permitted limits; and abnormal waveforms.

2. Operational Deliverability Assessment:

The Interconnection Customer elected Option (A) as the Transmission Planning Deliverability allocation option, for proceeding with the subsequent Phase II Interconnection Study process. The Project received 0 (zero) TPD Allocation and has elected to proceed as Energy Only. In accordance with Section 6.3.2.2 of the GIDAP, the Generating Facility will be Off-Peak Energy Only, as such term is defined in the CAISO Tariff.

3. Interconnection Principles:

- (a) This LGIA provides for Interconnection Service capacity of up to a net 103.65 MW output to the CAISO Controlled Grid as specified in Appendix A resulting from the interconnection of the Project, as described in Appendix C. The Interconnection Customer acknowledges that if the Interconnection Customer wishes to increase the amount of interconnection capacity provided pursuant to this LGIA, the Interconnection Customer shall be required to submit a new Interconnection Request in accordance with the terms and conditions of the CAISO Tariff.
- (b) In the event the Participating TO's Interconnection Facilities are utilized to provide retail service to the Interconnection Customer in addition to the wholesale Interconnection Service provided herein, and the Interconnection Customer fails to make payment for such retail service in accordance with the Participating TO's applicable retail tariffs, then the Participating TO's Interconnection Facilities may be removed from service to the Interconnection Customer, subject to the notice and cure provisions of such retail tariffs, until payment is made by the Interconnection Customer pursuant to such retail tariffs.
- (c) The costs associated with any mitigation measures required to third party transmission systems, which result from interconnection of the Project to the Participating TO's electrical system, are not reflected in this LGIA. The Participating TO shall have no responsibility to pay costs associated with any such mitigation measures. If applicable, the

Interconnection Customer shall enter into an agreement with such third parties in accordance with Section 14.4 of Appendix DD ("GIDAP") of the CAISO Tariff to address any required mitigation.

- (d) Pursuant to Appendix H of the LGIA, the Participating TO's approval process will include verification that the low-voltage ride-through, SCADA capability, and power factor correction equipment, if any, required pursuant to this LGIA, have been installed and are operational.

4. Interconnection Operations:

- (a) The Interconnection Customer shall cause the Project to participate in any Special Protection System ("SPS") required to prevent thermal overloads and unstable conditions resulting from outages. Such participation shall be in accordance with applicable FERC regulations, and CAISO Tariff provisions and protocols. The Interconnection Customer will not be entitled to any compensation from the Participating TO, pursuant to the LGIA, for loss of generation output when (i) the Large Generating Facility's generation is reduced or the Project is tripped off-line due to implementation of the SPS; or (ii) such generation output is restricted in the event the SPS becomes inoperable. In accordance with Good Utility Practice, the Participating TO will provide the Interconnection Customer advance notice of any required SPS beyond that which has already been identified in the Phase II Interconnection Study and this LGIA.
- (b) The Interconnection Customer shall cause the Large Generating Facility to participate in CAISO Congestion Management.
- (c) Following outages of the Interconnection Facilities or the Generating Facility, the Interconnection Customer shall not energize the Project for any reason without specific permission from the Participating TO's and the CAISO's operations personnel. Such permission shall not be unreasonably withheld.
- (d) The Interconnection Customer shall maintain operating communications with the Participating TO's designated grid control center. The operating communications shall include, but not be limited to, system parallel operation or separation, scheduled and unscheduled outages, equipment clearances, protective relay operations, and levels of operating voltage and reactive power.

5. Compliance with Applicable Reliability Standards:

The Interconnection Customer shall comply with all Applicable Reliability Standards for the Interconnection Customer's Interconnection Facilities and the Large Generating Facility. The Participating TO will not assume any responsibility for complying with mandatory reliability standards for such facilities and offers no opinion as to whether the Interconnection Customer must register with NERC. If required to register with NERC, the Interconnection Customer shall be responsible for complying with all Applicable Reliability Standards for the Interconnection Customer's Interconnection Facilities and the Large Generating Facility up to the Point of Change of Ownership.

6. Affected Systems Coordination:

The CAISO cannot study comprehensively the impacts of the Generating Facility on the transmission systems of Affected System operators. The CAISO does not have detailed information about Affected Systems on a transmission-element level, nor does the CAISO know the details of the various reliability and operating criteria applicable to the Affected Systems. In addition, because the operation of transmission systems and NERC reliability standards change over time, the CAISO cannot presume to know all of the impacts of these changes on Affected Systems. As such, the CAISO contacted all potentially *Affected Systems* to inquire whether they are impacted by the Generating Facility's interconnection to the CAISO Controlled Grid. The CAISO provided notice to the Interconnection Customer of the *Identified Affected Systems* for this Generating Facility. To ensure a safe and reliable interconnection to the CAISO Controlled Grid, six (6) months before the Initial Synchronization Date of the Generating Facility, the Interconnection Customer shall provide documentation to the CAISO, in accordance with Article 11.4.2 of the LGIA, confirming that the Identified Affected System operators have been contacted by the Interconnection Customer, and (i) that any system reliability impacts have been addressed (or that there are no system impacts), or (ii) that the Interconnection Customer has taken all reasonable steps to address potential reliability system impacts with the Identified Affected System operator but has been unsuccessful.



APPENDIX E

COMMERCIAL OPERATION DATE

[This Appendix E sets forth a form of letter to be provided by the Interconnection Customer to the CAISO and Participating TO to provide formal notice of the Commercial Operation of an Electric Generating Unit.]

[This Appendix E sets forth a form of letter to be provided by the Interconnection Customer to the CAISO and Participating TO to provide formal notice of the Commercial Operation of an Electric Generating Unit.]

[Date]

Mr. Mike Turner
Senior Manager, Model & Contract Implementation
California Independent System Operator Corporation
250 Outcropping Way
Folsom, CA 95630

Ms. Sandra Ellis
Interim Director, Transmission Grid Operations
Pacific Gas and Electric Company
Mail Code B15A
P.O. Box 770000
San Francisco, CA 94177

Ms. Sandra Ellis
Interim Director, Transmission Grid Operations
Pacific Gas and Electric Company
Vacaville Grid Control Center
4940 Allison Parkway
Vacaville, CA 95688

Dear Mr. Turner and Ms. Ellis:

Re: Gonzaga Ridge Wind Farm, LLC, – Gonzaga HybridProject (CAISO Queue Position 1718)

On **[Date]**, **Gonzaga Ridge Wind Farm, LLC** completed Trial Operation of the Gonzaga Hybrid project's Unit No. _____. This letter confirms that **Gonzaga Ridge Wind Farm, LLC** commenced Commercial Operation of the Gonzaga Hybrid project's Unit No. ____ at the Electric Generating Unit, effective as of **[Date plus one day]** and that **Gonzaga Ridge Wind Farm, LLC** provided the CAISO's operations personnel advance notice of its intended Commercial



Operations Date no less than five Business Days prior to that date.

Thank you,

[Signature]

[INSERT IC REPRESENTATIVE NAME]

[TITLE]

Gonzaga Ridge Wind Farm, LLC

CC: Queue Management

APPENDIX F

Addresses for Delivery of Notices and Billings

Notices:

CAISO:

Regulatory Contracts
250 Outcropping Way
Folsom, CA 95630
Email: RegulatoryContracts@caiso.com

Participating TO:

Pacific Gas and Electric Company
Electric Grid Interconnection – Contract Management
245 Market Street, MC N7L
San Francisco, CA 94105
Email: EGContractMgmt@pge.com

Interconnection Customer:

Gonzaga Ridge Wind Farm, LLC
5775 Flatiron Parkway, Suite 120
Boulder, Colorado 80301
Email: Transmission@Scoutcleanenergy.com

Billings and Payments:

Participating TO:

Pacific Gas and Electric Company
Electric Grid Interconnection – Contract Management
245 Market Street, MC N7L
San Francisco, CA 94105
Email: EGContractMgmt@pge.com

CAISO:

CAISO
Finance Dept.
Dennis Estrada
250 Outcropping Way
Folsom, CA 95630

Interconnection Customer:

Gonzaga Ridge Wind Farm, LLC
5775 Flatiron Parkway, Suite 120
Boulder, Colorado 80301



Email: AP@Scoutcleanenergy.com

Alternative Forms of Delivery of Notices (telephone, facsimile or e-mail):

CAISO:

QueueManagement@caiso.com

Regulatorycontracts@caiso.com

Participating TO:

EGIContractMgmt@pge.com

Interconnection Customer:

Brian@scoutcleanenergy.com,

transmission@scoutcleanenergy.com

APPENDIX G

Interconnection Customer's Share of Costs of Network Upgrades for Applicable Project Group

The cost responsibility for the required Network Upgrades (RNU and LDNU) to interconnect the Project was determined to be [REDACTED] as per the Addendum #1 to the Appendix A Queue Cluster 13 Phase II study report, dated December 29, 2021. The maximum cost responsibility of the project has been set at [REDACTED] as per the Addendum #1 to the Appendix A Queue Cluster 13 Phase II Study report, dated December 29, 2021.

Table G-1

Type of Upgrade	Upgrade	Description	Cost Allocation Factor	Estimated Cost x 1000 (PTO)	Escalated Cost x 1000 (IC)	Estimated Time (Months) to Construct
(i) Reliability Network Upgrades	QC13P2RAS-01 Los Banos-230/70 kV Transformer Overload RAS (Deliverability Triggered RNU)	QC13P2RAS-01 RAS to trip Q1718 for overload/outage of either Los Banos 230/70 kV transformer 3 or 4	[REDACTED]	[REDACTED]	[REDACTED]	36
(ii) Delivery Network Upgrades	None					
(a) Local Delivery Network Upgrades	None					
(b) Area Delivery Network Upgrades	None					
Total Escalated Costs					[REDACTED]	

The Parties agree that the amount of Network Upgrade costs allocated to the Project may change annually, up to the Project's maximum cost responsibility as established in accordance with Section 10 of Appendix DD of the CAISO Tariff, based on the outcome of reassessments conducted pursuant to Section 7.4 of Appendix DD of the CAISO Tariff, and any revisions thereto. The Parties also agree that any such changes will be reflected in the amount of security that the Interconnection Customer must provide as part of its third posting of Interconnection Financial Security. The Parties agree that any such change shall be subject to compliance with Article 30.9 of the LGIA.

Table G-2**PRECURSOR NETWORK UPGRADES (PNU) AND ESTIMATED IN-SERVICE DATE**

Type	Upgrade	Estimated ISD or Duration
CANU	None	
PNU	Extend Los Banos 70kV Bay Bus and Install Bus Selector Sw's, Parallel CB, and Ctrl Bldg Gen-Tie Line Terminal Equipment and Termination of Customer Fiber	12/31/2026
PNU	Gen-Tie T-Line on PG&E Substation Property	12/31/2025

Note: The IRNUs on the PNU table are scheduled to completed under Q1378.

APPENDIX H

INTERCONNECTION REQUIREMENTS FOR AN ASYNCHRONOUS GENERATING FACILITY

Appendix H sets forth interconnection requirements specific to all Asynchronous Generating Facilities. Except as provided in Section 25.4.2 of the CAISO tariff, existing individual generating units of an Asynchronous Generating Facility that are, or have been, interconnected to the CAISO Controlled Grid at the same location are exempt from the requirements of this Appendix H for the remaining life of the existing generating unit.

A. Technical Requirements Applicable to Asynchronous Generating Facilities

i. Voltage Ride-Through Capability

An Asynchronous Generating Facility shall be able to remain online during voltage disturbances up to the time periods and associated voltage levels set forth in the requirements below.

1. An Asynchronous Generating Facility shall remain online for the voltage disturbance caused by any fault on the transmission grid, or within the Asynchronous Generating Facility between the Point of Interconnection and the high voltage terminals of the Asynchronous Generating Facility's step up transformer, having a duration equal to the lesser of the normal three-phase fault clearing time (4-9 cycles) or one-hundred fifty (150) milliseconds, plus any subsequent post-fault voltage recovery to the final steady-state post-fault voltage unless clearing the fault effectively disconnects the generator from the system. Clearing time shall be based on the maximum normal clearing time associated with any three-phase fault location that reduces the voltage at the Asynchronous Generating Facility's Point of Interconnection to 0.2 per-unit of nominal voltage or less, independent of any fault current contribution from the Asynchronous Generating Facility.
2. An Asynchronous Generating Facility shall remain online for any voltage disturbance caused by a single-phase fault on the transmission grid, or within the Asynchronous Generating Facility between the Point of Interconnection and the high voltage terminals of the Asynchronous Generating Facility's step up transformer, with delayed clearing, plus any subsequent post-fault voltage recovery to the final steady-state post-fault voltage unless clearing the fault effectively disconnects the generator from the system. Clearing time shall be based on the maximum backup clearing time associated with a single point of failure (protection or breaker failure) for any single-phase fault location that reduces any phase-to-ground or phase-to-phase voltage at the Asynchronous Generating Facility's Point of Interconnection to 0.2 per-unit of nominal voltage or less, independent of any fault current contribution from the Asynchronous

Generating Facility.

3. Remaining on-line shall be defined as continuous connection between the Point of Interconnection and the Asynchronous Generating Facility's units, without any mechanical isolation. Momentary cessation (namely, ceasing to inject current during a fault without mechanical isolation) is prohibited unless transient high voltage conditions rise to 1.20 per unit or more. For transient low voltage conditions, the Asynchronous Generating Facility's inverters will inject reactive current. The level of this reactive current must be directionally proportional to the decrease in per unit voltage at the inverter AC terminals. The inverter must produce full reactive current capability when the AC voltage at the inverter terminals drops to a level of 0.50 per unit or below. The Asynchronous Generating Facility must continue to operate and absorb reactive current for transient voltage conditions between 1.10 and 1.20 per unit.

Upon the cessation of transient voltage conditions and the return of the grid to normal operating voltage ($0.90 < V < 1.10$ per unit), the Asynchronous Generating Facility's inverters automatically must transition to normal active (real power) current injection. The Asynchronous Generating Facility's inverters must ramp up to inject active (real power) current with a minimum ramping rate of at least 100% per second (from no output to full available output). The total time to complete the transition from reactive current injection or absorption to normal active (real power) current injection must be one second or less. The total time to return from momentary cessation, if used, during transient high voltage conditions over 1.20 per unit or more must be one second or less.

4. The Asynchronous Generating Facility's inverter will be considered to have tripped where its AC circuit breaker is open or otherwise has electrically isolated the inverter from the grid. Following an inverter trip, the inverter must make at least one attempt to resynchronize and connect back to the grid unless the trip resulted from a fatal fault code, as defined by the inverter manufacturer. This attempt must take place within 2.5 minutes from the inverter trip. An attempt to resynchronize and connect back to the grid is not required if the trip was initiated due to a fatal fault code, as determined by the original equipment manufacturer.
5. The Asynchronous Generating Facility is not required to remain on line during multi-phased faults exceeding the duration described in Section A.i.1 of this Appendix H or single-phase faults exceeding the duration described in Section A.i.2 of this Appendix H.
6. The requirements of this Section A.i of this Appendix H do not apply to faults that occur between the Asynchronous Generating Facility's terminals and the high side of the step-up transformer to the high-voltage transmission system.
7. Asynchronous Generating Facilities may be tripped after the fault period if this action is intended as part of a special protection system.

8. Asynchronous Generating Facilities may meet the requirements of this Section A.i of this Appendix H through the performance of the generating units or by installing additional equipment within the Asynchronous Generating Facility, or by a combination of generating unit performance and additional equipment.
9. The provisions of this Section A.i of this Appendix H apply only if the voltage at the Point of Interconnection has remained within the range of 0.9 and 1.10 per-unit of nominal voltage for the preceding two seconds, excluding any sub-cycle transient deviations.
10. Asynchronous Generating Facility inverters may not trip or cease to inject current for momentary loss of synchronism. As a minimum, the Asynchronous Generating Facility's inverter controls may lock the phase lock loop to the last synchronized point and continue to inject current into the grid at that last calculated phase prior to the loss of synchronism until the phase lock loop can regain synchronism. The current injection may be limited to protect the inverter. Any inverter may trip if the phase lock loop is unable to regain synchronism 150 milliseconds after loss of synchronism.
11. Inverter restoration following transient voltage conditions must not be impeded by plant level controllers. If the Asynchronous Generating Facility uses a plant level controller, it must be programmed to allow the inverters to automatically re-synchronize rapidly and ramp up to active current injection (without delayed ramping) following transient voltage recovery, before resuming overall control of the individual plant inverters.

ii. Frequency Disturbance Ride-Through Capability

An Asynchronous Generating Facility shall comply with the off nominal frequency requirements set forth in the NERC Reliability Standard for Generator Frequency and Voltage Protective Relay Settings, or successor requirements as they may be amended from time to time.

iii. Power Factor Design Criteria (Reactive Power)

An Asynchronous Generating Facility not studied under the Independent Study Process, as set forth in Section 4 of Appendix DD, shall operate within a power factor within the range of 0.95 leading to 0.95 lagging, measured at the high voltage side of the substation transformer, as defined in this LGIA in order to maintain a specified voltage schedule, if the Phase II Interconnection Study shows that such a requirement is necessary to ensure safety or reliability. An Asynchronous Generating Facility studied under the Independent Study Process, as set forth in Section 4 of Appendix DD, shall operate within a power factor within the range of 0.95 leading to 0.95 lagging, measured at the high voltage side of the substation transformer, as defined in this LGIA in order to maintain a specified voltage schedule. The power factor range standards set forth in

this section can be met by using, for example, power electronics designed to supply this level of reactive capability (taking into account any limitations due to voltage level, real power output, etc.) or fixed and switched capacitors, or a combination of the two, if agreed to by the Participating TO and CAISO. The Interconnection Customer shall not disable power factor equipment while the Asynchronous Generating Facility is in operation. Asynchronous Generating Facilities shall also be able to provide sufficient dynamic voltage support in lieu of the power system stabilizer and automatic voltage regulation at the generator excitation system if the Phase II Interconnection Study shows this to be required for system safety or reliability.

iv. Supervisory Control and Data Acquisition (SCADA) Capability

An Asynchronous Generating Facility shall provide SCADA capability to transmit data and receive instructions from the Participating TO and CAISO to protect system reliability. The Participating TO and CAISO and the Asynchronous Generating Facility Interconnection Customer shall determine what SCADA information is essential for the proposed Asynchronous Generating Facility, taking into account the size of the plant and its characteristics, location, and importance in maintaining generation resource adequacy and transmission system reliability.

v. Power System Stabilizers (PSS)

Power system stabilizers are not required for Asynchronous Generating Facilities.

vi. Transient Data Recording Equipment for Facilities above 20 MW

Asynchronous Generating Facilities with generating capacities of more than 20 MW must monitor and record data for all frequency ride-through events, transient low voltage disturbances that initiated reactive current injection, reactive current injection or momentary cessation for transient high voltage disturbances, and inverter trips. The data may be recorded and stored in a central plant control system. The following data must be recorded:

Plant Level:

- (1) Plant three phase voltage and current
- (2) Status of ancillary reactive devices
- (3) Status of all plant circuit breakers
- (4) Status of plant controller
- (5) Plant control set points
- (6) Position of main plant transformer no-load taps
- (7) Position of main plant transformer tap changer (if extant)
- (8) Protective relay trips or relay target data

Inverter Level:

- (1) Frequency, current, and voltage during frequency ride-through events
- (2) Voltage and current during momentary cessation for transient high voltage events (when used)
- (3) Voltage and current during reactive current injection for transient low or high voltage events
- (4) Inverter alarm and fault codes
- (5) DC current
- (6) DC voltage

The data must be time synchronized, using a GPS clock or similar device, to a one millisecond level of resolution. All data except phase angle measuring unit data must be sampled at least every 10 milliseconds. Data recording must be triggered upon detecting a frequency ride-through event, a transient low voltage disturbance that initiated reactive current injection, momentary cessation or reactive current injection for a transient high voltage disturbance, or an inverter trip. Each recording will include as a minimum 150 milliseconds of data prior to the triggering event, and 1000 milliseconds of data after the event trigger. The Asynchronous Generating Facility must store this data for a minimum of 30 days. The Asynchronous Generating Facility will provide all data within 10 calendar days of a request from the CAISO or the Participating TO.

The Asynchronous Generating Facility must install and maintain a phase angle measuring unit or functional equivalent at the entrance to the facility or at the Generating Facility's main substation transformer. The phase angle measuring unit must have a resolution of at least 30 samples per second. The Asynchronous Generating Facility will store this data for a minimum of 30 days. The Asynchronous Generating Facility will provide all phase angle measuring unit data within 10 calendar days of a request from the CAISO or the Participating TO.

Gonzaga Wind Project

Milestone 1 Documentation

Gonzaga Memorandum of Lease

BARBARA J LEVEY

Merced County Clerk - Recorder

P Public

WHEN RECORDED RETURN TO:

Scout Clean Power LLC
Attn: Land Department
2919 Valmont Rd., Suite 209
Boulder, CO 80301

Doc#: 2018018568



* \$ R 0 0 0 0 2 0 9 1 6 5 \$ *

Titles: 1	Pages: 8
Fees	35.00
Taxes	0.00
Housing Fee	75.00
PAID	110.00

THIS SPACE IS FOR RECORDER'S USE ONLY

MEMORANDUM OF LEASE

THIS MEMORANDUM OF LEASE ("Memorandum") is entered into as of the 15th day of JUNE 2018, by and between State of California, acting by and through the Director of the Department of General Services (DGS), with the consent of the California Department of Parks and Recreation (CDPR), hereinafter collectively referred to as "STATE", and Scout Clean Power LLC, formerly known as Scout Clean Energy, LLC, a Delaware Limited Liability Company (hereinafter referred to as "LESSEE"), with respect to a portion of the property located at Pacheco State Park, County of Merced, described in Exhibit "A", attached hereto and made a part hereof and incorporated herein.

Pursuant to the Lease, STATE hereby leases to LESSEE and LESSEE hereby leases from STATE a portion of the property described in Exhibit "A" and identified as Pacheco State Park. STATE grants to LESSEE those approvals and reservations described in detail in the Lease Agreement, all of which is incorporated by reference in its entirety in this Memorandum of Lease. The total term of this Lease shall be 34 years, 11 Months, commencing June 15, 2018.

The parties have executed and recorded this instrument to give notice of the Lease and the respective rights and obligations of STATE and LESSEE. This Memorandum of Lease shall bind and insure to the benefit of the parties and their respective heirs, successors, and assigns.

Exhibits. The following Exhibit is attached to this Memorandum and incorporated by reference herein.

Exhibit A. Legal Description of the Property

IN WITNESS WHEREOF, the PARTIES have executed this Agreement.

STATE:

California Department of Parks and Recreation

By: [Signature]

Title: Chief Deputy Director

Date: 3/5/2018

LESSEE:

Scout Clean Power LLC

By: [Signature]

Title: CEO

Date: 1/30/2018

Approved:

Department of General Services

By: [Signature]

Tony Psinopaidas, Manager
State Owned Leasing and Development

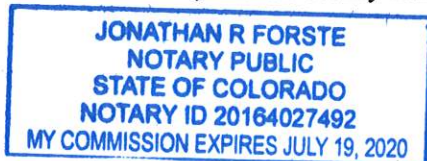
Date: 3/5/18

LESSEE:

STATE OF COLORADO §
 §
COUNTY OF BOULDER §

On this 30th day of January, 2018, before me a notary public, the undersigned officer, personally appeared Michael Rucker, who acknowledged himself to be the CEO of SCOUT CLEAN POWER, LLC, a Delaware limited liability company, and that he as such officer, being authorized to do so, executed the foregoing instrument for the purpose therein contained by signing the name of the company by himself as CEO on behalf of such company.

In witness whereof, I hereto set my hand and official seal.



Jonathan R Forste
Notary Public
State of Colorado

[SEAL]

My commission expires:

July 19, 2020

ACKNOWLEDGMENT

A notary public or other officer completing this certificate verifies only the identity of the individual who signed the document to which this certificate is attached, and not the truthfulness, accuracy, or validity of that document.

State of California
County of Sacramento

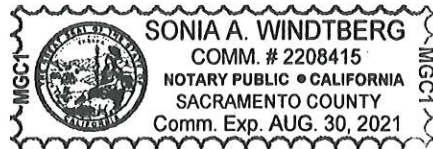
On 3-5-2018 before me, Sonia A. Windtberg, Notary Public
(insert name and title of the officer)

personally appeared ELIZABETH MCGUIRK,
who proved to me on the basis of satisfactory evidence to be the person(s) whose name(s) is/are
subscribed to the within instrument and acknowledged to me that he/she/they executed the same in
his/her/their authorized capacity(ies), and that by his/her/their signature(s) on the instrument the
person(s), or the entity upon behalf of which the person(s) acted, executed the instrument.

I certify under PENALTY OF PERJURY under the laws of the State of California that the foregoing
paragraph is true and correct.

WITNESS my hand and official seal.

Signature  (Seal)



CALIFORNIA ALL-PURPOSE ACKNOWLEDGMENT

CIVIL CODE § 1189

A notary public or other officer completing this certificate verifies only the identity of the individual who signed the document to which this certificate is attached, and not the truthfulness, accuracy, or validity of that document.

STATE OF CALIFORNIA,

County of Yolo } SS.

On March 5, 2018, before me, Kimberley Tsumura, Notary Public
Date

personally appeared Tony Psihopaidas ~~

who proved to me on the basis of satisfactory evidence to be the person(s) whose names(s) is/are subscribed to the within instrument and acknowledged to me that he/~~she~~/they executed the same in his/~~her~~/their authorized capacity(ies), and that by his/~~her~~/their signature(s) on the instrument the person(s), or the entity upon behalf of which the person(s) acted, executed the instrument.

I certify under PENALTY OF PERJURY under the laws of the State of California that the foregoing paragraph is true and correct.

FOR NOTARY SEAL OR STAMP

WITNESS my hand and official seal.



Signature of Notary Public

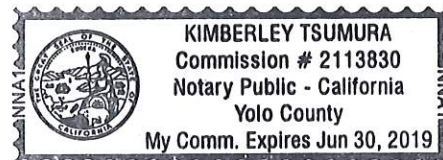


Exhibit "A"

Wind Lease Area

That portion of the real property described in the final distribution of the Paula Marie Fatjo Estate to the State of California, Department of Parks and Recreation, recorded on June 28, 1995 in Volume 3367 at Page 43, Official Records Merced County, lying within Rancho San Luis Gonzaga, in the County of Merced, State of California, described as follows:

Beginning at a point on the Southerly line of Dinosaur Point Road, formerly State Highway 152 (Route IV-S.C.L-32C=X-MER-32A) from which Highway Centerline Station 13+36.44 B.C. bears North 26°51'30" East 133.56 feet; thence along the following fifty four (54) courses:

1. South 46°53'24" West 20.00 feet to the southerly line of the road easement described in the directors easement deed, recorded January 15, 1976 in Volume 2018 at Page 127, Official Records Merced County;
2. along said easement South 50°38'41" East 319.70 feet;
3. leaving said easement South 20°42'32" East 327.02 feet;
4. South 08°08'47" West 287.85 feet;
5. South 29°05'58" East 432.99 feet;
6. South 15°18'45" West 594.39 feet;
7. South 11°17'43" East 159.30 feet;
8. South 42°50'02" East 158.95 feet;
9. South 81°23'25" East 171.75 feet;
10. North 76°08'53" East 488.46 feet;
11. South 11°52'40" East 2,135.87 feet;
12. South 01°41'25" East 3,266.01 feet;
13. South 22°36'40" East 1,275.40 feet;
14. South 04°51'49" East 1,538.34 feet;
15. South 38°06'02" East 1,072.08 feet;
16. South 73°42'36" East 1,098.88 feet;
17. North 85°11'11" East 1,506.31 feet;
18. North 55°58'46" East 1,257.17 feet;
19. North 77°41'34" East 688.53 feet;
20. South 35°21'15" East 2,015.05 feet; to a point on the Southerly line of said Rancho San Luis Gonzaga and said real property;
21. along said Southerly line, North 80°02'54" East 608.05 feet;
22. leaving said Southerly line, North 03°32'10" East 800.71 feet;
23. North 71°33'33" East 895.61 feet;
24. South 83°54'43" East 1,022.53 feet;
25. South 44°28'08" East 762.56 feet to a point on the Southerly line of said Rancho San Luis Gonzaga and said real property;
26. along said Southerly line North 80°02'54" East 714.25 feet;

27. leaving said Southerly line North 53°21'49" East 1,020.44 feet;
28. North 57°14'42" West 1,805.52 feet;
29. North 15°10'34" West 766.86 feet;
30. North 31°06'44" East 1,202.67 feet;
31. North 11°19'41" West 639.92 feet;
32. North 62°24'16" East 940.14 feet;
33. North 11°56'30" East 2,089.24 feet;
34. North 23°23'03" East 2,338.34 feet;
35. North 04°42'35" East 702.81 feet;
36. North 51°43'07" West 681.02 feet;
37. South 56°37'32" West 831.44 feet;
38. South 22°06'18" West 659.19 feet;
39. South 03°24'47" East 1,096.77 feet;
40. South 18°19'15" West 1,456.29 feet;
41. South 48°23'07" West 1,313.61 feet;
42. North 59°28'32" West 4,785.50 feet;
43. South 60°43'29" West 1,696.26 feet;
44. South 15°16'57" East 712.05 feet;
45. South 60°55'23" West 991.89 feet;
46. South 32°45'53" West 867.83 feet;
47. North 51°48'19" West 889.54 feet;
48. North 36°17'52" West 1,090.98 feet;
49. North 19°35'33" West 4,717.06 feet;
50. South 73°00'33" West 1,059.32 feet;
51. North 02°06'03" West 153.24 feet;
52. North 26°29'32" West 513.09 feet to the beginning of a non-tangent curve concave to the Northeast, having a radius of 560.00 feet, and a radial bearing of South 20°24'52" West, being the centerline of said Dinosaur Point Road;
53. along said centerline 186.95 feet Northwesterly along said curve through a central angle of 19°07'38" to said centerline station 13+36.44 B.C.;
54. South 26°51'30" West 133.56 feet to the point of beginning.

Said description contains 71,045,895 square feet (1630.99 acres) more or less. Said description to accompany plat attached hereto and made a part hereof.

End of description.

David Gutierrez, PLS 8852

Date

6-14-2018



LINE TABLE		
LINE	DIRECTION	LENGTH
L1	S46°53'24"W	20.00'
L2	S50°38'41"E	319.70'
L3	S20°42'32"E	327.02'
L4	S08°08'47"W	287.85'
L5	S29°05'58"E	432.99'
L6	S15°18'45"W	594.39'
L7	S11°17'43"E	159.30'
L8	S42°50'02"E	158.95'
L9	S81°23'25"E	171.75'
L10	N76°08'53"E	488.46'
L11	S11°52'40"E	2135.87'
L12	S01°41'25"E	3266.01'
L13	S22°36'40"E	1275.40'
L14	S04°51'49"E	1538.34'
L15	S38°06'02"E	1072.08'
L16	S73°42'36"E	1098.88'
L17	N85°11'11"E	1506.31'
L18	N55°58'46"E	1257.17'
L19	N77°41'34"E	688.53'
L20	S35°21'15"E	2015.05'

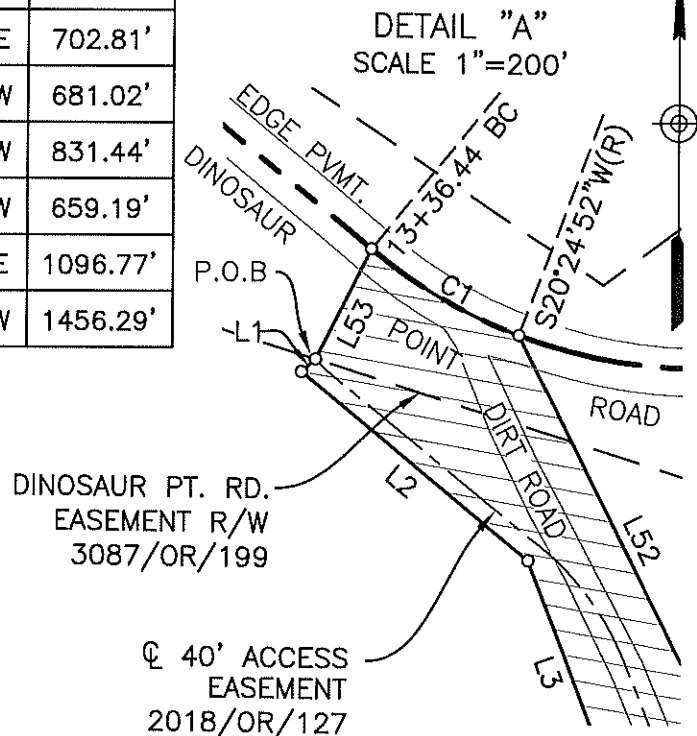
LINE TABLE		
LINE	DIRECTION	LENGTH
L21	N80°02'54"E	608.05'
L22	N03°32'10"E	800.71'
L23	N71°33'33"E	895.61'
L24	S83°54'43"E	1022.53'
L25	S44°28'08"E	762.56'
L26	N80°02'54"E	714.25'
L27	N53°21'49"E	1020.44'
L28	N57°14'42"W	1805.52'
L29	N15°10'34"W	766.86'
L30	N31°06'44"E	1202.67'
L31	N11°19'41"W	639.92'
L32	N62°24'16"E	940.14'
L33	N11°56'30"E	2089.24'
L34	N23°23'03"E	2338.34'
L35	N04°42'35"E	702.81'
L36	N51°43'07"W	681.02'
L37	S56°37'32"W	831.44'
L38	S22°06'18"W	659.19'
L39	S03°24'47"E	1096.77'
L40	S18°19'15"W	1456.29'

LINE TABLE		
LINE	DIRECTION	LENGTH
L41	S48°23'07"W	1313.61'
L42	N59°28'32"W	4785.50'
L43	S60°43'29"W	1696.26'
L44	S15°16'57"E	712.05'
L45	S60°55'23"W	991.89'
L46	S32°45'53"W	867.83'
L47	N51°48'19"W	889.54'
L48	N36°17'52"W	1090.98'
L49	N19°35'33"W	4717.06'
L50	S73°00'33"W	1059.32'
L51	N02°06'03"W	153.24'
L52	N26°29'32"W	513.09'
L53	S26°51'30"W	133.56'

CURVE TABLE			
CURVE	LENGTH	RADIUS	DELTA
C1	186.95'	560.00'	19°07'38"

LEGEND

P.O.B POINT OF BEGINNING
 o DIMENSION POINT



DATE
06/2018

DRAWN
DG

CHECKED
DS

4
OF
4

WIND LEASE AREA
EXHIBIT "A"
 PACHECO STATE PARK



ACQUISITION &
 REAL PROPERTY SERVICES
 One Capitol Mall
 Sacramento, CA
 95814-3229



San Francisco
Water
Power
Sewer

Services of the San Francisco
Public Utilities Commission

The CleanPowerSF logo features the words "CleanPower" in green and "SF" in blue, with a thin, multi-colored arc above the text.

CleanPowerSF

Appendix C

Ormat Geothermal
Milestone 1 Documentation

Ormat Geothermal

Milestone 1 Document for Dogwood
Quit Claim Deed

00 11829

RECORDING REQUESTED BY

WHEN RECORDED RETURN TO:

Ogden Energy Inc.
3211 Jermantown Rd.
Fairfax, VA 22030

Attn: DALE DAILEADER

DOLORES PROVENCIO

COUNTY RECORDER

BOOK 2018 PAGE 772

'30 JUN 16 PM 2 59

OFFICIAL RECORDS
IMPERIAL COUNTY, CA

TLs	2400
RG	9
RF	7
MC	1
IX	1
TF	6
NL	
PY	
PR	

QUITCLAIM DEED

Mail Tax Statement To Return Address Above

RECORDING REQUESTED BY:
AND WHEN RECORDED MAIL TO:
Pillsbury Madison & Sutro LLP
50 Fremont Street
San Francisco, CA 94105
Attn: Robert J. Spjut, Esq.

Tax Due: \$16,643.00 *RED*
~~-\$115.50~~
Computed on full value of property conveyed

Richard E. Dyer
Signature of Declarant **INCORPORATED**

QUITCLAIM DEED

FOR VALUABLE CONSIDERATION, the receipt and sufficiency of which are hereby acknowledged, U.S. TRUST COMPANY OF CALIFORNIA, N.A., not in its individual capacity but solely as owner trustee under that certain Trust Agreement dated as of December 18, 1991, between Aircraft Services Corporation, a Nevada corporation, and U.S. Trust Company of California, N.A. ("GRANTOR"), hereby grants to HEBER FIELD COMPANY, a California partnership, that certain real property located in the County of Imperial, State of California, APN 054-250-30-01, APN 054-250-35-01, and APN 054-250-36-01, as more particularly described in Exhibit A attached hereto and incorporated herein by this reference.

IN WITNESS WHEREOF, GRANTOR has caused its corporate name and seal to be affixed hereto and this Quitclaim Deed to be duly executed by its authorized officer on this ____ day of February, 2000.

U.S. TRUST COMPANY OF CALIFORNIA, N.A.,
not in its individual capacity but solely as owner
trustee under that certain Trust Deed dated as of
December 18, 1991 between Aircraft Services
Corporation, a Nevada corporation, and U.S. Trust
Company of California, N.A.

By: *Prasanna C. Giermelowski*
Name: *Prasanna C. Giermelowski*
Title: AUTHORIZED SIGNATORY

MAIL TAX STATEMENTS TO:
Heber Field Company
c/o Richard E. Dyer
3211 Jermantown Road
Fairfax, VA 22030

10333789V1

State of New York)
) ss.
 County of New York)

On this the 3rd day of April, 2000, before me, Christine C. Gilroy, the undersigned Notary Public, personally appeared Margaret Cierniewski, personally known to me or proved to me on the basis of satisfactory evidence to be the person(s) whose name(s) is subscribed to the within instrument, and acknowledged to me that she executed the same in her authorized capacity(ies), and that by her signature(s) on the instrument the person(s), or the entity upon behalf of which the person(s) acted, executed the instrument.

WITNESS my hand and official seal.

Christine C. Gilroy
 Notary's Signature

CHRISTINE C. GILROY
 Notary Public, State of New York
 No. 00-258046
 Commission Expires March 30, 2003

10533789V1

A1-1:

COUNTY OF IMPERIAL, STATE OF CALIFORNIA

PARCEL 2 OF PARCEL MAP NO. M-1106, RECORDED NOVEMBER 28, 1978 IN BOOK 4 OF PARCEL MAPS AT PAGE 63 OF OFFICIAL RECORDS OF SAID COUNTY OF IMPERIAL, BEING A PORTION OF THE SOUTH HALF OF TRACT 44, TOWNSHIP 18 SOUTH, RANGE 14 EAST, SAN BERNARDINO MERIDIAN, ACCORDING TO THE UNITED STATES GOVERNMENT PLAT OF RE-SURVEY APPROVED FEBRUARY 6, 1909 AND ON FILE IN THE UNITED STATES LAND OFFICE.

EXCEPTING THEREFROM MINERALS, EITHER IN SOLID OR LIQUID FORM, GEOTHERMAL STEAM, NATURALLY HEATED WATER, AND THERMAL ENERGY BELOW A DEPTH OF 300 FEET FROM THE SURFACE OF SAID LAND, WITHOUT RIGHT OF SURFACE ENTRY, AS EXCEPTED IN THE DEED RECORDED SEPTEMBER 26, 1979 IN BOOK 1441 PAGE 933 OF OFFICIAL RECORDS.

Al-2.3:

COUNTY OF IMPERIAL, STATE OF CALIFORNIA

PARCEL 1:

THAT PORTION OF THE EAST HALF OF TRACT 45, TOWNSHIP 16 SOUTH, RANGE 14 EAST, SAN BERNARDINO MERIDIAN, ACCORDING TO THE OFFICIAL PLAT THEREOF, LYING EASTERLY OF THE EAST LINE OF THE SOUTHERN PACIFIC RAILROAD COMPANY RIGHT OF WAY, DESCRIBED AS FOLLOWS:

BEGINNING AT THE INTERSECTION OF THE NORTHERLY LINE OF SAID TRACT 45 AND SAID EASTERLY LINE OF THE SOUTHERN PACIFIC RAILROAD COMPANY RIGHT OF WAY, AS SAID INTERSECTION IS SHOWN ON RECORD OF SURVEY FILED IN BOOK 6, PAGES 32 AND 33 OF RECORDS OF SURVEY IN THE OFFICE OF THE COUNTY RECORDER OF SAID COUNTY; THENCE SOUTH $18^{\circ} 48' 34''$ EAST, 46.49 FEET, MEASURED ALONG SAID EASTERLY LINE, TO A FOUND ONE INCH IRON PIPE WITH TAG, STAMPED RCE 13484 AND BEING THE TRUE POINT OF BEGINNING OF THIS DESCRIPTION; THENCE CONTINUING SOUTH $18^{\circ} 48' 34''$ EAST, 1053.83 FEET TO A FOUND ONE INCH IRON PIPE, WITH TAG, STAMPED RCE 13484; THENCE NORTH $71^{\circ} 10' 23''$ EAST, 345.93 FEET TO A FOUND ONE INCH IRON PIPE, WITH TAG, STAMPED RCE 13484; THENCE NORTH $18^{\circ} 48' 21''$ WEST, 195.71 FEET TO THE BEGINNING OF A TANGENT CURVE, CONCAVE SOUTHWESTERLY AND HAVING A RADIUS OF 70 FEET; THENCE NORTHWESTERLY ALONG SAID CURVE, THROUGH A CENTRAL ANGLE OF 45° , AN ARC DISTANCE OF 54.97 FEET; THENCE NORTH $63^{\circ} 48' 21''$ WEST, 70.71 FEET TO THE BEGINNING OF A TANGENT CURVE, CONCAVE NORTHEASTERLY AND HAVING A RADIUS OF 70 FEET; THENCE NORTHWESTERLY ALONG SAID CURVE, THROUGH A CENTRAL ANGLE OF 45° , AN ARC DISTANCE OF 54.97 FEET; THENCE NORTH $18^{\circ} 48' 21''$ WEST, 96.37 FEET TO THE BEGINNING OF A TANGENT CURVE, CONCAVE SOUTHEASTERLY AND HAVING A RADIUS OF 70 FEET; THENCE NORTHERLY AND NORTHEASTERLY ALONG SAID CURVE, THROUGH A CENTRAL OF 45° , AN ARC DISTANCE OF 54.97 FEET; THENCE NORTH $26^{\circ} 11' 39''$ EAST, 70.71 FEET TO THE BEGINNING OF A TANGENT CURVE, CONCAVE NORTHWESTERLY AND HAVING A RADIUS OF 70 FEET; THENCE NORTHEASTERLY ALONG SAID CURVE, THROUGH A CENTRAL ANGLE OF 45° , AN ARC DISTANCE OF 54.97 FEET; THENCE NORTH $18^{\circ} 48' 21''$ WEST, 187.71 FEET TO A FOUND ONE INCH IRON PIPE, WITH TAG, STAMPED RCE 28447; THENCE NORTH $89^{\circ} 37' 59''$ WEST, 57.77 FEET; THENCE NORTH $45^{\circ} 02' 12''$ WEST, 56.84 FEET; THENCE NORTH $0^{\circ} 01'$ EAST, 109.76 FEET TO A FOUND ONE INCH IRON PIPE, WITH TAG, STAMPED RCE 28447; THENCE SOUTH $89^{\circ} 58' 30''$ WEST, ALONG A LINE THAT IS PARALLEL WITH AND 44 FEET SOUTHERLY, MEASURED AT RIGHT ANGLES FROM SAID NORTHERLY LINE OF TRACT 45, A DISTANCE OF 118.67 FEET TO THE TRUE POINT OF BEGINNING.

EXCEPTING AND RESERVING THEREFROM, ALL URANIUM, THORIUM AND OTHER FISSIONABLE MATERIALS, GEOTHERMAL RIGHTS INCLUDING ALL WATER, BRINE, STEAM, SALT AND CHEMICALS, ALL OIL, GAS, PETROLEUM, ASPHALTUM, AND OTHER HYDROCARBON SUBSTANCES AND OTHER MINERALS AND MINERAL ORES OF EVERY KIND AND CHARACTER, WHETHER SIMILAR TO THESE HEREIN SPECIFIED OR NOT, WITHIN OR UNDERLYING, OR WHICH MAY BE PRODUCED FROM THE HEREINDEPOSED DESCRIBED LAND, TOGETHER WITH THE RIGHT TO USE THAT PORTION ONLY OF SAID LAND WHICH UNDERLIES A PLANE PARALLEL TO AND FIVE HUNDRED (500) FEET BELOW THE PRESENT SURFACE OF SAID LAND, FOR THE PURPOSE OF PROSPECTING FOR, DEVELOPING AND/OR EXTRACTING SAID URANIUM, THORIUM, AND OTHER FISSIONABLE MATERIALS, WATER, BRINE, STEAM, SALT, CHEMICALS, OIL, GAS, PETROLEUM, ASPHALTUM, AND OTHER MINERAL OR HYDROCARBON SUBSTANCES FROM SAID LAND, AS RESERVED BY EL TORO LAND AND CATTLE CO., A CORPORATION, BY DEED RECORDED APRIL 21, 1980, IN BOOK 1450, PAGE 478 OF OFFICIAL RECORDS, IT BEING EXPRESSLY UNDERSTOOD AND AGREED THAT SAID EL TORO LAND AND CATTLE CO., ITS SUCCESSORS AND ASSIGNS, SHALL HAVE NO RIGHT TO ENTER UPON THE SURFACE OF SAID LAND, OR TO USE SAID LAND OR ANY PORTION THEREOF TO SAID DEPTH OF FIVE HUNDRED (500) FEET, FOR ANY PURPOSE WHATSOEVER.

PARCEL 2:

AN EASEMENT FOR ROADWAY PURPOSES AND INCIDENTAL PURPOSES, OVER, UPON AND ACROSS THAT PORTION OF THE EAST HALF OF TRACT 45, TOWNSHIP 16 SOUTH, RANGE 14 EAST, SAN BERNARDINO MERIDIAN, ACCORDING TO THE OFFICIAL PLAT THEREOF, LYING EASTERLY OF THE EAST LINE OF THE SOUTHERN PACIFIC RAILROAD COMPANY RIGHT OF WAY, DESCRIBED AS FOLLOWS:

BEGINNING AT THE INTERSECTION OF THE NORTHERLY LINE OF SAID TRACT 45 AND SAID EASTERLY LINE OF THE SOUTHERN PACIFIC RAILROAD COMPANY RIGHT OF WAY, AS SAID INTERSECTION IS SHOWN ON RECORD OF SURVEY FILED IN BOOK 6, PAGES 32 AND 33 OF RECORDS OF SURVEY IN THE OFFICE OF THE COUNTY RECORDER OF SAID COUNTY; THENCE SOUTH 18° 48' 34" EAST, 46.49 FEET, MEASURED ALONG SAID EASTERLY LINE, TO A FOUND ONE INCH IRON PIPE WITH TAG, STAMPED RCE 13484; THENCE NORTH 89° 58' 30" EAST, ALONG A LINE THAT IS PARALLEL WITH AND 44.00 FEET SOUTHERLY, MEASURED AT RIGHT ANGLES FROM SAID NORTHERLY LINE, A DISTANCE OF 318.67 FEET TO A FOUND ONE INCH IRON PIPE, WITH TAG, STAMPED RCE 28447; THENCE NORTH 0° 01' EAST, 9.00 FEET TO A LINE THAT IS PARALLEL WITH AND 35.00 FEET SOUTHERLY, MEASURED AT RIGHT ANGLES FROM SAID NORTHERLY LINE; THENCE ALONG SAID LAST MENTIONED PARALLEL LINE, NORTH 89° 58' 30" EAST, 628.37 FEET TO THE WESTERLY LINE OF THE LAND CONVEYED TO THE COUNTY OF IMPERIAL, BY DEED RECORDED IN BOOK 470, PAGE 507 OF OFFICIAL RECORDS, IN THE OFFICE OF THE COUNTY RECORDER OF SAID COUNTY; THENCE NORTHERLY, ALONG SAID WESTERLY LINE, 35.00 FEET TO SAID NORTHERLY LINE OF TRACT 45; THENCE SOUTH 89° 58' 30" WEST, 961.55 FEET, MEASURED ALONG SAID NORTHERLY LINE, TO THE POINT OF BEGINNING.

PARCEL 3:

THAT PORTION OF THE EAST HALF OF TRACT 45, TOWNSHIP 16 SOUTH, RANGE 14 EAST, SAN BERNARDINO MERIDIAN, ACCORDING TO THE OFFICIAL PLAT THEREOF, LYING EASTERLY OF THE EAST LINE OF THE SOUTHERN PACIFIC RAILROAD COMPANY RIGHT OF WAY, DESCRIBED AS FOLLOWS:

BEGINNING AT A FOUND ONE INCH IRON PIPE, WITH TAG STAMPED RCE 28447, AT THE EASTERLY TERMINUS OF THAT CERTAIN COURSE IN PARCEL 1 DESCRIBED AS HAVING A BEARING AND DISTANCE OF "SOUTH 89° 58' 30" WEST, ALONG A LINE THAT IS PARALLEL WITH AND 44.00 FEET SOUTHERLY, MEASURED AT RIGHT ANGLES FROM SAID NORTHERLY LINE OF TRACT 45, 318.67 FEET" IN THAT CERTAIN GRANT DEED TO CHEVRON GEOTHERMAL COMPANY OF CALIFORNIA, RECORDED FEBRUARY 15, 1983 IN BOOK 1497, PAGE 712 OF OFFICIAL RECORDS, IN THE OFFICE OF THE COUNTY RECORDER OF SAID IMPERIAL COUNTY; THENCE ALONG THE EASTERLY BOUNDARY LINE OF SAID PARCEL 1, SOUTH 00° 01' 00" WEST, 109.76 FEET; THENCE SOUTH 45° 02' 12" EAST, 56.64 FEET; THENCE SOUTH 89° 57' 59" EAST, 57.77 FEET TO A FOUND ONE-INCH IRON PIPE, WITH TAG, STAMPED RCE 28447; THENCE LEAVING SAID EASTERLY BOUNDARY LINE AND ALONG THE NORTHERLY PROLONGATION OF THAT CERTAIN COURSE DESCRIBED AS "NORTH 18° 48' 21" WEST, 187.71 FEET; IN SAID PARCEL 1, NORTH 18° 48' 21" WEST, 65.24 FEET; THENCE NORTH 00° 00' 01" EAST, 97.09 FEET TO A LINE THAT IS PARALLEL WITH AND 35.00 FEET SOUTHERLY, MEASURED AT RIGHT ANGLES FROM THE NORTHERLY LINE OF SAID TRACT 45, SAID LAST MENTIONED PARALLEL LINE ALSO BEING THE SOUTHERLY LINE OF THE ROAD EASEMENT DESCRIBED AND DESIGNATED AS PARCEL 2 IN SAID CERTAIN GRANT DEED; THENCE ALONG SAID LAST MENTIONED PARALLEL LINE, SOUTH 89° 58' 30" WEST, 76.79 FEET; THENCE SOUTH 00° 01' 00" WEST, 9.00 FEET TO THE POINT OF BEGINNING.

EXCEPTING THEREFROM, ALL URANIUM, THORIUM AND OTHER FISSIONABLE MATERIALS, GEOTHERMAL RIGHTS INCLUDING ALL WATER, BRINE, STEAM, SALT AND CHEMICALS, ALL OIL, GAS, PETROLEUM, ASPHALTUM, AND OTHER HYDROCARBON SUBSTANCES AND OTHER MINERALS AND MINERAL ORES OF EVERY KIND AND CHARACTER, WHETHER SIMILAR TO THOSE HEREIN SPECIFIED OR NOT, WITHIN OR UNDERLYING, OR WHICH MAY BE PRODUCED FROM THE HEREINAFORE DESCRIBED LAND, TOGETHER WITH THE RIGHT TO USE THAT PORTION ONLY OF SAID LAND WHICH UNDERLIES A PLANE PARALLEL TO AND FIVE HUNDRED (500) FEET BELOW THE PRESENT SURFACE OF SAID LAND, FOR THE PURPOSE OF PROSPECTING FOR, DEVELOPING AND/OR EXTRACTING SAID URANIUM, THORIUM, AND OTHER FISSIONABLE MATERIALS, WATER, BRINE, STEAM, SALT, CHEMICALS, OIL, GAS, PETROLEUM,

ASPHALTUM, AND OTHER MINERAL OR HYDROCARBON SUBSTANCES FROM SAID LAND, AS RESERVED BY EL TORO LAND AND CATTLE CO., A CORPORATION, BY DEED RECORDED APRIL 21, 1980, IN BOOK 1450, PAGE 478 OF OFFICIAL RECORDS, IT BEING EXPRESSLY UNDERSTOOD AND AGREED THAT SAID EL TORO LAND AND CATTLE CO., ITS SUCCESSORS AND ASSIGNS, SHALL HAVE NO RIGHT TO ENTER UPON THE SURFACE OF SAID LAND, OR TO USE SAID LAND OR ANY PORTION THEREOF TO SAID DEPTH OF FIVE HUNDRED (500) FEET, FOR ANY PURPOSE WHATSOEVER.

Ormat Geothermal

Milestone 1 Document for Dogwood
Grant Deed

Recording requested by (name):

Chicago Title Company

When recorded mail to and mail tax statements to:

Heber Field Company, LLC

6140 Plumas Street

Reno, NV 89519

Chicago Title Company
hereby certifies that the within instrument
is a true and correct copy of the original
instrument recorded in the office of the
recorder of the County of Imperial, State of CA
on 03/27/2023 3:44 PM
Recorders Serial No. 2023-004559
Chicago Title Company
BY Heather Skains

Recorder's Use Only

Grant Deed

Title of Document

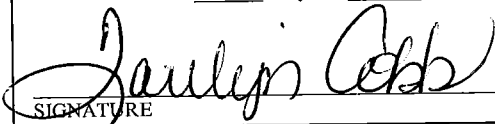
Commencing January 1, 2018, and except as provided in paragraph (2) GC 27388.1, in addition to any other recording fees specified in this code, a fee of seventy-five dollars (\$75) shall be paid at the time of recording of every real estate instrument, paper, or notice required or permitted by law to be recorded, except those expressly exempted from payment of recording fees, per each single transaction per parcel of real property. The fee imposed by this section shall not exceed two hundred twenty-five dollars (\$225). "Real estate instrument, paper, or notice" means a document relating to real property, including, but not limited to, the following: deed, grant deed, trustee's deed, deed of trust, reconveyance, quit claim deed, fictitious deed of trust, assignment of deed of trust, request for notice of default, abstract of judgment, subordination agreement, declaration of homestead, abandonment of homestead, notice of default, release or discharge, easement, notice of trustee sale, notice of completion, UCC financing statement, mechanic's lien, maps, and covenants, conditions, and restrictions. Pursuant to GC section 27388.1 (2) the fee described in paragraph (1) shall not be imposed on any of the following documents:

Reason for Exemption:

- ☒ Any real estate instrument, paper, or notice recorded in connection with a transfer subject to the imposition of a documentary transfer tax as defined in Section 11911 of the Revenue and Taxation Code.
- ☐ Any real estate instrument, paper, or notice recorded in connection with a transfer of real property that is a residential dwelling to an owner-occupier.
- ☐ Any real estate instrument, paper, or notice executed or recorded by the federal government in accordance with the Uniform Federal Lien Registration Act (Title 7(commencing with Section 2100) of Part 4 of the Code of Civil Procedure).
- ☐ Any real estate instrument, paper, or notice executed or recorded by the state or any county, municipality, or other political subdivision of the state.
- ☐ Exempt from fee per GC 27388.1 (a) (1); fee cap of \$225.00 reached.
- ☐ Exempt from fee per GC 27388.1 (a) (1); not related to real property.

I hereby declare under penalty of perjury that the information provided above is true and correct.

Executed this 27th day of March, 2023 at El Centro, CA
CITY STATE


SIGNATURE

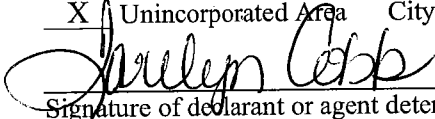
Tarilyn Cobb
PRINT NAME

Documentary Transfer Tax: \$ 3,828.00 If exempt, enter R&T code: _____

☒ Computed on full value of the property conveyed

Computed on full value less liens & encumbrances remaining thereon at time of sale.

☒ Unincorporated Area City of _____


Signature of declarant or agent determining tax

MAIL TAX STATEMENT AS DIRECTED ABOVE

RECORDING REQUESTED BY:
Chicago Title Company

**When Recorded Mail Document
and Tax Statement To:**
Heber Field Company, LLC
6140 Plumas Street
Reno, NV 89519

SPACE ABOVE THIS LINE FOR RECORDER'S USE

Escrow Order No.: 7102301204

APN/Parcel ID(s): 059-020-001-000

GRANT DEED

The undersigned grantor(s) declare(s)

- ☐ This transfer is exempt from the documentary transfer tax.
☒ **The documentary transfer tax is \$3,828.00** and is computed on:
 ☒ the full value of the interest or property conveyed.
 ☐ the full value less the liens or encumbrances remaining thereon at the time of sale.
The property is located in ☒ an Unincorporated area.

FOR A VALUABLE CONSIDERATION, receipt of which is hereby acknowledged, Thomson Foundation Properties, LLC, a California limited liability company

hereby GRANT(S) to Heber Field Company, LLC, a Delaware limited liability company

the following described real property in the Unincorporated Area of the County of Imperial, State of California:

SEE EXHIBIT "A" ATTACHED HERETO AND MADE A PART HEREOF

PROPERTY COMMONLY KNOWN AS: 602 Dogwood Road, Calexico, CA 92231

MAIL TAX STATEMENTS AS DIRECTED ABOVE

GRANT DEED
(continued)

APN/Parcel ID(s): 059-020-001-000

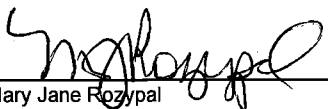
Dated: March 22, 2023

IN WITNESS WHEREOF, the undersigned have executed this document on the date(s) set forth below.

Thomson Foundation Properties, LLC, a California limited liability company

By: Bank of America, N.A., Co-Trustee of the Walter J. and Holly O. Thomson Foundation

Its: Manager


By: Mary Jane Rozypal
Its: Director

A notary public or other officer completing this certificate verifies only the identity of the individual who signed the document to which this certificate is attached, and not the truthfulness, accuracy, or validity of that document.

State of Texas

County of Harris

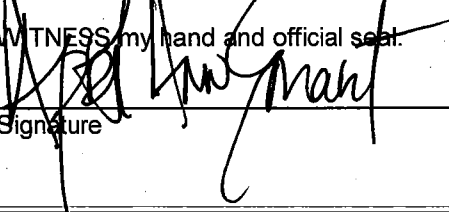
On March 24, 2023 before me, April Ann Smart Notary Public,
(here insert name and title of the officer)

personally appeared Mary Jane Rozypal

who proved to me on the basis of satisfactory evidence to be the person(s) whose name(s) is/are subscribed to the within instrument and acknowledged to me that he/she/they executed the same in his/her/their authorized capacity(ies), and that by his/her/their signature(s) on the instrument the person(s), or the entity upon behalf of which the person(s) acted, executed the instrument.

I certify under PENALTY OF PERJURY under the laws of the State of Texas that the foregoing paragraph is true and correct.

WITNESS my hand and official seal.


Signature

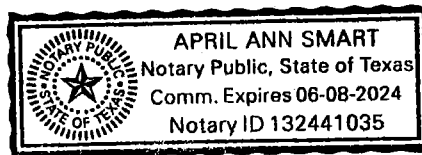


EXHIBIT "A"
Legal Description

For APN/Parcel ID(s): 059-020-001-000

PARCEL 1:

LOT 3 AND 4 AND THE SOUTH HALF OF THE NORTHWEST QUARTER OF SECTION 3, TOWNSHIP 17 SOUTH, RANGE 14 EAST, S.B.M., IN AN UNINCORPORATED AREA OF THE COUNTY OF IMPERIAL, STATE OF CALIFORNIA, ACCORDING TO THE OFFICIAL PLAT THEREOF.

PARCEL 2:

THE WEST HALF OF THE SOUTHWEST QUARTER OF SECTION 3, TOWNSHIP 17 SOUTH, RANGE 14 EAST, S.B.M., IN AN UNINCORPORATED AREA OF THE COUNTY OF IMPERIAL, STATE OF CALIFORNIA, ACCORDING TO THE OFFICIAL PLAT THEREOF.

Ormat Geothermal

Milestone 1 Document for Dogwood
Title Insurance



ISSUING OFFICE: 1425 Main Street, El Centro, CA 92244

FOR SETTLEMENT INQUIRIES, CONTACT: Chicago Title Company
1425 W. Main Street · El Centro, CA 92243
(760)335-3130 · FAX (619)573-1410

March 29, 2023

Heber Field Company, LLC
6140 Plumas Street
Reno, NV 89519

Order No.: 7102301204

Property Address: 602 Dogwood Road, Calexico, CA 92231

Seller: Thomson Foundation Properties, LLC, a California limited liability company

Buyer: Heber Field Company, LLC, a Delaware limited liability company

We appreciate the opportunity of being of service to you. Please call us immediately if you have any questions or concerns.

Sincerely,

Chicago Title Company

Escrow Contact:
Heather Skains
(760)335-3130
heather.skains@ctt.com

Title Contact:
Stacey Benner
(760)335-3125
stacey.benner@ctt.com

CLTA STANDARD COVERAGE POLICY OF TITLE INSURANCE

Issued By:



CHICAGO TITLE INSURANCE COMPANY

Policy Number:

7102301204

SUBJECT TO THE EXCLUSIONS FROM COVERAGE, THE EXCEPTIONS FROM COVERAGE CONTAINED IN SCHEDULE B AND THE CONDITIONS AND STIPULATIONS, CHICAGO TITLE INSURANCE COMPANY, a Florida corporation, herein called the Company, insures, as of Date of Policy shown in Schedule A, against loss or damage, not exceeding the Amount of Insurance stated in Schedule A, sustained or incurred by the insured by reason of:

1. Title to the estate or interest described in Schedule A being vested other than as stated therein;
 2. Any defect in or lien or encumbrance on the title;
 3. Unmarketability of the title;
 4. Lack of a right of access to and from the land;
- and in addition, as to an insured lender only:
5. The invalidity or unenforceability of the lien of the insured mortgage upon the title;
 6. The priority of any lien or encumbrance over the lien of the insured mortgage, said mortgage being shown in Schedule B in the order of its priority;
 7. The invalidity or unenforceability of any assignment of the insured mortgage, provided the assignment is shown in Schedule B, or the failure of the assignment shown in Schedule B to vest title to the insured mortgage in the named insured assignee free and clear of all liens.

The Company will also pay the costs, attorneys' fees and expenses incurred in defense of the title or the lien of the insured mortgage, as insured, but only to the extent provided in the Conditions and Stipulations.

IN WITNESS WHEREOF, CHICAGO TITLE INSURANCE COMPANY has caused this policy to be signed and sealed by its duly authorized officers.

Chicago Title Company
1425 Main Street
El Centro, CA 92244

Countersigned By:

Mark Nassraway
Authorized Officer or Agent



Chicago Title Insurance Company

By:

Michael J. Nolan, President

Attest:

Marjorie Nemzura, Secretary

SCHEDULE A

Date of Policy	Amount of Insurance	Premium
March 27, 2023 at 03:44 PM	\$3,480,000.00	\$5,234.00

1. Name of Insured:

Heber Field Company, LLC, a Delaware limited liability company

2. The estate or interest in the land which is covered by this policy is:

Fee

3. Title to the estate or interest in the land is vested in:

Heber Field Company, LLC, a Delaware limited liability company

4. The land referred to in this policy is described as follows:

For APN/Parcel ID(s): 059-020-001-000

PARCEL 1:

LOT 3 AND 4 AND THE SOUTH HALF OF THE NORTHWEST QUARTER OF SECTION 3, TOWNSHIP 17 SOUTH, RANGE 14 EAST, S.B.M., IN AN UNINCORPORATED AREA OF THE COUNTY OF IMPERIAL, STATE OF CALIFORNIA, ACCORDING TO THE OFFICIAL PLAT THEREOF.

PARCEL 2:

THE WEST HALF OF THE SOUTHWEST QUARTER OF SECTION 3, TOWNSHIP 17 SOUTH, RANGE 14 EAST. S.B.M., IN AN UNINCORPORATED AREA OF THE COUNTY OF IMPERIAL, STATE OF CALIFORNIA, ACCORDING TO THE OFFICIAL PLAT THEREOF.

THIS POLICY VALID ONLY IF SCHEDULE B IS ATTACHED

END OF SCHEDULE A

**SCHEDULE B
EXCEPTIONS FROM COVERAGE**

This policy does not insure against loss or damage (and the Company will not pay costs, attorneys' fees or expenses) which arise by reason of:

PART I

1. Taxes or assessments which are not shown as existing liens by the records of any taxing authority that levies taxes or assessments on real property or by the public records.
Proceedings by a public agency which may result in taxes or assessments, or notices of such proceedings, whether or not shown by the records of such agency or by the public records.
2. Any facts, rights, interests or claims which are not shown by the public records but which could be ascertained by an inspection of the land or which may be asserted by persons in possession thereof.
3. Easements, liens or encumbrances, or claims thereof, which are not shown by the public records.
4. Discrepancies, conflicts in boundary lines, shortage in area, encroachments, or any other facts which a correct survey would disclose, and which are not shown by the public records.
5. (a) Unpatented mining claims; (b) reservations or exceptions in patents or in Acts authorizing the issuance thereof; (c) water rights, claims or title to water, whether or not the matter excepted under (a), (b), or (c) are shown by the public records.
6. Any lien or right to a lien for services, labor or material not shown by the public records.

END OF SCHEDULE B - PART I

**SCHEDULE B
EXCEPTIONS FROM COVERAGE****PART II**

1. Property taxes, which are a lien not yet due and payable, including any assessments collected with taxes to be levied for the fiscal year 2023-2024.
2. The lien of supplemental or escaped assessments of property taxes, if any, made pursuant to the provisions of Chapter 3.5 (commencing with Section 75) or Part 2, Chapter 3, Articles 3 and 4, respectively, of the Revenue and Taxation Code of the State of California as a result of the transfer of title to the vestee named in Schedule A or as a result of changes in ownership or new construction occurring prior to Date of Policy.
3. Taxes and assessments levied by the Imperial Irrigation District, if any.
4. Water rights, claims or title to water, whether or not disclosed by the public records.
5. Rights or claims of easements for canals, drains, laterals, irrigation pipelines and gates not recorded in the public record.
6. Title to, and easements in, any portion of the land lying within any highways, roads, streets, or other ways.
7. Easement(s) for the purpose(s) shown below and rights incidental thereto, as granted in a document:

Granted to: Imperial Irrigation District
Purpose: For a lateral drain, telephone and/or electric power line, together with convenient means of ingress and egress.
Recording Date: March 29, 1934
Recording No.: in book 378, page 564 of Official Records
Affects: Reference is made to said document for full particulars.
8. Easement(s) for the purpose(s) shown below and rights incidental thereto, as granted in a document:

Granted to: Imperial Irrigation District
Purpose: For the purpose of constructing, operating and maintaining a power line, together with a convenient means of ingress and egress.
Recording Date: November 27, 1937
Recording No.: in book 474, page 371 of Official Records
Affects: Reference is made to said document for full particulars.
9. Easement(s) for the purpose(s) shown below and rights incidental thereto, as granted in a document:

Granted to: Imperial Irrigation District
Purpose: For the purpose of constructing, operating and maintaining a power line and necessary appurtenances.
Recording Date: December 8, 1937
Recording No.: 1937-329 of Official Records
Affects: Reference is made to said document for full particulars.

SCHEDULE B
EXCEPTIONS FROM COVERAGE
(continued)

10. Easement(s) for the purpose(s) shown below and rights incidental thereto, as granted in a document:

Granted to: Imperial Irrigation District
Purpose: For canal, telephone and/or electric power lines,
together with right of ingress and egress.
Recording Date: February 15, 1940
Recording No.: 30 in book 543, page 319 of Official Records
Affects: Reference is made to said document for full particulars.

11. Easement(s) for the purpose(s) shown below and rights incidental thereto, as granted in a document:

Granted to: Imperial Irrigation District
Purpose: For canal, telephone and/or electric power lines,
together with convenient means of ingress and egress.
Recording Date: February 15, 1940
Recording No.: in book 543, page 320 of Official Records
Affects: Reference is made to said document for full particulars.

12. Easement(s) for the purpose(s) shown below and rights incidental thereto, as granted in a document:

Granted to: Imperial Water Company No. 1
Purpose: For ditches, canals and laterals.
Recording Date: June 3, 1909
Recording No.: in book 27, page 197 of Deeds
Affects: Reference is made to said document for full particulars.

13. Easement(s) for the purpose(s) shown below and rights incidental thereto, as granted in a document:

Granted to: Southern Sierras Power Company
Purpose: To erect and maintain poles or other supports and incidents thereto.
Recording Date: February 7, 1929
Recording No.: in book 212, page 397 of Official Records
Affects: Reference is made to said document for full particulars.

14. Easement(s) for the purpose(s) shown below and rights incidental thereto, as granted in a document:

Granted to: Southern Sierras Power Company
Purpose: For the purpose of constructing, operating and maintaining a power line
and necessary appurtenances.
Recording Date: March 22, 1929
Recording No.: in book 228, page 149 of Official Records
Affects: Reference is made to said document for full particulars.

15. Easement(s) for the purpose(s) shown below and rights incidental thereto, as granted in a document:

Granted to: County of Imperial
Purpose: For a public highway.
Recording Date: March 14, 1967
Recording No.: 5 in book 1242, page 541 of Official Records
Affects: Reference is made to said document for full particulars.

SCHEDULE B
EXCEPTIONS FROM COVERAGE
(continued)

16. Matters contained in that certain document

Entitled: Agreement
Dated: November 15, 1958
Executed by: Walter J. Thomson Co. Ltd., Luman Grover Ferrell and Pauline Ferrell
Recording Date: January 13, 1970
Recording No.: 44 in book 1288, page 19 of Official Records

Reference is hereby made to said document for full particulars.

17. An unrecorded lease with certain terms, covenants, conditions and provisions set forth therein as disclosed by the document

Entitled: Memorandum of Lease and Agreement
Lessor: Walter J. Thomson Co. Ltd.
Lessee: Union Oil Company of California, a California corporation
Recording Date: April 11, 1972
Recording No.: 86 in book 1325, page 1033 of Official Records

The present ownership of the leasehold created by said lease and other matters affecting the interest of the lessee are not shown herein.

An agreement to amend or modify certain provisions of said lease, as set forth in the document executed by:

As Lessor: Walter J. Thomson Co. Ltd.
As Lessee: Union Oil Company of California, a California corporation
Dated: June 21, 1976
Recording Date: October 27, 1976
Recording No.: 146 in book 1393, page 1291 of Official Records

An agreement to amend or modify certain provisions of said lease, as set forth in the document executed by:

As Lessor: Walter J. Thomson, as Trustee for the Walter J. and Holly O. Thomson 1978 Trust
As Lessee: Heber Field Company, a California general partnership
Dated: December 2, 2004
Recording Date: November 17, 2005
Recording No.: 2005-046318 of Official Records

18. Matters contained in that certain document

Entitled: Agreement for Pipe Service
Dated: December 19, 1975
Executed by: Walter J. Thomson Co. Ltd. and the Imperial Irrigation District
Recording Date: February 4, 1976
Recording No.: 14 in book 1383, page 1469 of Official Records

Reference is hereby made to said document for full particulars.

SCHEDULE B
EXCEPTIONS FROM COVERAGE
(continued)

19. Easement(s) for the purpose(s) shown below and rights incidental thereto, as granted in a document:

Granted to: Imperial Irrigation District
Purpose: For the construction, maintenance and/or use of a concrete lined canal or canals, open and/or underground, telephone and/or electric power line or lines, overhead and/or underground, as now exist or as may hereafter be constructed, enlarged or otherwise changed.
Recording Date: May 1, 1984
Recording No.: 67 in book 1521, page 101 of Official Records
Affects: Reference is made to said document for full particulars.

20. Matters contained in that certain document

Entitled: Agreement for Conditional Use Permit #06-0013
Ormat Nevada, Inc.
Dated: July 12, 2006
Executed by: ORMAT Nevada, Inc. and the County of Imperial
Recording Date: July 28, 2006
Recording No.: 2006-035980 of Official Records

Reference is hereby made to said document for full particulars.

21. Matters contained in that certain document

Entitled: Short Form of Pipeline Easement and Well
Dated: May 16, 2008
Executed by: Bank of America, N.A. as Successor Co-Trustee \$ Walter Thomson, as Co-Trustee of the Walter J. & Holly D. Thomson Trust under Agreement dated 1978 as amended and Heber Field Company, a California general partnership
Recording Date: May 16, 2008
Recording No.: 2008-013749 of Official Records

Reference is hereby made to said document for full particulars.

22. An unrecorded lease with certain terms, covenants, conditions and provisions set forth therein as disclosed by the document

Entitled: Surface Use Lease Agreement
Lessor: Bank of America N.A., as Successor Co-Trustee & Walter Thomson as Co-Trustee if tge Walter J. & Holly D. Thomson Trust under Agreement dated 1978 as Amended
Lessee: Heber Field Company
Recording No.: Unrecorded

The present ownership of the leasehold created by said lease and other matters affecting the interest of the lessee are not shown herein.

SCHEDULE B
EXCEPTIONS FROM COVERAGE
(continued)

23. An unrecorded lease with certain terms, covenants, conditions and provisions set forth therein as disclosed by the document

Entitled: Surface Use Lease Agreement
Lessor: Walter J. Thomson, as Trust for Walter J. and Holly O. Thomson 1978 Trust
Lessee: Heber Field Company
Recording No.: Unrecorded

The present ownership of the leasehold created by said lease and other matters affecting the interest of the lessee are not shown herein.

24. An unrecorded lease with certain terms, covenants, conditions and provisions set forth therein as disclosed by the document

Entitled: First Amendment to Farm Lease
Lessor: Thomson Foundation Properties, LLC
Lessee: Madjac Farms
Recording No.: Unrecorded

The present ownership of the leasehold created by said lease and other matters affecting the interest of the lessee are not shown herein.

END OF SCHEDULE B - PART II

EXCLUSIONS FROM COVERAGE

The following matters are expressly excluded from the coverage of this policy and the Company will not pay loss or damage, costs, attorneys' fees or expenses which arise by reason of:

1. (a) Any law, ordinance or governmental regulation (including but not limited to building or zoning laws, ordinances, or regulations) restricting, regulating, prohibiting or relating to (i) the occupancy, use, or enjoyment of the land; (ii) the character, dimensions or location of any improvement now or hereafter erected on the land, (iii) a separation in ownership or a change in the dimensions or area of the land or any parcel of which the land is or was a part; or (iv) environmental protection, or the effect of any violation of these laws, ordinances or governmental regulations, except to the extent that a notice of the enforcement thereof or a notice of a defect, lien or encumbrance resulting from a violation or alleged violation affecting the land has been recorded in the public records at Date of Policy.
- (b) Any governmental police power not excluded by (a) above, except to the extent that notice of the exercise thereof or a notice of a defect, lien or encumbrance resulting from a violation or alleged violation affecting the land has been recorded in the public records at Date of Policy.
2. Rights of eminent domain unless notice of the exercise thereof has been recorded in the public records at Date of Policy, but not excluding from coverage any taking which has occurred prior to Date of Policy which would be binding on the rights of a purchaser for value without knowledge.
3. Defects, liens, encumbrances, adverse claims or other matters:
 - (a) whether or not recorded in the public records at Date of Policy, but created, suffered, assumed or agreed to by the insured claimant;
 - (b) not known to the Company, not recorded in the public records at Date of Policy, but known to the insured claimant and not disclosed in writing to the Company by the insured claimant prior to the date the insured claimant became an insured under this policy;
 - (c) resulting in no loss or damage to the insured claimant;
 - (d) attaching or created subsequent to Date of Policy; or
 - (e) resulting in loss or damage which would not have been sustained if the insured claimant had paid value for the insured mortgage or for the estate or interest insured by this policy.
4. Unenforceability of the lien of the insured mortgage because of the inability or failure of the insured at Date of Policy, or the inability or failure of any subsequent owner of the indebtedness, to comply with the applicable doing business laws of the state in which the land is situated.
5. Invalidity or unenforceability of the lien of the insured mortgage, or claim thereof, which arises out of the transaction evidenced by the insured mortgage and is based upon usury or any consumer credit protection or truth in lending law.
6. Any claim, which arises out of the transaction vesting in the insured the estate or interest insured by this policy or the transaction creating the interest of the insured lender, by reason of the operation of federal bankruptcy, state insolvency or similar creditors' rights laws.

CONDITIONS AND STIPULATIONS**1. DEFINITION OF TERMS**

The following terms when used in this policy mean:

- (a) "insured": the insured named in Schedule A, and, subject to any rights or defenses the Company would have had against the named insured, those who succeed to the interest of the named insured by operation of law as distinguished from purchase including, but not limited to, heirs, distributees, devisees, survivors, personal representatives, next of kin, or corporate or fiduciary successors. The term "insured" also includes:
 - (i) the owner of the indebtedness secured by the insured mortgage and each successor in ownership of the indebtedness except a successor who is an obligor under the provisions of Section 12(c) of these Conditions and Stipulations (reserving, however, all rights and defenses as to any successor that the Company would have had against any predecessor insured, unless the successor acquired the indebtedness as a purchaser for value without knowledge of the asserted defect, lien, encumbrance, adverse claim or other matter insured against by this policy as affecting title to the estate or interest in the land);
 - (ii) any governmental agency or governmental instrumentality which is an insurer or guarantor under an insurance contract or guaranty insuring or guaranteeing the indebtedness secured by the insured mortgage, or any part thereof, whether named as an insured herein or not;
 - (iii) the parties designated in Section 2(a) of these Conditions and Stipulations.
 - (iv) Subject to any rights or defenses the Company would have had against the named insured, (A) the spouse of an insured who receives title to the land because of dissolution of marriage, (B) the trustee or successor trustee of a trust or any estate planning entity created for the insured to whom or to which the insured transfers title to the land after the Date of Policy or (C) the beneficiaries of such a trust upon the death of the insured.
- (b) "insured claimant": an insured claiming loss or damage.
- (c) "insured lender": the owner of an insured mortgage.
- (d) "insured mortgage": a mortgage shown in Schedule B, the owner of which is named as an insured in Schedule A.
- (e) "knowledge" or "known": actual knowledge, not constructive knowledge or notice which may be imputed to an insured by reason of the public records as defined in this policy or any other records which impart constructive notice of matters affecting the land.
- (f) "land": the land described or referred to in Schedule A, and improvements affixed thereto which by law constitute real property. The term "land" does not include any property beyond the lines of the area described or referred to in Schedule A, nor any right, title, interest, estate or easement in abutting streets, roads, avenues, alleys, lanes, ways or waterways, but nothing herein shall modify or limit the extent to which a right of access to and from the land is insured by this policy.
- (g) "mortgage": mortgage, deed of trust, trust deed, or other security instrument.
- (h) "public records": records established under state statutes at Date of Policy for the purpose of imparting constructive notice of matters relating to real property to purchasers for value and without knowledge.

(continued)

- (i) "unmarketability of the title": an alleged or apparent matter affecting the title to the land, not excluded or excepted from coverage, which would entitle a purchaser of the estate or interest described in Schedule A or the insured mortgage to be released from the obligation to purchase by virtue of a contractual condition requiring the delivery of marketable title.

2. CONTINUATION OF INSURANCE

(a) After Acquisition of Title by Insured Lender.

If this policy insures the owner of the indebtedness secured by the insured mortgage, the coverage of this policy shall continue in force as of Date of Policy in favor of (i) such insured lender who acquires all or any part of the estate or interest in the land by foreclosure, trustee's sale, conveyance in lieu of foreclosure, or other legal manner which discharges the lien of the insured mortgage; (ii) a transferee of the estate or interest so acquired from an insured corporation, provided the transferee is the parent or wholly-owned subsidiary of the insured corporation, and their corporate successors by operation of law and not by purchase, subject to any rights or defenses the Company may have against any predecessor insureds; and (iii) any governmental agency or governmental instrumentality which acquires all or any part of the estate or interest pursuant to a contract of insurance or guaranty insuring or guaranteeing the indebtedness secured by the insured mortgage.

(b) After Conveyance of Title by an Insured.

The coverage of this policy shall continue in force as of Date of Policy in favor of an insured only so long as the insured retains an estate or interest in the land, or holds an indebtedness secured by a purchase money mortgage given by a purchaser from the insured, or only so long as the insured shall have liability by reason of covenants of warranty made by the insured in any transfer or conveyance of the estate or interest. This policy shall not continue in force in favor of any purchaser from an insured of either (i) an estate or interest in the land, or (ii) an indebtedness secured by a purchase money mortgage given to an insured.

(c) Amount of Insurance.

The amount of insurance after the acquisition or after the conveyance by an insured lender shall in neither event exceed the least of:

- (i) The amount of insurance stated in Schedule A;
- (ii) The amount of the principal of the indebtedness secured by the insured mortgage as of Date of Policy, interest thereon, expenses of foreclosure, amounts advanced pursuant to the insured mortgage to assure compliance with laws or to protect the lien of the insured mortgage prior to the time of acquisition of the estate or interest in the land and secured thereby and reasonable amounts expended to prevent deterioration of improvements, but reduced by the amount of all payments made; or
- (iii) The amount paid by any governmental agency or governmental instrumentality, if the agency or the instrumentality is the insured claimant, in the acquisition of the estate or interest in satisfaction of its insurance contract or guaranty.

3. NOTICE OF CLAIM TO BE GIVEN BY INSURED CLAIMANT

An insured shall notify the Company promptly in writing (i) in case of any litigation as set forth in 4(a) below, (ii) in case knowledge shall come to an insured hereunder of any claim of title or interest which is adverse to the title to the estate or interest or the lien of the insured mortgage, as insured, and which might cause loss or damage for which the Company may be liable by virtue of this policy, or (iii) if title to the estate or interest or the lien of the insured mortgage, as insured, is rejected as unmarketable. If prompt notice shall not be given to the Company, then as to that insured all liability of the Company shall terminate with regard to the matter or matters for which prompt notice is required; provided, however, that failure to notify the Company shall in no case prejudice the rights of any insured under this policy unless the Company shall be prejudiced by the failure and then only to the extent of the prejudice.

4. DEFENSE AND PROSECUTION OF ACTIONS; DUTY OF INSURED CLAIMANT TO COOPERATE

- (a) Upon written request by an insured and subject to the options contained in Section 6 of these Conditions and Stipulations, the Company, at its own cost and without unreasonable delay, shall provide for the defense of such insured in litigation in which any third party asserts a claim adverse to the title or interest as insured, but only as to those stated causes of action alleging a defect, lien or encumbrance or other matter insured against by this policy. The Company shall have the right to select counsel of its choice (subject to the right of such insured to object for reasonable cause) to represent the insured as to those stated causes of action and shall not be liable for and will not pay the fees of any other counsel. The Company will not pay any fees, costs or expenses incurred by an insured in the defense of those causes of action which allege matters not insured against by this policy.
- (b) The Company shall have the right, at its own cost, to institute and prosecute any action or proceeding or to do any other act which in its opinion may be necessary or desirable to establish the title to the estate or interest or the lien of the insured mortgage, as insured, or to prevent or reduce loss or damage to an insured. The Company may take any appropriate action under the terms of this policy, whether or not it shall be liable hereunder, and shall not thereby concede liability or waive any provision of this policy. If the Company shall exercise its rights under this paragraph, it shall do so diligently,
- (c) Whenever the Company shall have brought an action or interposed a defense as required or permitted by the provisions of this policy, the Company may pursue any litigation to final determination by a court of competent jurisdiction and expressly reserves the right, in its sole discretion, to appeal from any adverse judgment or order.
- (d) In all cases where this policy permits or requires the Company to prosecute or provide for the defense of any action or proceeding, an insured shall secure to the Company the right to so prosecute or provide defense in the action or proceeding, and all appeals therein, and permit the Company to use, at its option, the name of such insured for this purpose. Whenever requested by the Company, an insured, at the Company's expense, shall give the Company all reasonable aid (i) in any action or proceeding, securing evidence, obtaining witnesses, prosecuting or defending the action or proceeding, or effecting settlement, and (ii) in any other lawful act which in the opinion of the Company may be necessary or desirable to establish the title to the estate or interest or the lien of the insured mortgage, as insured. If the Company is prejudiced by the failure of an insured to furnish the required cooperation, the Company's obligations to such insured under the policy shall terminate, including any liability or obligation to defend, prosecute, or continue any litigation, with regard to the matter or matters requiring such cooperation.

(continued)

5. PROOF OF LOSS OR DAMAGE

In addition to and after the notices required under Section 3 of these Conditions and Stipulations have been provided the Company, a proof of loss or damage signed and sworn to by each insured claimant shall be furnished to the Company within ninety (90) days after the insured claimant shall ascertain the facts giving rise to the loss or damage. The proof of loss or damage shall describe the defect in, or lien or encumbrance on the title, or other matter insured against by this policy which constitutes the basis of loss or damage and shall state, to the extent possible, the basis of calculating the amount of the loss or damage. If the Company is prejudiced by the failure of an insured claimant to provide the required proof of loss or damage, the Company's obligations to such insured under the policy shall terminate, including any liability or obligation to defend, prosecute, or continue any litigation, with regard to the matter or matters requiring such proof of loss or damage.

In addition, an insured claimant may reasonably be required to submit to examination under oath by any authorized representative of the Company and shall produce for examination, inspection and copying, at such reasonable times and places as may be designated by any authorized representative of the Company, all records, books, ledgers, checks, correspondence and memoranda, whether bearing a date before or after Date of Policy, which reasonably pertain to the loss or damage. Further, if requested by any authorized representative of the Company, the insured claimant shall grant its permission, in writing, for any authorized representative of the Company to examine, inspect and copy all records, books, ledgers, checks, correspondence and memoranda in the custody or control of a third party, which reasonably pertain to the loss or damage. All information designated as confidential by an insured claimant provided to the Company pursuant to this Section shall not be disclosed to others unless, in the reasonable judgment of the Company, it is necessary in the administration of the claim. Failure of an insured claimant to submit for examination under oath, produce other reasonably requested information or grant permission to secure reasonably necessary information from third parties as required in this paragraph, unless prohibited by law or governmental regulation, shall terminate any liability of the Company under this policy as to that insured for that claim.

6. OPTIONS TO PAY OR OTHERWISE SETTLE CLAIMS; TERMINATION OF LIABILITY

In case of a claim under this policy, the Company shall have the following additional options:

(a) To Pay or Tender Payment of the Amount of Insurance or to Purchase the Indebtedness.

- (i) to pay or tender payment of the amount of insurance under this policy together with any costs, attorneys' fees and expenses incurred by the insured claimant, which were authorized by the Company, up to the time of payment or tender of payment and which the Company is obligated to pay; or
- (ii) in case loss or damage is claimed under this policy by the owner of the indebtedness secured by the insured mortgage, to purchase the indebtedness secured by the insured mortgage for the amount owing thereon together with any costs, attorneys' fees and expenses incurred by the insured claimant which were authorized by the Company up to the time of purchase and which the Company is obligated to pay.

If the Company offers to purchase the indebtedness as herein provided, the owner of the indebtedness shall transfer, assign, and convey the indebtedness and the insured mortgage, together with any collateral security, to the Company upon payment therefor.

Upon the exercise by the Company of the option provided for in paragraph a(i), all liability and obligations to the insured under this policy, other than to make the payment required in that paragraph, shall terminate, including any liability or obligation to defend, prosecute, or continue any litigation, and the policy shall be surrendered to the Company for cancellation.

Upon the exercise by the Company of the option provided for in paragraph a(ii) the Company's obligation to an insured Lender under this policy for the claimed loss or damage, other than the payment required to be made, shall terminate, including any liability or obligation to defend, prosecute or continue any litigation.

(b) To Pay or Otherwise Settle with Parties Other than the Insured or With the Insured Claimant.

- (i) to pay or otherwise settle with other parties for or in the name of an insured claimant any claim insured against under this policy, together with any costs, attorneys' fees and expenses incurred by the insured claimant which were authorized by the Company up to the time of payment and which the Company is obligated to pay; or
- (ii) to pay or otherwise settle with the insured claimant the loss or damage provided for under this policy, together with any costs, attorneys' fees and expenses incurred by the insured claimant which were authorized by the Company up to the time of payment and which the Company is obligated to pay.

Upon the exercise by the Company of either of the options provided for in paragraphs b(i) or b(ii), the Company's obligations to the insured under this policy for the claimed loss or damage, other than the payments required to be made, shall terminate, including any liability or obligation to defend, prosecute or continue any litigation.

7. DETERMINATION AND EXTENT OF LIABILITY

This policy is a contract of indemnity against actual monetary loss or damage sustained or incurred by the insured claimant who has suffered loss or damage by reason of matters insured against by this policy and only to the extent herein described.

(a) The liability of the Company under this policy to an insured lender shall not exceed the least of:

- (i) the Amount of Insurance stated in Schedule A, or, if applicable, the amount of insurance as defined in Section 2(c) of these Conditions and Stipulations;
- (ii) the amount of the unpaid principal indebtedness secured by the insured mortgage as limited or provided under Section 8 of these Conditions and Stipulations or as reduced under Section 9 of these Conditions and Stipulations, at the time the loss or damage insured against by this policy occurs, together with interest thereon; or
- (iii) the difference between the value of the insured estate or interest as insured and the value of the insured estate or interest subject to the defect, lien or encumbrance insured against by this policy.

(b) In the event the insured lender has acquired the estate or interest in the manner described in Section 2(a) of these Conditions and Stipulations or has conveyed the title, then the liability of the Company shall continue as set forth in Section 7(a) of these Conditions and Stipulations.

(continued)

- (c) The liability of the Company under this policy to an insured owner of the estate or interest in the land described in Schedule A shall not exceed the least of:
 - (i) the Amount of Insurance stated in Schedule A; or,
 - (ii) the difference between the value of the insured estate or interest as insured and the value of the insured estate or interest subject to the defect, lien or encumbrance insured against by this policy.
- (d) The Company will pay only those costs, attorneys' fees and expenses incurred in accordance with Section 4 of these Conditions and Stipulations.

8. LIMITATION OF LIABILITY

- (a) If the Company establishes the title, or removes the alleged defect, lien or encumbrance, or cures the lack of a right of access to or from the land, or cures the claim of unmarketability of title, or otherwise establishes the lien of the insured mortgage, all as insured, in a reasonably diligent manner by any method, including litigation and the completion of any appeals therefrom, it shall have fully performed its obligations with respect to that matter and shall not be liable for any loss or damage caused thereby.
- (b) In the event of any litigation, including litigation by the Company or with the Company's consent, the Company shall have no liability for loss or damage until there has been a final determination by a court of competent jurisdiction, and disposition of all appeals therefrom, adverse to the title, or, if applicable, to the lien of the insured mortgage, as insured.
- (c) The Company shall not be liable for loss or damage to any insured for liability voluntarily assumed by the insured in settling any claim or suit without the prior written consent of the Company.
- (d) The Company shall not be liable to an insured lender for: (i) any indebtedness created subsequent to Date of Policy except for advances made to protect the lien of the insured mortgage and secured thereby and reasonable amounts expended to prevent deterioration of improvements; or (ii) construction loan advances made subsequent to Date of Policy, except construction loan advances made subsequent to Date of Policy for the purpose of financing in whole or in part the construction of an improvement to the land which at Date of Policy were secured by the insured mortgage and which the insured was and continued to be obligated to advance at and after Date of Policy.

9. REDUCTION OF INSURANCE; REDUCTION OR TERMINATION OF LIABILITY

- (a) All payments under this policy, except payments made for costs, attorneys' fees and expenses, shall reduce the amount of insurance pro tanto. However, as to an insured lender, any payments made prior to the acquisition of title to the estate or interest as provided in Section 2(a) of these Conditions and Stipulations shall not reduce pro tanto the amount of insurance afforded under this policy as to any such insured, except to the extent that the payments reduce the amount of the indebtedness secured by the insured mortgage.
- (b) Payment in part by any person of the principal of the indebtedness, or any other obligation secured by the insured mortgage, or any voluntary partial satisfaction or release of the insured mortgage, to the extent of the payment, satisfaction or release, shall reduce the amount of insurance pro tanto. The amount of insurance may thereafter be increased by accruing interest and advances made to protect the lien of the insured mortgage and secured thereby, with interest thereon, provided in no event shall the amount of insurance be greater than the Amount of Insurance stated in Schedule A.
- (c) Payment in full by any person or the voluntary satisfaction or release of the insured mortgage shall terminate all liability of the Company to an insured lender except as provided in Section 2(a) of these Conditions and Stipulations.

10. LIABILITY NONCUMULATIVE

It is expressly understood that the amount of insurance under this policy shall be reduced by any amount the Company may pay under any policy insuring a mortgage to which exception is taken in Schedule B or to which the insured has agreed, assumed, or taken subject, or which is hereafter executed by an insured and which is a charge or lien on the estate or interest described or referred to in Schedule A, and the amount so paid shall be deemed a payment under this policy to the insured owner.

The provisions of this Section shall not apply to an insured lender, unless such insured acquires title to said estate or interest in satisfaction of the indebtedness secured by an insured mortgage.

11. PAYMENT OF LOSS

- (a) No payment shall be made without producing this policy for endorsement of the payment unless the policy has been lost or destroyed, in which case proof of loss or destruction shall be furnished to the satisfaction of the Company.
- (b) When liability and the extent of loss or damage has been definitely fixed in accordance with these Conditions and Stipulations, the loss or damage shall be payable within thirty (30) days thereafter.

12. SUBROGATION UPON PAYMENT OR SETTLEMENT**(a) The Company's Right of Subrogation.**

Whenever the Company shall have settled and paid a claim under this policy, all right of subrogation shall vest in the Company unaffected by any act of the insured claimant.

The Company shall be subrogated to and be entitled to all rights and remedies which the insured claimant would have had against any person or property in respect to the claim had this policy not been issued. If requested by the Company, the insured claimant shall transfer to the Company all rights and remedies against any person or property necessary in order to perfect this right of subrogation. The insured claimant shall permit the Company to sue, compromise or settle in the name of the insured claimant and to use the name of the insured claimant in any transaction or litigation involving these rights or remedies.

If a payment on account of a claim does not fully cover the loss of the insured claimant, the Company shall be subrogated (i) as to an insured owner, to all rights and remedies in the proportion which the Company's payment bears to the whole amount of the loss; and (ii) as to an insured lender, to all rights and remedies of the insured claimant after the insured claimant shall have recovered its principal, interest, and costs of collection.

If loss should result from any act of the insured claimant, as stated above, that act shall not void this policy, but the Company, in that event, shall be required to pay only that part of any losses insured against by this policy which shall exceed the amount, if any, lost to the Company by reason of the impairment by the insured claimant of the Company's right of subrogation.

(continued)

(b) The Insured's Rights and Limitations.

Notwithstanding the foregoing, the owner of the indebtedness secured by an insured mortgage, provided the priority of the lien of the insured mortgage or its enforceability is not affected, may release or substitute the personal liability of any debtor or guarantor, or extend or otherwise modify the terms of payment, or release a portion of the estate or interest from the lien of the insured mortgage, or release any collateral security for the indebtedness.

When the permitted acts of the insured claimant occur and the insured has knowledge of any claim of title or interest adverse to the title to the estate or interest or the priority or enforceability of the lien of an insured mortgage, as insured, the Company shall be required to pay only that part of any losses insured against by this policy which shall exceed the amount, if any, lost to the Company by reason of the impairment by the insured claimant of the Company's right of subrogation.

(c) The Company's Rights Against Non-insured Obligors.

The Company's right of subrogation against non-insured obligors shall exist and shall include, without limitation, the rights of the insured to indemnities, guaranties, other policies of insurance or bonds, notwithstanding any terms or conditions contained in those instruments which provide for subrogation rights by reason of this policy.

The Company's right of subrogation shall not be avoided by acquisition of an insured mortgage by an obligor (except an obligor described in Section 1(a)(ii) of these Conditions and Stipulations) who acquires the insured mortgage as a result of an indemnity, guarantee, other policy of insurance, or bond and the obligor will not be an insured under this policy, notwithstanding Section 1(a)(i) of these Conditions and Stipulations.

13. ARBITRATION

Unless prohibited by applicable law, either the Company or the insured may demand arbitration pursuant to the Title Insurance Arbitration Rules of the American Arbitration Association. Arbitrable matters may include, but are not limited to, any controversy or claim between the Company and the insured arising out of or relating to this policy, any service of the Company in connection with its issuance or the breach of a policy provision or other obligation. All arbitrable matters when the Amount of Insurance is One Million And No/100 Dollars (\$1,000,000) or less shall be arbitrated at the option of either the Company or the insured. All arbitrable matters when the Amount of Insurance is in excess of One Million And No/100 Dollars (\$1,000,000) shall be arbitrated only when agreed to by both the Company and the insured. Arbitration pursuant to this policy and under the Rules in effect on the date the demand for arbitration is made or, at the option of the insured, the Rules in effect at Date of Policy shall be binding upon the parties. The award may include attorneys' fees only if the laws of the state in which the land is located permit a court to award attorneys' fees to a prevailing party. Judgment upon the award rendered by the Arbitrator(s) may be entered in any court having jurisdiction thereof.

The law of the situs of the land shall apply to an arbitration under the Title Insurance Arbitration Rules.

A copy of the Rules may be obtained from the Company upon request.

14. LIABILITY LIMITED TO THIS POLICY; POLICY ENTIRE CONTRACT

- (a) This policy together with all endorsements, if any, attached hereto by the Company is the entire policy and contract between the insured and the Company. In interpreting any provision of this policy, this policy shall be construed as a whole.
- (b) Any claim of loss or damage, whether or not based on negligence, and which arises out of the status of the lien of the insured mortgage or of the title to the estate or interest covered hereby or by any action asserting such claim, shall be restricted to this policy.
- (c) No amendment of or endorsement to this policy can be made except by a writing endorsed hereon or attached hereto signed by either the President, a Vice President, the Secretary, an Assistant Secretary, or validating officer or authorized signatory of the Company.

15. SEVERABILITY

In the event any provision of the policy is held invalid or unenforceable under applicable law, the policy shall be deemed not to include that provision and all other provisions shall remain in full force and effect.

16. NOTICES, WHERE SENT

All notices required to be given the Company and any statement in writing required to be furnished the Company shall include the number of this policy and shall be addressed to the Company at:

Chicago Title Insurance Company
P.O. Box 45023
Jacksonville, FL 32232-5023
Attn: Claims Department

END OF CONDITIONS AND STIPULATIONS



Appendix D

CleanPowerSF Confidential Appendix

Withheld based on Motion of CleanPowerSF
for Leave to File Under Seal Confidential Information Filed
on June 3, 2024