



Evaluation Report of Load Serving Entities' Compliance with 2021 Resource Adequacy Requirements

November 12, 2020

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1. Summary of review

The ISO has reviewed and evaluated the aggregate 2021 annual Resource Adequacy (RA) Plans of load serving entities (LSEs) received as of November 3, 2020 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 and SDG&E TAC Areas. The ISO's evaluation shows aggregate compliance with the LCR criteria in the SCE, 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 2021 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 (90% of the monthly resource adequacy requirement) for all five summer months except September. Currently there is a system RA shortage in September of 1,348.23 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 2021 LCR report that was used to give LSEs their LCR allocations, namely the LCR report dated May 1, 2020 <http://www.caiso.com/Documents/Final2021LocalCapacityTechnicalReport.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 following is a summary of the deficiencies in the SDG&E TAC area.

1. The remaining local Resource Adequacy technical need in the SDG&E TAC Area totals 618.00 MW.
2. At this time, individual LSE local deficiencies in the SDG&E TAC Area total 737.29 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 MW to a maximum deficiency of 618.00 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):

San Diego/Imperial Valley Area

An additional 618.00 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:

- El Cajon sub-area: with remaining need of 36.40 MW
- SD/IV Overall with remaining need of 618.00 MW

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 296.44 MW.
2. At this time, individual LSE local deficiencies in the PG&E TAC Area total 910.46 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 296.44 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):

Humboldt Area:

An additional 12.81 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:

- Humboldt overall: with remaining need of 12.81 MW

North Coast/North Bay Area:

An additional 18.79 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 18.79 MW

Sierra Area:

An additional 169.90 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 49.99 MW
- South of Palermo sub-area: with remaining need of 119.91 MW

Stockton Area:

An additional 0.74 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:

- Lockeford sub-Area with remaining need of 0.02 MW
- Tesla-Bellota sub-Area with remaining need of 0.72 MW

Fresno Area:

An additional 90.31 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:

- Coalinga sub-area: with remaining need of 24.81 MW
- Reedley sub-area: with remaining need of 36.80 MW
- Wilson 115 kV sub-area: with remaining need of 28.70 MW

Kern Area:

An additional 3.89 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 3.89 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 14, 2020**, 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	FAIRHV_6_UNIT	Fairhaven Power CO.	3.21	3.21	Humboldt	Humboldt
PG&E	HUMBPP_1_UNITS3	Humboldt Bay Gen. Station 3	65.08	21.31	Humboldt	Humboldt
PG&E	HUMBPP_6_UNITS	Humboldt Bay Gen. Station 1	97.62	36.62	Humboldt	Humboldt
PG&E	KEKAWK_6_UNIT	Sts Hydropower Ltd. Kekawaka	2.17	2.17	Humboldt	Humboldt
PG&E	LOWGAP_1_SUPHR	Mill & Sulphur Creek Hydro	0.29	0.01	Humboldt	Humboldt
PG&E	GYSRVL_7_WSPRNG	Warm Springs Hydro	1.48	1.48	NCNB	NCNB
PG&E	INDVLY_1_UNITS	Indian Valley Hydro	1.57	1.57	NCNB	NCNB
PG&E	NCPA_7_GP1UN1	NCPA Geo Plant 1 Unit 1	31.00	4.36	NCNB	NCNB
PG&E	NCPA_7_GP1UN2	NCPA Geo Plant 1 Unit 2	28.00	3.94	NCNB	NCNB
PG&E	NCPA_7_GP2UN4	NCPA Geo Plant 1 Unit 4	52.73	7.44	NCNB	NCNB
PG&E	DEADCK_1_UNIT	DEADCK_1_UNIT	0.02	0.02	Sierra	Drum-Rio Oso
PG&E	YUBACT_1_SUNSWT	Yuba City Cogen	49.97	49.97	Sierra	Drum-Rio Oso
PG&E	BIOMAS_1_UNIT 1	Woodland Biomass	23.93	23.93	Sierra	South of Palermo
PG&E	DAVIS_7_MNMETH	MM Yolo Power LLC	1.75	1.75	Sierra	South of Palermo
PG&E	DEERCR_6_UNIT 1	Deer Creek	3.18	3.18	Sierra	South of Palermo
PG&E	ELDORO_7_UNIT 1	El Dorado Unit 1	3.32	3.32	Sierra	South of Palermo
PG&E	ELDORO_7_UNIT 2	El Dorado Unit 2	4.57	4.57	Sierra	South of Palermo
PG&E	FMEADO_6_HELLHL	FMEADO_6_HELLHL	0.45	0.45	Sierra	South of Palermo
PG&E	HAYPRS_6_QFUNTS	Haypress Hydro QF Units	0.09	0.09	Sierra	South of Palermo
PG&E	HIGGNS_7_QFUNTS	HIGGNS_7_QFUNTS	0.25	0.25	Sierra	South of Palermo
PG&E	LODIEC_2_PL1X2	Lodi Energy Center	302.58	60.68	Sierra	South of Palermo
PG&E	OXBOW_6_DRUM	Oxbow Hydro	3.62	3.62	Sierra	South of Palermo
PG&E	STIGCT_2_LODI	Lodi STIG Unit	49.50	18.07	Sierra	South of Palermo
PG&E	LODI25_2_UNIT 1	Lodi Gas Turbine	23.80	0.02	Stockton	Lockeford
PG&E	VLYHOM_7_SSJID	Woodward Power Plant	0.72	0.72	Stockton	Tesla-Bellota
PG&E	AVENAL_6_AVPARK	Avenal Park Solar Project	1.62	1.62	Fresno	Coalinga

PG&E	AVENAL_6_SANDDG	Sand Drag Solar Project	4.29	4.29	Fresno	Coalinga
PG&E	AVENAL_6_SUNCTY	Sun City Solar Project	5.40	5.40	Fresno	Coalinga
PG&E	HURON_6_SOLAR	Huron Solar Station	5.40	5.40	Fresno	Coalinga
PG&E	SCHNDR_1_FIVPTS	Five Points Solar Station	4.05	4.05	Fresno	Coalinga
PG&E	SCHNDR_1_WSTSDE	Westside Solar Station	4.05	4.05	Fresno	Coalinga
PG&E	KINGRV_7_UNIT 1	Kings River Hydro Unit 1	36.80	36.80	Fresno	Reedley
PG&E	CHWCHL_1_BIOMAS	Chow II Biomass to Energy	9.33	0.33	Fresno	Wilson 115 kV
PG&E	ELNIDP_6_BIOMAS	El Nido Biomass to Energy	10.05	1.05	Fresno	Wilson 115 kV
PG&E	KERKH2_7_UNIT 1	Kerkhoff Ph 2 Unit #1	84.00	9.77	Fresno	Wilson 115 kV
PG&E	MENBIO_6_RENEW1	CalRenew - 1(A)	1.35	1.35	Fresno	Wilson 115 kV
PG&E	MNDOTA_1_SOLAR1	North Star Solar 1	16.20	16.20	Fresno	Wilson 115 kV
PG&E	BEARMT_1_UNIT	Bear Mountain Limited	45.00	1.00	Kern	South Kern PP
PG&E	KERNFT_1_UNITS	Kern Front Limited	48.60	2.00	Kern	South Kern PP
PG&E	OLDRIV_6_BIOGAS	Bidart Old River 1	1.69	0.89	Kern	South Kern PP
SDG&E	ELCAJN_6_UNITA1	Cuyamaca Peak Energy Plant	45.42	45.42	San Diego/IV	El Cajon
SDG&E	ELCAJN_6_UNITA1	Cuyamaca Peak Energy Plant	45.42	45.42	San Diego/IV	Overall
SDG&E	ESCNDO_6_UNITB1	CalPeak Power Enterpr. Unit 1	48.04	15.00	San Diego/IV	Overall
SDG&E	GATEWY_2_GESBT1	Gateway Energy Stroage	50.00	22.00	San Diego/IV	Overall
SDG&E	LAROA2_2_UNITA1	LR2	322.00	237.00	San Diego/IV	Overall
SDG&E	MRGT_6_MEF2	Miramar Energy Facility II	44.00	44.00	San Diego/IV	Overall
SDG&E	MRGT_6_MMAREF	Miramar Energy Facility	45.00	45.00	San Diego/IV	Overall
SDG&E	OTMESA_2_PL1X3	Otay Mesa Energy Center	603.60	318.00	San Diego/IV	Overall
SDG&E	SDG1_1_PDRP110	SDG1_1_PDRP110	3.76	3.76	San Diego/IV	Overall
SDG&E	TERMEX_2_PL1X3	TDM	593.00	555.00	San Diego/IV	Overall
SDG&E	VSTAES_6_VESBT1	Vista Energy Storage	11.00	1.00	San Diego/IV	Overall

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

<u>Mkt./Resource ID</u>	<u>Resource Name</u>	<u>September NQC (MW)</u>	<u>Available (MW)</u>
<u>ACACIA 6 SOLAR</u>	<u>West Antelope Solar</u>	<u>2.8</u>	<u>2.8</u>
<u>AGRICO 7 UNIT</u>	<u>Fresno Cogen</u>	<u>50.6</u>	<u>2.6</u>
<u>ALAMIT 2 PL1X3</u>	<u>Alamitos Energy Center Unit 7</u>	<u>674.7</u>	<u>24.7</u>
<u>ALTWD 1 QF</u>	<u>Altwind</u>	<u>4.33</u>	<u>2.86</u>
<u>ANAHM 2 CANYN2</u>	<u>CANYON POWER PLANT UNIT 2</u>	<u>48</u>	<u>13</u>
<u>ANTLPE 2 QF</u>	<u>ANTELOPE QFS</u>	<u>0.6</u>	<u>0.6</u>
<u>ASTORA 2 SOLAR2</u>	<u>Astoria 2</u>	<u>10.5</u>	<u>1.41</u>
<u>AVENAL 6 AVPARK</u>	<u>Avenal Park Solar Project</u>	<u>0.84</u>	<u>0.84</u>
<u>AVENAL 6 SANDDG</u>	<u>Sand Drag Solar Project</u>	<u>2.22</u>	<u>0.02</u>
<u>BALCHS 7 UNIT 1</u>	<u>BALCH 1 PH UNIT 1</u>	<u>31</u>	<u>31</u>
<u>BALCHS 7 UNIT 3</u>	<u>BALCH 2 PH UNIT 3</u>	<u>54.18</u>	<u>54.18</u>
<u>BDGRCK 1 UNITS</u>	<u>BADGER CREEK LIMITED</u>	<u>42.3</u>	<u>3.7</u>
<u>BEARMT 1 UNIT</u>	<u>Bear Mountain Limited</u>	<u>45.8</u>	<u>1.8</u>
<u>BIGSKY 2 BSKSR6</u>	<u>Big Sky Solar 6</u>	<u>2.8</u>	<u>2.8</u>
<u>BIGSKY 2 BSKSR7</u>	<u>Big Sky Solar 7</u>	<u>2.8</u>	<u>2.8</u>
<u>BIGSKY 2 BSKSR8</u>	<u>Big Sky Solar 8</u>	<u>2.8</u>	<u>2.8</u>
<u>BIOMAS 1 UNIT 1</u>	<u>WOODLAND BIOMASS</u>	<u>22.88</u>	<u>22.88</u>
<u>BLM 2 UNITS</u>	<u>BLM EAST Facility</u>	<u>47</u>	<u>11</u>
<u>BORDER 6 UNITA1</u>	<u>CalPeak Power Border Unit 1</u>	<u>51.25</u>	<u>20</u>
<u>BRDSLD 2 HIWIND</u>	<u>High Winds Energy Center</u>	<u>24.3</u>	<u>7.65</u>
<u>CALGEN 1 UNITS</u>	<u>Coso Navy 1</u>	<u>80</u>	<u>28</u>
<u>CALPIN 1 AGNEW</u>	<u>Agnews Power Plant</u>	<u>28.56</u>	<u>28.56</u>
<u>CANTUA 1 SOLAR</u>	<u>Cantua Solar Station</u>	<u>2.8</u>	<u>2.8</u>
<u>CARBOU 7 PL4X5</u>	<u>CARIBOU PH 2 UNIT 4 & 5 AGGREGATE</u>	<u>102</u>	<u>41</u>
<u>CDWR07 2 GEN</u>	<u>CDWR07 2 GEN</u>	<u>115.6</u>	<u>55.6</u>

<u>CHINO 7 MILIKN</u>	<u>MN Milliken Genco LLC</u>	<u>1.21</u>	<u>1.21</u>
<u>CHWCHL 1 BIOMAS</u>	<u>Chow II Biomass to Energy</u>	<u>10.01</u>	<u>1.01</u>
<u>COLGAT 7 UNIT 1</u>	<u>Colgate Powerhouse Unit 1</u>	<u>156.74</u>	<u>5.74</u>
<u>COLGAT 7 UNIT 2</u>	<u>Colgate Powerhouse Unit 2</u>	<u>156.71</u>	<u>0.71</u>
<u>COLUSA 2 PL1X3</u>	<u>Colusa Generating Station</u>	<u>610.72</u>	<u>158.79</u>
<u>COLVIL 7 PL1X2</u>	<u>COLLIERVILLE HYDRO UNIT 1 & 2 AGGREGATE</u>	<u>246.86</u>	<u>29.62</u>
<u>CONTRL 1 CASAD1</u>	<u>Mammoth G1</u>	<u>5.81</u>	<u>2.01</u>
<u>CONTRL 1 CASAD3</u>	<u>Mammoth G3</u>	<u>8.9</u>	<u>2.6</u>
<u>CORCAN 1 SOLAR1</u>	<u>CID Solar</u>	<u>2.8</u>	<u>2.8</u>
<u>COTTLE 2 FRKNH</u>	<u>Frankenheimer Power Plant</u>	<u>2.06</u>	<u>2.06</u>
<u>CRESSY 1 PARKER</u>	<u>PARKER POWERHOUSE</u>	<u>0.95</u>	<u>0.95</u>
<u>CRNEVL 6 SJQN 2</u>	<u>SAN JOAQUIN 2</u>	<u>0.43</u>	<u>0.43</u>
<u>CURTIS 1 FARFLD</u>	<u>Fairfield Powerhouse</u>	<u>0.18</u>	<u>0.18</u>
<u>DAVIS 7 MNMETH</u>	<u>MM Yolo Power LLC</u>	<u>1.77</u>	<u>1.77</u>
<u>DEERCR 6 UNIT 1</u>	<u>DEER CREEK</u>	<u>2.95</u>	<u>2.95</u>
<u>DELTA 2 PL1X4</u>	<u>DELTA ENERGY CENTER AGGREGATE</u>	<u>813</u>	<u>2</u>
<u>DIABLO 7 UNIT 1</u>	<u>Diablo Canyon Unit 1</u>	<u>1140</u>	<u>450.13</u>
<u>DIABLO 7 UNIT 2</u>	<u>Diablo Canyon Unit 2</u>	<u>1140</u>	<u>3</u>
<u>DIXNLD 1 LNDFL</u>	<u>Zero Waste Energy</u>	<u>0.72</u>	<u>0.72</u>
<u>DOSMGO 2 NSPIN</u>	<u>DOSMGO 2 NSPIN</u>	<u>15.99</u>	<u>8.99</u>
<u>DTCHWD 2 BT3WND</u>	<u>Brookfield Tehachapi 3</u>	<u>0.68</u>	<u>0.68</u>
<u>DTCHWD 2 BT4WND</u>	<u>Brookfield Tehachapi 4</u>	<u>0.98</u>	<u>0.98</u>
<u>DVLCYN 1 UNITS</u>	<u>DEVIL CANYON HYDRO UNITS 1-4 AGGREGATE</u>	<u>186.01</u>	<u>0.01</u>
<u>EDMONS 2 NSPIN</u>	<u>EDMONS 2 NSPIN</u>	<u>236</u>	<u>56</u>
<u>ELCAJN 6 UNITA1</u>	<u>Cuyamaca Peak Energy Plant</u>	<u>45.42</u>	<u>45.42</u>
<u>ELDORO 7 UNIT 1</u>	<u>El Dorado Unit 1</u>	<u>3.99</u>	<u>3.99</u>
<u>ELDORO 7 UNIT 2</u>	<u>El Dorado Unit 2</u>	<u>5.53</u>	<u>5.53</u>
<u>ELKCRK 6 STONYG</u>	<u>STONEY GORGE HYDRO AGGREGATE</u>	<u>1.4</u>	<u>1.4</u>

<u>ELKHIL 2 PL1X3</u>	<u>ELK HILLS COMBINED CYCLE (AGGREGATE)</u>	<u>380</u>	<u>25</u>
<u>ELNIDP 6 BIOMAS</u>	<u>El Nido Biomass to Energy</u>	<u>9.44</u>	<u>0.44</u>
<u>ESCND0 6 UNITB1</u>	<u>CalPeak Power Enterprise Unit 1</u>	<u>48.04</u>	<u>15</u>
<u>ETIWND 2 SOLAR1</u>	<u>Dedeaux Ontario</u>	<u>0.14</u>	<u>0.14</u>
<u>FAIRHV 6 UNIT</u>	<u>FAIRHAVEN POWER CO.</u>	<u>7.85</u>	<u>7.85</u>
<u>FMEADO 6 HELLHL</u>	<u>FMEADO 6 HELLHL</u>	<u>0.37</u>	<u>0.37</u>
<u>GARNET 2 DIFWD1</u>	<u>Difwind</u>	<u>1.18</u>	<u>1.18</u>
<u>GARNET 2 WPMWD6</u>	<u>WINTEC PALM</u>	<u>0.89</u>	<u>0.89</u>
<u>GATEWY 2 GESBT1</u>	<u>Gateway Energy Stroage</u>	<u>50</u>	<u>22</u>
<u>GATWAY 2 PL1X3</u>	<u>GATEWAY GENERATING STATION</u>	<u>533.14</u>	<u>39.91</u>
<u>GIFFEN 6 SOLAR</u>	<u>Giffen Solar Station</u>	<u>1.4</u>	<u>1.4</u>
<u>GLDFGR 6 SOLAR2</u>	<u>Portal Ridge C</u>	<u>1.6</u>	<u>1.6</u>
<u>GLNARM 7 UNIT 1</u>	<u>GLEN ARM UNIT 1</u>	<u>22.07</u>	<u>22.07</u>
<u>GLNARM 7 UNIT 2</u>	<u>GLEN ARM UNIT 2</u>	<u>22.3</u>	<u>2.3</u>
<u>GLNARM 7 UNIT 3</u>	<u>GLEN ARM UNIT 3</u>	<u>44.83</u>	<u>0.83</u>
<u>GLNARM 7 UNIT 4</u>	<u>GLEN ARM UNIT 4</u>	<u>42.42</u>	<u>0.42</u>
<u>GRIZLY 1 UNIT 1</u>	<u>GRIZZLY HYDRO</u>	<u>20</u>	<u>20</u>
<u>GRNLF2 1 UNIT</u>	<u>GREENLEAF II COGEN</u>	<u>49.2</u>	<u>49.2</u>
<u>GUERNS 6 SOLAR</u>	<u>Guernsey Solar Station</u>	<u>2.8</u>	<u>2.8</u>
<u>GYSRVL 7 WSPRNG</u>	<u>Warm Springs Hydro</u>	<u>1.43</u>	<u>1.43</u>
<u>HAASPH 7 PL1X2</u>	<u>HAAS PH UNIT 1 & 2 AGGREGATE</u>	<u>129.6</u>	<u>28.68</u>
<u>HATCR1 7 UNIT</u>	<u>Hat Creek #1</u>	<u>2.25</u>	<u>2.25</u>
<u>HATCR2 7 UNIT</u>	<u>Hat Creek #2</u>	<u>4.1</u>	<u>0.01</u>
<u>HELMPG 7 UNIT 1</u>	<u>HELMS PUMP-GEN UNIT 1</u>	<u>407</u>	<u>83.69</u>
<u>HENRTA 6 SOLAR1</u>	<u>Lemoore 1</u>	<u>0.21</u>	<u>0.21</u>
<u>HENRTS 1 SOLAR</u>	<u>Henrietta Solar Project</u>	<u>14</u>	<u>14</u>
<u>HIDSRT 2 UNITS</u>	<u>HIGH DESERT POWER PROJECT AGGREGATE</u>	<u>786</u>	<u>250</u>
<u>HIGGNS 7 QFUNTS</u>	<u>HIGGNS 7 QFUNTS</u>	<u>0.23</u>	<u>0.23</u>

<u>HINSON 6 LBECH1</u>	<u>Long Beach Unit 1</u>	<u>63</u>	<u>5</u>
<u>HINSON 6 LBECH2</u>	<u>Long Beach Unit 2</u>	<u>63</u>	<u>7</u>
<u>HINSON 6 LBECH3</u>	<u>Long Beach Unit 3</u>	<u>63</u>	<u>12</u>
<u>HINSON 6 LBECH4</u>	<u>Long Beach Unit 4</u>	<u>63</u>	<u>12</u>
<u>HINSON 6 SERRGN</u>	<u>Southeast Resource Recovery</u>	<u>34</u>	<u>17</u>
<u>HNTGBH 2 PL1X3</u>	<u>Huntington Beach Energy</u>	<u>673.8</u>	<u>24.8</u>
<u>HUMBPP 1 UNITS3</u>	<u>Humboldt Bay Generating Station 3</u>	<u>65.08</u>	<u>11.49</u>
<u>HUMBPP 6 UNITS</u>	<u>Humboldt Bay Generating Station 1</u>	<u>97.62</u>	<u>36.62</u>
<u>HURON 6 SOLAR</u>	<u>Huron Solar Station</u>	<u>2.8</u>	<u>2.8</u>
<u>HYTTHM 2 UNITS</u>	<u>HYATT-THERMALITO PUMP-GEN (AGGREGATE)</u>	<u>407.03</u>	<u>102.03</u>
<u>INDIGO 1 UNIT 1</u>	<u>INDIGO PEAKER UNIT 1</u>	<u>42</u>	<u>42</u>
<u>INDVLY 1 UNITS</u>	<u>Indian Valley Hydro</u>	<u>1.58</u>	<u>1.58</u>
<u>INTKEP 2 UNITS</u>	<u>CCSF Hetch Hetchy Hydro Aggregate</u>	<u>239</u>	<u>44.73</u>
<u>JAWBNE 2 SRWND</u>	<u>Sky River</u>	<u>11.55</u>	<u>11.55</u>
<u>KERKH2 7 UNIT 1</u>	<u>KERKHOFF PH 2 UNIT #1</u>	<u>75</u>	<u>31.44</u>
<u>KINGCO 1 KINGBR</u>	<u>Kingsburg Cogen</u>	<u>34.5</u>	<u>34.5</u>
<u>KINGRV 7 UNIT 1</u>	<u>KINGS RIVER HYDRO UNIT 1</u>	<u>32</u>	<u>32</u>
<u>KRAMER 2 SEGS89</u>	<u>LUZ SOLAR PARTNERS 8-9 AGGREGATE</u>	<u>11.2</u>	<u>11.2</u>
<u>LAPLMA 2 UNIT 1</u>	<u>La Paloma Generating Plant Unit #1</u>	<u>259.8</u>	<u>19.8</u>
<u>LAPLMA 2 UNIT 2</u>	<u>La Paloma Generating Plant Unit #2</u>	<u>260.2</u>	<u>20.2</u>
<u>LAPLMA 2 UNIT 3</u>	<u>La Paloma Generating Plant Unit #3</u>	<u>256.15</u>	<u>21.15</u>
<u>LAPLMA 2 UNIT 4</u>	<u>LA PALOMA GENERATING PLANT, UNIT #4</u>	<u>253.29</u>	<u>13.29</u>
<u>LAROA2 2 UNITA1</u>	<u>LR2</u>	<u>322</u>	<u>202</u>
<u>LASSEN 6 UNITS</u>	<u>Honey Lake Power</u>	<u>30</u>	<u>6</u>
<u>LAWRNC 7 SUNYVL</u>	<u>City of Sunnyvale Unit 1 and 2</u>	<u>0.09</u>	<u>0.09</u>
<u>LEPRFD 1 KANSAS</u>	<u>Kansas</u>	<u>2.8</u>	<u>2.8</u>
<u>LMEC 1 PL1X3</u>	<u>Los Medanos Energy Center AGGREGATE</u>	<u>574.53</u>	<u>5.53</u>
<u>LNCSTR 6 SOLAR2</u>	<u>SEPV Sierra NGR</u>	<u>0.17</u>	<u>0.17</u>

<u>LODI25 2 UNIT 1</u>	<u>LODI GAS TURBINE</u>	<u>23.8</u>	<u>0.02</u>
<u>LODIEC 2 PL1X2</u>	<u>Lodi Energy Center</u>	<u>302.58</u>	<u>52.98</u>
<u>MANZNA 2 WIND</u>	<u>Manzana Wind</u>	<u>28.35</u>	<u>0.04</u>
<u>MCCALL 1 QF</u>	<u>SMALL QF AGGREGATION - FRESNO</u>	<u>0.75</u>	<u>0.75</u>
<u>MENBIO 6 RENEW1</u>	<u>CalRENEW - 1(A)</u>	<u>0.7</u>	<u>0.7</u>
<u>METEC 2 PL1X3</u>	<u>Metcalf Energy Center</u>	<u>580</u>	<u>18</u>
<u>MIRLOM 2 CREST</u>	<u>Temescal Canyon RV</u>	<u>0.21</u>	<u>0.21</u>
<u>MKTRCK 1 UNIT 1</u>	<u>MCKITTRICK LIMITED</u>	<u>44.8</u>	<u>2.8</u>
<u>MNDOTA 1 SOLAR1</u>	<u>North Star Solar 1</u>	<u>8.4</u>	<u>8.4</u>
<u>MOJAVE 1 SIPHON</u>	<u>MOJAVE SIPHON POWER PLANT</u>	<u>14.36</u>	<u>1.36</u>
<u>MOORPK 2 CALABS</u>	<u>Calabasas Gas-to-Energy Facility</u>	<u>4.85</u>	<u>0.85</u>
<u>MRGT 6 MEF2</u>	<u>Miramar Energy Facility II</u>	<u>44</u>	<u>44</u>
<u>MRGT 6 MMAREF</u>	<u>Miramar Energy Facility</u>	<u>45</u>	<u>45</u>
<u>NAROW1 2 UNIT</u>	<u>NARROWS PH 1 UNIT</u>	<u>12</u>	<u>10</u>
<u>NAROW2 2 UNIT</u>	<u>Narrows Powerhouse Unit 2</u>	<u>0.09</u>	<u>0.09</u>
<u>NAVYII 2 UNITS</u>	<u>COSO POWER DEVELOPER (NAVY II) AGGREGATE</u>	<u>55</u>	<u>8</u>
<u>NCPA 7 GP1UN1</u>	<u>NCPA GEO PLANT 1 UNIT 1</u>	<u>31</u>	<u>4.36</u>
<u>NCPA 7 GP1UN2</u>	<u>NCPA GEO PLANT 1 UNIT 2</u>	<u>28</u>	<u>3.94</u>
<u>NCPA 7 GP2UN4</u>	<u>NCPA GEO PLANT 2 UNIT 4</u>	<u>52.73</u>	<u>7.44</u>
<u>NEENCH 6 SOLAR</u>	<u>Alpine Solar</u>	<u>9.24</u>	<u>9.24</u>
<u>NHOGAN 6 UNITS</u>	<u>NEW HOGAN PH AGGREGATE</u>	<u>1.23</u>	<u>1.23</u>
<u>NZWIND 2 WDSTR5</u>	<u>Windstream 6111</u>	<u>0.95</u>	<u>0.95</u>
<u>NZWIND 6 WDSTR4</u>	<u>Windstream 6042</u>	<u>1.02</u>	<u>1.02</u>
<u>OAK C 1 EBMUD</u>	<u>MWWTP PGS 1 - ENGINES</u>	<u>1.41</u>	<u>1.41</u>
<u>OAK C 7 UNIT 1</u>	<u>OAKLAND STATION C GT UNIT 1</u>	<u>55</u>	<u>55</u>
<u>OAK C 7 UNIT 2</u>	<u>OAKLAND STATION C GT UNIT 2</u>	<u>55</u>	<u>55</u>
<u>OAK C 7 UNIT 3</u>	<u>OAKLAND STATION C GT UNIT 3</u>	<u>55</u>	<u>55</u>
<u>OILFLD 7 QFUNTS</u>	<u>Nacimiento Hydroelectric Plant</u>	<u>1.96</u>	<u>1.96</u>

<u>OLDRIV 6 BIOGAS</u>	<u>Bidart Old River 1</u>	<u>1.69</u>	<u>0.89</u>
<u>OLINDA 7 BLKSND</u>	<u>BlackSand Generating Facility</u>	<u>0.06</u>	<u>0.06</u>
<u>OMAR 2 UNIT 1</u>	<u>KERN RIVER COGENERATION CO. UNIT 1</u>	<u>72.32</u>	<u>2.32</u>
<u>OMAR 2 UNIT 2</u>	<u>KERN RIVER COGENERATION CO. UNIT 2</u>	<u>72.12</u>	<u>2.12</u>
<u>OMAR 2 UNIT 3</u>	<u>KERN RIVER COGENERATION CO. UNIT 3</u>	<u>75.62</u>	<u>5.62</u>
<u>OMAR 2 UNIT 4</u>	<u>KERN RIVER COGENERATION CO. UNIT 4</u>	<u>81.44</u>	<u>11.44</u>
<u>ONLLPP 6 UNITS</u>	<u>O'NEILL PUMP-GEN (AGGREGATE)</u>	<u>6.13</u>	<u>6.13</u>
<u>ORLND 6 HIGHLI</u>	<u>High Line Canal Hydro</u>	<u>0.02</u>	<u>0.02</u>
<u>ORMOND 7 UNIT 1</u>	<u>ORMOND BEACH GEN STA. UNIT 1</u>	<u>741.27</u>	<u>0.27</u>
<u>ORTGA 6 ME1SL1</u>	<u>Merced 1</u>	<u>0.42</u>	<u>0.42</u>
<u>OSO 6 NSPIN</u>	<u>OSO 6 NSPIN</u>	<u>18</u>	<u>10</u>
<u>OTMESA 2 PL1X3</u>	<u>OTAY MESA ENERGY CENTER</u>	<u>603.6</u>	<u>318</u>
<u>OXBOW 6 DRUM</u>	<u>OXBOW HYDRO</u>	<u>3.64</u>	<u>3.64</u>
<u>PANSEA 1 PANARO</u>	<u>Mesa Wind Project</u>	<u>4.5</u>	<u>4.5</u>
<u>PEARBL 2 NSPIN</u>	<u>PEARBL 2 NSPIN</u>	<u>46</u>	<u>25</u>
<u>PIT1 7 UNIT 1</u>	<u>PIT PH 1 UNIT 1</u>	<u>9.2</u>	<u>0.01</u>
<u>PIT1 7 UNIT 2</u>	<u>PIT PH 1 UNIT 2</u>	<u>9.2</u>	<u>0.01</u>
<u>PIT3 7 PL1X3</u>	<u>PIT PH 3 UNITS 1, 2 & 3 AGGREGATE</u>	<u>34.6</u>	<u>0.01</u>
<u>PIT6 7 UNIT 2</u>	<u>PIT PH 6 UNIT 2</u>	<u>37</u>	<u>0.01</u>
<u>PNOCHE 1 PL1X2</u>	<u>Panoche Peaker</u>	<u>49.97</u>	<u>5.97</u>
<u>PNOCHE 1 UNITA1</u>	<u>CalPeak Power Panoche Unit 1</u>	<u>52.01</u>	<u>0.01</u>
<u>PWEST 1 UNIT</u>	<u>PACIFIC WEST 1 WIND GENERATION</u>	<u>0.32</u>	<u>0.32</u>
<u>REDOND 7 UNIT 5</u>	<u>REDONDO GEN STA. UNIT 5</u>	<u>178.87</u>	<u>10.9</u>
<u>REDOND 7 UNIT 6</u>	<u>REDONDO GEN STA. UNIT 6</u>	<u>175</u>	<u>4.22</u>
<u>REDOND 7 UNIT 8</u>	<u>REDONDO GEN STA. UNIT 8</u>	<u>480</u>	<u>49.23</u>
<u>RTEDDY 2 SOLAR2</u>	<u>Rosamond West Solar 2</u>	<u>7.56</u>	<u>1.68</u>
<u>SALIRV 2 UNIT</u>	<u>Salinas River Cogeneration</u>	<u>18.38</u>	<u>1.38</u>
<u>SANITR 6 UNITS</u>	<u>LACSD CARSON WATER POLLUTION AGGREGATE</u>	<u>0.61</u>	<u>0.61</u>

<u>SAUGUS 7 CHIQC</u>	<u>Chiquita Canyon Landfill Fac</u>	<u>4.97</u>	<u>0.83</u>
<u>SAUGUS 7 LOPEZ</u>	<u>MM Lopez Energy</u>	<u>5.47</u>	<u>5.47</u>
<u>SCHNDR 1 FIVPTS</u>	<u>Five Points Solar Station</u>	<u>2.1</u>	<u>2.1</u>
<u>SCHNDR 1 WSTSDE</u>	<u>Westside Solar Station</u>	<u>2.1</u>	<u>2.1</u>
<u>SDG1 1 PDRP110</u>	<u>San Diego-IV</u>	<u>3.76</u>	<u>3.76</u>
<u>SGREGY 6 SANGER</u>	<u>Algonquin Power Sanger 2</u>	<u>48.08</u>	<u>3.08</u>
<u>SHELRF 1 UNITS</u>	<u>SHELL OIL REFINERY AGGREGATE</u>	<u>27.9</u>	<u>27.9</u>
<u>SNCLRA 2 UNIT</u>	<u>Channel Islands Power</u>	<u>27.5</u>	<u>27.5</u>
<u>SPICER 1 UNITS</u>	<u>SPICER HYDRO UNITS 1-3 AGGREGATE</u>	<u>6</u>	<u>3.78</u>
<u>SPRGVL 2 QF</u>	<u>SPRINGVILLE QFS</u>	<u>0.18</u>	<u>0.18</u>
<u>STAUFF 1 UNIT</u>	<u>RHODIA INC. (RHONE-POULENC)</u>	<u>0.03</u>	<u>0.03</u>
<u>STIGCT 2 LODI</u>	<u>LODI STIG UNIT</u>	<u>49.5</u>	<u>18.07</u>
<u>STROUD 6 SOLAR</u>	<u>Stroud Solar Station</u>	<u>2.8</u>	<u>2.8</u>
<u>SUMWHT 6 SWSSR1</u>	<u>Summer Wheat Solar Farm</u>	<u>2.59</u>	<u>2.59</u>
<u>SUNRIS 2 PL1X3</u>	<u>Sunrise Power Project AGGREGATE II</u>	<u>586.02</u>	<u>55.02</u>
<u>SUNSET 2 UNITS</u>	<u>MIDWAY SUNSET COGENERATION PLANT</u>	<u>167.3</u>	<u>167.3</u>
<u>SUNSHN 2 LNDFL</u>	<u>Sunshine Gas Producers</u>	<u>16.84</u>	<u>16.84</u>
<u>SYCAMR 2 UNIT 1</u>	<u>Sycamore Cogeneration Unit 1</u>	<u>78.53</u>	<u>8.53</u>
<u>SYCAMR 2 UNIT 2</u>	<u>Sycamore Cogeneration Unit 2</u>	<u>78</u>	<u>13</u>
<u>SYCAMR 2 UNIT 3</u>	<u>Sycamore Cogeneration Unit 3</u>	<u>78</u>	<u>78</u>
<u>SYCAMR 2 UNIT 4</u>	<u>Sycamore Cogeneration Unit 4</u>	<u>78</u>	<u>78</u>
<u>TENGEN 2 PL1X2</u>	<u>Berry Cogen 42</u>	<u>34.79</u>	<u>34.79</u>
<u>TIGRCK 7 UNITS</u>	<u>TIGER CREEK HYDRO AGGREGATE</u>	<u>32.8</u>	<u>0.01</u>
<u>TRNQL8 2 AMASR1</u>	<u>Tranquillity 8 Amarillo</u>	<u>2.8</u>	<u>2.8</u>
<u>TRNQL8 2 VERSR1</u>	<u>Tranquillity 8 Verde</u>	<u>8.4</u>	<u>8.4</u>
<u>USWND4 2 UNIT2</u>	<u>Altamont Landfill Gas to Energy</u>	<u>7.4</u>	<u>7.4</u>
<u>USWNR 2 SMUD</u>	<u>SOLANO WIND FARM</u>	<u>15.33</u>	<u>15.33</u>
<u>USWNR 2 SMUD2</u>	<u>Solano Wind Project Phase 3</u>	<u>19.17</u>	<u>19.17</u>

<u>VALLEY 5 SOLAR2</u>	<u>AP North Lake Solar</u>	<u>2.8</u>	<u>2.8</u>
<u>VESTAL 6 QF</u>	<u>VESTAL QFS</u>	<u>5.17</u>	<u>2.44</u>
<u>VINCNT 2 WESTWD</u>	<u>Oasis Power Plant</u>	<u>8.85</u>	<u>8.85</u>
<u>VLYHOM 7 SSJID</u>	<u>Woodward Power Plant</u>	<u>0.13</u>	<u>0.13</u>
<u>VOLTA 2 UNIT 2</u>	<u>Volta Hydro Unit 2</u>	<u>0.57</u>	<u>0.01</u>
<u>VOLTA 7 PONHY1</u>	<u>VOLTA 7 PONHY1</u>	<u>0.91</u>	<u>0.91</u>
<u>VOLTA 7_QFUNTS</u>	<u>VOLTA 7_QFUNTS</u>	<u>0.07</u>	<u>0.07</u>
<u>VSTAES 6_VESBT1</u>	<u>Vista Energy Storage</u>	<u>11</u>	<u>1</u>
<u>WALNUT 6 HILLGEN</u>	<u>Puente Hills</u>	<u>27.6</u>	<u>7.01</u>
<u>WARNE 2 UNIT</u>	<u>WARNE HYDRO AGGREGATE</u>	<u>42.5</u>	<u>2.5</u>
<u>WAUKNA 1 SOLAR</u>	<u>Corcoran Solar</u>	<u>2.8</u>	<u>2.8</u>
<u>WRGHTP 7_AMENGY</u>	<u>SMALL QF AGGREGATION - LOS BANOS</u>	<u>0.75</u>	<u>0.75</u>
<u>WSENGY 1 UNIT 1</u>	<u>Wheelabrator Shasta</u>	<u>38.31</u>	<u>4.31</u>
<u>YUBACT 1 SUNSWT</u>	<u>YUBA CITY COGEN</u>	<u>49.97</u>	<u>2.97</u>
<u>ZOND 6 UNIT</u>	<u>ZOND WINDSYSTEMS INC.</u>	<u>2.57</u>	<u>2.57</u>