



Evaluation Report of Load Serving Entities' Compliance with 2022 Resource Adequacy Requirements

November 12, 2021

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1. Summary of review

The ISO has reviewed and evaluated the aggregate 2022 annual Resource Adequacy (RA) Plans of load serving entities (LSEs) received as of November 9, 2021 to assess compliance with annual Local, System and Flex Resource Adequacy requirements. In addition, the ISO has evaluated the effectiveness of the Resource Adequacy Resources and RMR resources that have been procured by LSEs to assess compliance in Local Capacity Areas with the Local Capacity Technical Study criteria as required by Tariff Sections 43.2.1.1 and 43.2.2. The ISO's evaluation has identified individual LSE and collective capacity deficiencies in several Local Capacity Areas in the PG&E TAC Area. The ISO's evaluation shows aggregate compliance with the LCR criteria in the SCE, SDG&E, VEA and MWD TAC Areas. A deficiency occurs when the aggregate portfolio of Resource Adequacy Resources that has been procured, including RMR resources, fails to satisfy the adopted reliability criteria in a Local Capacity Area. The tariff provides an opportunity for LSEs to cure individual or collective deficiencies before the ISO can engage in any backstop procurement.

The ISO notes that the deficient LSEs are not required to purchase capacity from specific units, which are identified as being able to satisfy the LCR criteria for purposes of meeting individual deficiencies. LSEs (including those deficient at this time) can purchase capacity from any resources with a local attribute in the TAC Area. However, to the extent that the aggregate LSE showings do not comprise the right mix of resources that meet the LCR criteria and ISO effectiveness needs, a deficiency may exist that would cause the ISO to procure individual and/or collective backstop capacity.

2. Resource Adequacy requirements

The following provides the assessment of the aggregate 2022 annual Resource Adequacy (RA) Plans of load serving entities (LSEs) and identified shortfalls for system, flex and local capacity Resource Adequacy requirements.

2.1 System Resource Adequacy requirements

The ISO's evaluation shows aggregate compliance with the year ahead RA requirement for all five summer months except September. Currently there is a system RA shortage in September of 107.80 MW.

2.2 Flex Resource Adequacy requirements

The ISO's evaluation shows aggregate compliance with the year ahead flex RA requirement for all months.

2.3 Local Resource Adequacy requirements

The LSEs year-ahead RA showings evaluation was performed with the same assumptions as the 2022 LCR report that was used to give LSEs their LCR allocations, namely the LCR report dated April 30, 2021 <http://www.caiso.com/Documents/Final2022LocalCapacityTechnicalReport.pdf>. The LSEs and suppliers are subject to the RA replacement requirement and are subject to ISO capacity procurement mechanism backstop authority as approved by FERC.

2.3.2 Southern California Edison (SCE) TAC Area

The ISO's evaluation shows aggregate compliance with the LCR criteria.

2.3.3 San Diego Gas and Electric (SDG&E) TAC Area

The ISO's evaluation shows aggregate compliance with the LCR criteria.

2.3.4 Pacific Gas and Electric (PG&E) TAC Area

The following is a summary of the deficiencies in the PG&E TAC area.

1. The remaining local Resource Adequacy technical need in the PG&E TAC Area totals 308.41 MW.
2. At this time, individual LSE local deficiencies in the PG&E TAC Area total 481.02 MW.
3. At this time, the collective deficiency can only be given as a range (see page 1 paragraph 2 above) from a minimum deficiency of 0.00 MW to a maximum deficiency of 308.41 MW. If the individual deficient LSE purchase capacity from local resources to fill their shortfall and at the same time those resources meet the remaining technical need than collective deficiency will be minimized, but if not, then the collective deficiency could reach the maximum.

Need explanation by non-compliant area(s) and sub-area(s):

Bay Area:

An additional 46.97 MW is needed, from the relevant resources listed in Appendix A, in order to satisfy the LCR criteria. The remaining technical need is driven by:

- San Jose sub-area: with remaining need of 29.40 MW
- Bay Area overall: with remaining need of 46.97 MW

Sierra Area:

An additional 44.24 MW is needed, from the relevant resources listed in Appendix A, in order to satisfy the LCR criteria. The entire remaining technical need is driven by these sub-areas:

- Drum-Rio Oso sub-area: with remaining need of 34.40 MW
- Gold Hill-Drum sub-area: with remaining need of 9.84 MW

North Coast/North Bay Area:

An additional 170.57 MW is needed, from the relevant resources listed in Appendix A, in order to satisfy the LCR criteria. The remaining technical need is driven by:

- North Coast/North Bay overall: with remaining need of 170.57 MW

Stockton Area:

An additional 3.65 MW is needed, from the relevant resources listed in Appendix A, in order to satisfy the LCR criteria. The entire remaining technical need is driven by these sub-areas:

- Tesla-Bellota sub-area with remaining need of 3.65 MW

Fresno Area:

An additional 12.97 MW is needed, from the relevant resources listed in Appendix A, in order to satisfy the LCR criteria. The entire remaining technical need is driven by these sub-areas:

- Borden sub-area: with remaining need of 0.01 MW
- Wilson 115 kV sub-area: with remaining need of 12.96 MW

Kern Area:

An additional 19.58 MW is needed, from the relevant resources listed in Appendix A, in order to satisfy the LCR criteria. The remaining technical need is driven by one sub-area:

- South Kern PP sub-area: with remaining need of 19.58 MW

3. Process for curing a Collective Deficiency:

For purposes of curing a collective deficiency, a Scheduling Coordinator for an LSE may submit a revised annual Resource Adequacy Plan by **December 13, 2021**, to demonstrate the procurement of additional Local Capacity Area Resources consistent with this notice in order to resolve the collective deficiency as provided by Tariff Section 43.2.2.1. Any Scheduling Coordinator for an LSE that provides such additional Local Capacity Area Resources consistent with this market notice shall have its share of any backstop procurement costs reduced on a proportionate basis in accordance with the Tariff. If the full quantity of capacity in the deficient Local Capacity Areas is not reported to the ISO under revised annual Resource Adequacy Plans, the ISO may engage in backstop procurement sufficient to alleviate the collective deficiency.

Scheduling Coordinators for LSEs are further reminded of the ISO BPM Appeals Committee's Decision on Appeal of PRR 854:

“While this stakeholder process is underway, the ISO will continue to conduct its Local Capacity Technical Study as required by Section 40.3.1.1 of its tariff, but the ISO will use its discretion not to exercise its Capacity Procurement Mechanism authority to address annual resource deficiencies that are directly attributable to a discrepancy between a local regulatory authority’s resource adequacy counting rules for demand response resources and ISO’s Local Capacity Technical Study.”

Appendix A – List of physical resources by TAC area, local area, sub-area and market ID

<u>TAC Area</u>	<u>Mkt./Physical Res. ID</u>	<u>Physical Resource Name</u>	<u>NQC (MW)</u>	<u>Available (MW)</u>	<u>Local Area</u>	<u>LCR Need</u>
PG&E	GILROY_1_UNIT	Gilroy Cogen Aggregate	115.00	2.00	Bay Area	San Jose
PG&E	GILRPP_1_PL1X2	Gilroy EC Units 1&2 Aggregate	95.20	26.20	Bay Area	San Jose
PG&E	GILRPP_1_PL3X4	Gilroy EC Unit 3	46.20	1.20	Bay Area	San Jose
PG&E	GILROY_1_UNIT	Gilroy Cogen Aggregate	115.00	2.00	Bay Area	Overall
PG&E	GILRPP_1_PL1X2	Gilroy EC Units 1&2 Aggregate	95.20	26.20	Bay Area	Overall
PG&E	GILRPP_1_PL3X4	Gilroy EC Unit 3	46.20	1.20	Bay Area	Overall
PG&E	METEC_2_PL1X3	Metcalf Energy Center	593.16	1.16	Bay Area	Overall
PG&E	MOSSLD_2_PSP1	Moss Landing Power Block 1	510.00	27.00	Bay Area	Overall
PG&E	BANKPP_2_NSPIN	BANKPP_2_NSPIN	127.00	78.00	Bay Area	Overall
PG&E	BRDSL_2_HIWIND	High Winds Energy Center	34.02	10.71	Bay Area	Overall
PG&E	CUMBIA_1_SOLAR	Columbia Solar Energy II	5.13	2.00	Bay Area	Overall
PG&E	DELTA_2_PL1X4	Delta Energy Center	833.00	24.00	Bay Area	Overall
PG&E	GATWAY_2_PL1X3	Gateway Generation Station	505.51	11.48	Bay Area	Overall
PG&E	LAWRNC_7_SUNYVL	City of Sunnyvale Unit 1 and 2	0.02	0.02	Bay Area	Overall
PG&E	LMEC_1_PL1X3	Los Medanos Energy Center	574.53	6.53	Bay Area	Overall
PG&E	OAK C_1_EBMUD	MWWTP PGS 1 - ENGINES	1.72	1.72	Bay Area	Overall
PG&E	RICHMN_7_BAYENV	Bay Environmental	0.23	0.23	Bay Area	Overall
PG&E	SHELRF_1_UNITS	Shell Oil Refinery Aggregate	0.11	0.11	Bay Area	Overall
PG&E	TIDWTR_2_UNITS	Martinez Cogen	28.69	28.69	Bay Area	Overall
PG&E	JSWNR_2_SMUD	Solano Wind Farm	21.46	21.46	Bay Area	Overall
PG&E	JSWNR_2_SMUD2	Solano Wind Project Phase 3	26.84	26.84	Bay Area	Overall
PG&E	WDMAS_2_UNIT 1	BUENA VISTA ENERGY, LLC	7.98	7.98	Bay Area	Overall
PG&E	ZOND_6_UNIT	ZOND WINDSYSTEMS INC.	3.59	3.59	Bay Area	Overall
PG&E	GEYS11_7_UNIT11	GEYSERS UNIT 11	68.00	68.00	NCNB	NCNB
PG&E	GEYS12_7_UNIT12	GEYSERS UNIT 12	50.00	46.00	NCNB	NCNB
PG&E	GEYS13_7_UNIT13	GEYSERS UNIT 13	56.00	5.00	NCNB	NCNB
PG&E	GEYS20_7_UNIT20	GEYSERS UNIT 20	40.00	6.00	NCNB	NCNB
PG&E	NCPA_7_GP1UN1	NCPA Geo Plant 1 Unit 1	38.85	10.30	NCNB	NCNB
PG&E	NCPA_7_GP1UN2	NCPA Geo Plant 1 Unit 2	39.94	15.92	NCNB	NCNB
PG&E	NCPA_7_GP2UN4	NCPA Geo Plant 1 Unit 4	52.73	12.78	NCNB	NCNB
PG&E	POTTER_6_UNITS	Potter Valley	2.06	2.06	NCNB	NCNB
PG&E	SANTRG_7_UNITS	GEYSERS CALISTOGA	63.00	4.00	NCNB	NCNB
PG&E	SNMALF_6_UNITS	Sonoma County Landfill	3.15	0.51	NCNB	NCNB
PG&E	DAVIS_7_MNMETH	MM Yolo Power LLC	2.34	2.34	Sierra	Drum-Rio Oso
PG&E	DEADCK_1_UNIT	DEADCK_1_UNIT	0.02	0.02	Sierra	Drum-Rio Oso
PG&E	DEERCR_6_UNIT 1	DEER CREEK	2.88	2.88	Sierra	Drum-Rio Oso
PG&E	FORBST_7_UNIT 1	FORBESTOWN HYDRO	37.50	6.18	Sierra	Drum-Rio Oso
PG&E	KELYRG_6_UNIT	KELLY RIDGE HYDRO	11.00	1.81	Sierra	Drum-Rio Oso
PG&E	OROVIL_6_UNIT	Oroville Cogeneration, LP	7.50	2.50	Sierra	Drum-Rio Oso

PG&E	OXBOW_6_DRUM	OXBOW HYDRO	3.70	3.70	Sierra	Drum-Rio Oso
PG&E	SLYCRK_1_UNIT 1	SLY CREEK HYDRO	13.00	2.13	Sierra	Drum-Rio Oso
PG&E	WDLEAF_7_UNIT 1	WOODLEAF HYDRO	60.00	9.87	Sierra	Drum-Rio Oso
PG&E	YUBACT_1_SUNSWT	Yuba City Cogen	49.97	2.97	Sierra	Drum-Rio Oso
PG&E	ELDORO_7_UNIT 1	El Dorado Unit 1	1.94	1.94	Sierra	Gold Hill-Drum
PG&E	ELDORO_7_UNIT 2	El Dorado Unit 2	4.79	4.79	Sierra	Gold Hill-Drum
PG&E	PLACVL_1_CHILIB	Chili Bar Powerhouse	3.11	3.11	Sierra	Gold Hill-Drum
PG&E	FROGTN_1_UTICAM	Murphys Powerhouse	1.83	1.83	Stockton	Tesla-Bellota
PG&E	STNRES_1_UNIT	Covanta Stanislaus	19.34	1.08	Stockton	Tesla-Bellota
PG&E	MLYHOM_7_SSJID	Woodward Power Plant	0.74	0.74	Stockton	Tesla-Bellota
PG&E	CRNEVL_6_SJQN 2	SAN JOAQUIN 2	0.01	0.01	Fresno	Borden
PG&E	MCSWAN_6_UNITS	MC SWAIN HYDRO	9.6	9.6	Fresno	Wilson 115 kV
PG&E	MERCFL_6_UNIT	Merced Falls Powerhouse	3.36	3.36	Fresno	Wilson 115 kV
PG&E	DEXZEL_1_UNIT	Western Power and Steam	17.52	17.52	Kern	South Kern PP
PG&E	KERNFT_1_UNITS	Kern Front Limited	52.40	2.00	Kern	South Kern PP
PG&E	LIVOAK_1_UNIT 1	LIVE OAK LIMITED	43.00	0.06	Kern	South Kern PP

Appendix B – List of physical resources available to meet the system RA deficiency

Resource ID	Generator Name	September NQC (MW)	Available (MW)
AGRICO_7_UNIT	Fresno Cogen	48.58	1.37
ALAMO_6_UNIT	ALAMO POWER PLANT	8.06	8.06
ANTLPE_2_QF	ANTELOPE QFS	0.6	0.6
ARCOGN_2_UNITS	WATSON COGENERATION	305	305
ASTORA_2_SOLAR2	Astoria 2	10.5	0.03
BANGOR_6_HYDRO	Virginia Ranch Dam Powerplant	0.39	0.39
BANKPP_2_NSPIN	BANKPP_2_NSPIN	127	38
BLACK_7_UNIT 1	JAMES B. BLACK 1	83.6	83.6
BLACK_7_UNIT 2	JAMES B. BLACK 2	84.08	84.08
BLM_2_UNITS	BLM EAST Facility	47	10.97
BRDSLD_2_HIWIND	High Winds Energy Center	24.3	7.65
BUTTVL_7_UNIT 1	BUTT VALLEY HYDRO	39.5	39.5
CALGEN_1_UNITS	Coso Navy 1	80	29.8
CARBOU_7_PL2X3	CARIBOU PH 1 UNIT 2 & 3 AGGREGATE	20.8	20.8
CARBOU_7_PL4X5	CARIBOU PH 2 UNIT 4 & 5 AGGREGATE	101.2	51.2
CARBOU_7_UNIT 1	CARIBOU PH 1 UNIT 1	17.6	10.76
CDWR07_2_GEN	CDWR07_2_GEN	115.6	85.6
CHINO_7_MILIKN	MN Milliken Genco LLC	1.21	1.21
CLRKRD_6_LIMESD	Lime Saddle Hydro	0.2	0.2
COLGAT_7_UNIT 1	Colgate Powerhouse Unit 1	161	111
COLGAT_7_UNIT 2	Colgate Powerhouse Unit 2	161	111
COLUSA_2_PL1X3	Colusa Generating Station	604.96	429.55
COLVIL_7_PL1X2	Collierville Hydro Unit 1 & 2 Aggregate	246.86	29.62
COTTLE_2_FRNKNH	Frankenheimer Power Plant	1.38	1.38
CRESSY_1_PARKER	PARKER POWERHOUSE	0.81	0.81
CURTIS_1_FARFLD	Fairfield Powerhouse	0.22	0.22
DAVIS_7_MNMETH	MM Yolo Power LLC	2.42	2.42
DEERCR_6_UNIT 1	DEER CREEK	2.74	2.74
DELTA_2_PL1X4	DELTA ENERGY CENTER AGGREGATE	833	9
DEXZEL_1_UNIT	Western Power and Steam Cogeneration	17.75	17.75
DIABLO_7_UNIT 1	Diablo Canyon Unit 1	1140	5
DIABLO_7_UNIT 2	Diablo Canyon Unit 2	1140	27
DMDVLY_1_UNITS	DIAMOND VALLEY LAKE PUMP-GEN PLANT	1.04	1.04
DOSMGO_2_NSPIN	DOSMGO_2_NSPIN	16.26	16.26
DRACKR_2_D4SR4B	Dracker Solar Unit 4B	8.75	8.75
DTCHWD_2_BT3WND	Brookfield Tehachapi 3	0.68	0.68
DTCHWD_2_BT4WND	Brookfield Tehachapi 4	0.98	0.98
DVLCYN_1_UNITS	Devil Canyon Hydro Units 1-4 Aggregate	94.45	17.45
EDMONS_2_NSPIN	EDMONS_2_NSPIN	236	176
ELDORO_7_UNIT 1	El Dorado Unit 1	3.87	3.87
ELDORO_7_UNIT 2	El Dorado Unit 2	3.55	3.55
ELECTR_7_PL1X3	ELECTRA PH UNIT 1 & 2 AGGREGATE	54.9	54.9
ELKCRK_6_STONYG	STONEY GORGE HYDRO AGGREGATE	1.4	1.4
ELKHIL_2_PL1X3	ELK HILLS COMBINED CYCLE (AGGREGATE)	380	188.9
ETIWND_2_SOLAR1	Dedeaux Ontario	0.14	0.14

FMEADO_6_HELLHL	FMEADO_6_HELLHL	0.37	0.37
FORBST_7_UNIT 1	FORBESTOWN HYDRO	37.5	6.18
FROGTN_1_UTICAM	Murphys Powerhouse	1.84	1.84
GARNET_1_UNITS	Garnet Green Power Project Aggregate	2.48	1.13
GARNET_2_WPMWD6	WINTEC PALM	0.89	0.89
GATEWAY_2_GESBT1	Gateway Energy Stroage	171.25	8.25
GATWAY_2_PL1X3	GATEWAY GENERATING STATION	513.59	7.7
GEYS13_7_UNIT13	GEYSERS UNIT 13 (HEALDSBURG)	56	5
GEYS20_7_UNIT20	GEYSERS UNIT 20 (HEALDSBURG)	40	2
GILRPP_1_PL1X2	Gilroy Energy Center Units 1&2 Aggregate	95.2	2.65
GILRPP_1_PL3X4	GILROY ENERGY CENTER, UNIT #3	46.2	1.2
GLNARM_7_UNIT 2	GLEN ARM UNIT 2	18.8	0.8
GLNARM_7_UNIT 3	GLEN ARM UNIT 3	44.83	0.83
GLNARM_7_UNIT 4	GLEN ARM UNIT 4	42.42	1.42
GRIZLY_1_UNIT 1	GRIZZLY HYDRO	20	20
GRNLF2_1_UNIT	GREENLEAF II COGEN	49.2	49.2
HATCR1_7_UNIT	Hat Creek #1	2.51	2.51
HATCR2_7_UNIT	Hat Creek #2	4.01	4.01
HATLOS_6_LSCRK	Lost Creek 1 & 2 Hydro Conversion	0.98	0.98
HENRTA_6_HDEBT1	Henrietta D Energy Storage	10	10
HIDSRT_2_UNITS	High Desert Power Project Aggregate	830	280
HIGHDS_2_H5SSR1	High 5 Solar	14	3.62
HINSON_6_CARBGN	BP WILMINGTON CALCINER	26.51	26.51
HINSON_6_SERRGN	Southeast Resource Recovery	34	34
HNTGBH_7_UNIT 2	HUNTINGTON BEACH GEN STA. UNIT 2	226.84	0.23
HOLGAT_1_BORAX	U.S. Borax, Unit 1	3.37	3.37
HYTTM_2_UNITS	Hyatt-Thermalito Pump-Gen (Aggregate)	344.47	334.47
INDIGO_1_UNIT 1	INDIGO PEAKER UNIT 1	45	3
INDIGO_1_UNIT 2	INDIGO PEAKER UNIT 2	45	3
INDIGO_1_UNIT 3	INDIGO PEAKER UNIT 3	45	3
INTKEP_2_UNITS	CCSF Hetch_Hetchy Hydro Aggregate	239	75.41
INTTRB_6_UNIT	International Turbine Research	2.76	2.76
JOHANN_2_JOSBT1	Johanna Storage 1	10	10
JOHANN_2_JOSBT2	Johanna Storage 2	10	10
KELYRG_6_UNIT	KELLY RIDGE HYDRO	11	1.81
KERNFT_1_UNITS	KERN FRONT LIMITED	52.4	2
KINGCO_1_KINGBR	Kingsburg Cogen	34.5	34.5
KNGCTY_6_UNITA1	King City Energy Center, Unit 1	44.6	7.5
KRAMER_2_SEGS 8	KRAMER JUNCTION 8	11.2	11.2
LAPLMA_2_UNIT 1	La Paloma Generating Plant Unit #1	259.8	0.8
LAPLMA_2_UNIT 2	La Paloma Generating Plant Unit #2	260.2	20.2
LAPLMA_2_UNIT 3	La Paloma Generating Plant Unit #3	256.15	0.15
LAPLMA_2_UNIT 4	LA PALOMA GENERATING PLANT, UNIT #4	253.29	13.29
LARKSP_6_UNIT 1	LARKSPUR PEAKER UNIT 1	46.1	0.1
LARKSP_6_UNIT 2	LARKSPUR PEAKER UNIT 2	47.98	1.98
LAROA2_2_UNITA1	LR2	322	7
LASSEN_6_UNITS	Honey Lake Power	30	6
LAWRNC_7_SUNYVL	City of Sunnyvale Unit 1 and 2	0.02	0.02
LEBECS_2_UNITS	Pastoria Energy Facility	775	17
LMEC_1_PL1X3	Los Medanos Energy Center AGGREGATE	574.53	6.53

LODIEC_2_PL1X2	Lodi Energy Center	302.58	32.46
MANZNA_2_WIND	Manzana Wind	28.35	0.02
MCSWAN_6_UNITS	MC SWAIN HYDRO	9.6	9.6
MERCFL_6_UNIT	Merced Falls Powerhouse	3.36	3.36
METEC_2_PL1X3	Metcalf Energy Center	593.16	1.16
MIRLOM_2_CORONA	MWD Corona Hydroelectric Recovery Plant	2	2
MIRLOM_2_TEMESC	MWD Temescal Hydroelectric Recovery Plan	0.94	0.94
MOJAVE_1_SIPHON	MOJAVE SIPHON POWER PLANT	6.74	6.74
MOORPK_2_CALABS	Calabasas Gas-to-Energy Facility	4.34	0.34
MRGT_6_TGEBT1	Top Gun Energy Storage	30	30
MTWIND_1_UNIT 1	Mountain View Power Project I	6.66	6.66
MTWIND_1_UNIT 2	Mountain View Power Project II	3.33	3.33
NAROW1_2_UNIT	NARROWS PH 1 UNIT	12	12
NAROW2_2_UNIT	Narrows Powerhouse Unit 2	55	55
NAVYII_2_UNITS	Coso Power Developer (Navy II) Aggregate	55	12.53
NCPA_7_GP1UN1	NCPA GEO PLANT 1 UNIT 1	38.85	10.3
NCPA_7_GP1UN2	NCPA GEO PLANT 1 UNIT 2	39.94	12.88
NCPA_7_GP2UN4	NCPA GEO PLANT 2 UNIT 4	52.73	8.79
NHOGAN_6_UNITS	NEW HOGAN PH AGGREGATE	1.06	1.06
NZWIND_2_WDSTR5	Windstream 6111	0.95	0.95
NZWIND_6_WDSTR4	Windstream 6042	1.02	1.02
OAK C_1_EBMUD	MWWTP PGS 1 - ENGINES	1.63	1.63
OAK C_7_UNIT 1	OAKLAND STATION C GT UNIT 1	55	55
OAK C_7_UNIT 3	OAKLAND STATION C GT UNIT 3	55	55
OAKWD_6_ZEPHWD	Zephyr Park	0.53	0.53
OILFLD_7_QFUNTS	Nacimiento Hydroelectric Plant	1.23	1.23
OLINDA_7_BLKSDND	BlackSand Generating Facility	0.06	0.06
OMAR_2_UNIT 1	KERN RIVER COGENERATION CO. UNIT 1	73.67	1.67
OMAR_2_UNIT 2	KERN RIVER COGENERATION CO. UNIT 2	73.67	8.67
OMAR_2_UNIT 3	KERN RIVER COGENERATION CO. UNIT 3	73.67	3.67
OMAR_2_UNIT 4	KERN RIVER COGENERATION CO. UNIT 4	74.33	1.33
ONLLPP_6_UNITS	O'NEILL PUMP-GEN (AGGREGATE)	0.05	0.05
ORMOND_7_UNIT 1	ORMOND BEACH GEN STA. UNIT 1	741.27	0.27
OROVIL_6_UNIT	Oroville Cogeneration, LP	7.5	2.5
OSO_6_NSPIN	OSO_6_NSPIN	18	18
OXBOW_6_DRUM	OXBOW HYDRO	3.13	3.13
PEARBL_2_NSPIN	PEARBL_2_NSPIN	46	46
PGCC_1_PDRP02	PGCC_1_PDRP02	0.19	0.19
PGCC_1_PDRP24	VLTS_PDR_PGCC_01	4.27	4.27
PGEB_2_PDRP107	VLTS_PDR_PGEB_02	0.32	0.32
PGEB_2_PDRP30	PGEB_2_PDRP30	0.53	0.53
PGEB_2_PDRP34	PGEB_2_PDRP34	0.53	0.53
PGEB_2_PDRP35	PGEB_2_PDRP35	0.61	0.61
PGEB_2_PDRP37	PGEB_2_PDRP37	1.44	1.44
PGEB_2_PDRP45	PGEB_2_PDRP45	1.44	1.44
PGEB_2_PDRP46	PGEB_2_PDRP46	0.48	0.48
PGEB_2_PDRP47	PGEB_2_PDRP47	0.48	0.48
PGEB_2_PDRP49	PGEB_2_PDRP49	1.44	1.44
PGEB_2_PDRP93	VLTS_PDR_PGEB_1	2.5	2.5
PGF1_2_PDRP40	PGF1_2_PDRP40	0.44	0.44

PGF1_2_PDRP46	PGF1_2_PDRP46	0.43	0.43
PGF1_2_PDRP47	PGF1_2_PDRP47	0.53	0.53
PGF1_2_PDRP48	PGF1_2_PDRP48	0.53	0.53
PGF1_2_PDRP50	PGF1_2_PDRP50	0.69	0.69
PGF1_2_PDRP51	PGF1_2_PDRP51	0.69	0.69
PGF1_2_PDRP55	PGF1_2_PDRP55	0.43	0.43
PGF1_2_PDRP57	PGF1_2_PDRP57	0.43	0.43
PGF1_2_PDRP92	VLTS_PDR_PGF1_01	1.6	1.6
PGFG_1_PDRP15	PGFG_1_PDRP15	0.53	0.53
PGFG_1_PDRP17	PGFG_1_PDRP17	0.53	0.53
PGFG_1_PDRP37	PGFG_1_PDRP37	0.32	0.32
PGHB_6_PDRP17	PGHB_6_PDRP17	0.21	0.21
PGKN_2_PDRP18	PGKN_2_PDRP18	0.64	0.64
PGKN_2_PDRP19	PGKN_2_PDRP19	1.07	1.07
PGKN_2_PDRP20	PGKN_2_PDRP20	0.64	0.64
PGKN_2_PDRP32	VLTS_PDR_PGKN_1	1.49	1.49
PGNB_2_PDRP38	PGNB_2_PDRP38	0.21	0.21
PGNC_1_PDRP06	PGNC_1_PDRP06	0.2	0.2
PGNC_2_PDRP13	PGNC_2_PDRP13	0.21	0.21
PGNP_2_PDRP16	PGNP_2_PDRP16	0.8	0.8
PGNP_2_PDRP18	PGNP_2_PDRP18	0.8	0.8
PGNP_2_PDRP20	PGNP_2_PDRP20	1.01	1.01
PGNP_2_PDRP21	PGNP_2_PDRP21	1.01	1.01
PGNP_2_PDRP22	PGNP_2_PDRP22	0.66	0.66
PGNP_2_PDRP23	PGNP_2_PDRP23	0.66	0.66
PGNP_2_PDRP24	PGNP_2_PDRP24	0.65	0.65
PGNP_2_PDRP26	PGNP_2_PDRP26	0.59	0.59
PGNP_2_PDRP27	PGNP_2_PDRP27	0.59	0.59
PGNP_2_PDRP38	VLTS_PDR_PGNP-Calplant	4.8	4.8
PGNP_2_PDRP39	VLTS_PDR_PGNP_02	0.95	0.95
PGNP_2_PDRP52	VLTS_PDR_PGNP_03	0.32	0.32
PGP2_2_PDRP17	PGP2_2_PDRP17	1.48	1.48
PGP2_2_PDRP23	PGP2_2_PDRP23	1.12	1.12
PGP2_2_PDRP24	PGP2_2_PDRP24	0.73	0.73
PGP2_2_PDRP58	PGP2_2_PDRP58	0.21	0.21
PGSB_1_PDRP36	PGSB_1_PDRP36	1.1	1.1
PGSB_1_PDRP42	PGSB_1_PDRP42	0.96	0.96
PGSB_1_PDRP43	PGSB_1_PDRP43	0.96	0.96
PGSB_1_PDRP44	PGSB_1_PDRP44	1.1	1.1
PGSB_1_PDRP47	PGSB_1_PDRP47	1.1	1.1
PGSB_1_PDRP87	VLTS_PDR_PGSB_1	0.32	0.32
PGSF_2_PDRP18	PGSF_2_PDRP18	1.18	1.18
PGSF_2_PDRP20	PGSF_2_PDRP20	0.21	0.21
PGSF_2_PDRP49	VLTS_PDR_PGSF_1	0.91	0.91
PGSI_1_PDRP20	PGSI_1_PDRP20	1.33	1.33
PGSI_1_PDRP21	PGSI_1_PDRP21	1.21	1.21
PGSI_1_PDRP22	PGSI_1_PDRP22	1.29	1.29
PGSI_1_PDRP23	PGSI_1_PDRP23	1.17	1.17
PGSI_1_PDRP24	PGSI_1_PDRP24	1.27	1.27
PGSI_1_PDRP25	PGSI_1_PDRP25	1.24	1.24

PGSI_1_PDRP26	PGSI_1_PDRP26	1.24	1.24
PGSI_1_PDRP39	VLTS_PDR_PGSI_01	1.81	1.81
PGST_2_PDRP01	PGST_2_PDRP01	0.6	0.6
PGST_2_PDRP03	PGST_2_PDRP03	1.09	1.09
PGST_2_PDRP07	PGST_2_PDRP07	0.26	0.26
PGST_2_PDRP08	PGST_2_PDRP08	1.03	1.03
PGST_2_PDRP09	PGST_2_PDRP09	1.03	1.03
PGST_2_PDRP22	VLTS_PDR_PGST_1	0.32	0.32
PGZP_2_PDRP15	PGZP_2_PDRP15	1.07	1.07
PGZP_2_PDRP16	PGZP_2_PDRP16	0.53	0.53
PGZP_2_PDRP17	PGZP_2_PDRP17	1.07	1.07
PGZP_2_PDRP18	PGZP_2_PDRP18	0.53	0.53
PGZP_2_PDRP20	PGZP_2_PDRP20	0.43	0.43
PGZP_2_PDRP45	VLTS_PDR_PGZP_1	1.07	1.07
PINFLT_7_UNITS	PINE FLAT HYDRO AGGREGATE	18.15	0.15
PIOPIC_2_CTG1	Pio Pico Unit 1	111.3	5.3
PIOPIC_2_CTG2	Pio Pico Unit 2	112.7	6.7
PIOPIC_2_CTG3	Pio Pico Unit 3	112	6
PIT1_7_UNIT 1	PIT PH 1 UNIT 1	9.2	9.2
PIT1_7_UNIT 2	PIT PH 1 UNIT 2	9.2	9.2
PIT3_7_PL1X3	PIT PH 3 UNITS 1, 2 & 3 AGGREGATE	33	21.83
PIT4_7_PL1X2	PIT PH 4 UNITS 1 & 2 AGGREGATE	42.4	20.4
PIT5_7_PL1X2	PIT PH 5 UNITS 1 & 2 AGGREGATE	31	15
PIT5_7_PL3X4	PIT PH 5 UNITS 3 & 4 AGGREGATE	35.2	17.6
PIT6_7_UNIT 1	PIT PH 6 UNIT 1	30.87	30.87
PIT6_7_UNIT 2	PIT PH 6 UNIT 2	36.85	36.85
PIT7_7_UNIT 1	PIT PH 7 UNIT 1	54.2	54.2
PIT7_7_UNIT 2	PIT PH 7 UNIT 2	53.88	53.88
PLACVL_1_CHILIB	Chili Bar Powerhouse	2.79	2.79
PNCHEG_2_PL1X4	PANOCHÉ ENERGY CENTER (Aggregated)	401	151.82
PNOCHE_1_UNITA1	CalPeak Power Panoche Unit 1	52.01	0.01
POTTER_6_UNITS	Potter Valley	1.9	1.9
PWEST_1_UNIT	PACIFIC WEST 1 WIND GENERATION	0.32	0.32
REDOND_7_UNIT 6	REDONDO GEN STA. UNIT 6	175	3
RICHMN_7_BAYENV	BAY ENVIRONMENTAL (NOVE POWER)	0.03	0.03
RTEDDY_2_SOLAR2	Rosamond West Solar 2	7.56	7.56
SALIRV_2_UNIT	Salinas River Cogeneration	20.97	3.97
SALTSP_7_UNITS	SALT SPRINGS HYDRO AGGREGATE	6.08	6.08
SANBRN_2_ESABT1	EdSan 1A	50	50
SAUGUS_7_CHIQCN	Chiquita Canyon Landfill Fac	5.48	0.91
SCEC_1_PDRP100	SCEC_1_PDRP100	0.51	0.51
SCEC_1_PDRP101	SCEC_1_PDRP101	0.51	0.51
SCEC_1_PDRP102	SCEC_1_PDRP102	0.51	0.51
SCEC_1_PDRP103	SCEC_1_PDRP103	0.51	0.51
SCEC_1_PDRP104	SCEC_1_PDRP104	0.51	0.51
SCEC_1_PDRP11	SCEC_1_PDRP11	0.81	0.81
SCEC_1_PDRP12	SCEC_1_PDRP12	0.81	0.81
SCEC_1_PDRP13	SCEC_1_PDRP13	0.81	0.81
SCEC_1_PDRP14	SCEC_1_PDRP14	0.81	0.81
SCEC_1_PDRP175	VLTS_PDR_SCEC_01	8.57	8.57

SCEC_1_PDRP176	VLTS_PDR_SCEC_02	7.3	7.3
SCEC_1_PDRP185	VLTS_PDR_SCEC_03	3.68	3.68
SCEC_1_PDRP30	SCEC_1_PDRP30	0.39	0.39
SCEC_1_PDRP31	SCEC_1_PDRP31	0.39	0.39
SCEC_1_PDRP32	SCEC_1_PDRP32	0.39	0.39
SCEC_1_PDRP48	SCEC_1_PDRP48	0.58	0.58
SCEC_1_PDRP49	SCEC_1_PDRP49	0.58	0.58
SCEC_1_PDRP50	SCEC_1_PDRP50	0.58	0.58
SCEC_1_PDRP51	SCEC_1_PDRP51	0.58	0.58
SCEC_1_PDRP52	SCEC_1_PDRP52	0.58	0.58
SCEN_6_PDRP79	VLTS_PDR_SCEN_01	5.5	5.5
SCEW_2_PDRP168	VLTS_PDR_SCEW_01	5.47	5.47
SCEW_2_PDRP177	VLTS_PDR_SCEW_02	9.46	9.46
SCHD_1_PDRP53	VLTS_PDR_SCHD_01	8	8
SCNW_6_PDRP59	VLTS_PDR_SCNW_1	3.5	3.5
SGREGY_6_SANGER	Algonquin Power Sanger 2	48.08	1.98
SHELRF_1_UNITS	SHELL OIL REFINERY AGGREGATE	0.14	0.14
SLYCRK_1_UNIT 1	SLY CREEK HYDRO	13	2.13
SNCLRA_2_UNIT	Channel Islands Power	27.5	27.5
SNCLRA_6_OXGEN	OXGEN	47.7	47.7
SPICER_1_UNITS	SPICER HYDRO UNITS 1-3 AGGREGATE	6	4.47
SPRGVL_2_QF	SPRINGVILLE QFS	0.16	0.16
STIGCT_2_LODI	LODI STIG UNIT	49.5	18.07
STNRES_1_UNIT	Covanta Stanislaus	19	1.35
SUNRIS_2_PL1X3	Sunrise Power Project AGGREGATE II	586.02	0.02
SUNSET_2_UNITS	MIDWAY SUNSET COGENERATION PLANT	231	231
SUNST2_5_SS2SR1	Sun Streams Solar 2	21	21
SYCAMR_2_UNIT 1	Sycamore Cogeneration Unit 1	77.33	7.33
SYCAMR_2_UNIT 2	Sycamore Cogeneration Unit 2	73.67	3.67
SYCAMR_2_UNIT 3	Sycamore Cogeneration Unit 3	73	3
SYCAMR_2_UNIT 4	Sycamore Cogeneration Unit 4	73	73
TEHAPI_2_WIND1	Wind Wall Monolith 1	2.24	2.24
TEHAPI_2_WIND2	Wind Wall Monolith 2	3.02	3.02
TENGEN_2_PL1X2	Berry Cogen 42	34	34
TERMEX_2_PL1X3	TDM	596	29
TIDWTR_2_UNITS	MARTINEZ COGEN LIMITED PARTNERSHIP	34.24	34.24
TIGRCK_7_UNITS	TIGER CREEK HYDRO AGGREGATE	33.6	33.6
TRNQL8_2_VERSR1	Tranquillity 8 Verde	8.4	8.4
UNVRSY_1_UNIT 1	Berry Cogen 38 - Unit 1	33.04	33.04
USWND4_2_UNIT2	Altamont Landfill Gas to Energy	7.4	7.4
USWNDR_2_SMUD	SOLANO WIND FARM	15.33	15.33
USWNDR_2_SMUD2	Solano Wind Project Phase 3	19.17	19.17
VALLEY_5_REDMTN	MWD Red Mountain Hydroelectric Recovery	0.97	0.97
VERNON_6_GONZL1	H. Gonzales Unit #1	5.75	5.75
VLYHOM_7_SSID	Woodward Power Plant	0.1	0.1
VOLTA_7_PONHY1	Ponderosa Bailey Hydroelectric	0.55	0.55
WALNUT_6_HILLGEN	Puente Hills	25.51	6.8
WARNE_2_UNIT	WARNE HYDRO AGGREGATE	34.29	22.29
WDLEAF_7_UNIT 1	WOODLEAF HYDRO	60	9.87
WEBER_6_FORWRD	Forward	4.2	4.2

WESTPT_2_UNIT	West Point Hydro Plant	10.04	10.04
WRGHTP_7_AMENGY	SMALL QF AGGREGATION - LOS BANOS	0.77	0.77
WSENGY_1_UNIT 1	Wheelabrator Shasta	34.55	0.55
YUBACT_1_SUNSWT	YUBA CITY COGEN	49.97	2.97
ZOND_6_UNIT	ZOND WINDSYSTEMS INC.	2.57	2.57