

APPENDIX A: System Data

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1 Existing Generation

Table A1-1: Existing generation plants in PG&E planning area

| Planning Area | Generating Plant | Maximum Capacity |
|---|--------------------------------------|------------------|
| PG&E - Humboldt | Humboldt Bay | 172.2 |
| | Kekawaka | 4.9 |
| | LP Samoa | 25 |
| | Fairhaven | 17.3 |
| | Blue Lake | 12 |
| | Humboldt Area Total | 231 |
| PG&E - North Coast and North Bay | Santa Fe | 160 |
| | Bear Canyon | 20 |
| | Westford Flat | 30 |
| | Western Geo | 38 |
| | Geysers 5 | 53 |
| | Geysers 6 | 53 |
| | Geysers 7 | 53 |
| | Geysers 8 | 53 |
| | Geysers 11 | 85 |
| | Geysers 12 | 106 |
| | Geysers 13 | 133 |
| | Geysers 14 | 109 |
| | Geysers 16 | 118 |
| | Geysers 17 | 118 |
| | Geysers 18 | 118 |
| | Geysers 20 | 118 |
| | SMUD Geo | 72 |
| | Potter Valley | 10.5 |
| | Geo Energy | 20 |
| | Indian Valley | 3 |
| | Sonoma Landfill | 6 |
| | Exxon | 54 |
| | Monticello | 11.5 |
| North Coast and North Bay Area Total | 1564 | |
| PG&E - North Valley | Pit River | 793 |
| | Battle Creek | 17 |
| | Cow Creek | 5 |
| | North Feather River | 792 |
| | South Feather River | 154 |
| | West Feather River | 26 |
| | Black Butte | 11 |
| | Colusa | 717 |
| | Hatchet Ridge Wind | 103 |
| | QFs | 355 |
| | North Valley Area Total | 2,973 |
| | PG&E - Central Valley | Wadham |
| Woodland Biomass | | 25 |
| UC Davis Co-Gen | | 4 |
| Cal-Peak Vaca Dixon | | 49 |

| Planning Area | Generating Plant | Maximum Capacity |
|---------------|---------------------------------------|------------------|
| | Wolfskill Energy Center | 60 |
| | Lambie, Creed and Goosehaven | 143 |
| | EnXco | 60 |
| | Solano | 228 |
| | High Winds | 200 |
| | Shiloh | 500 |
| | Bowman Power House | 4 |
| | Camp Far West (SMUD) | 7 |
| | Chicago Park Power House | 40 |
| | Chili Bar Power House | 7 |
| | Colgate Power House | 340 |
| | Deer Creek Power House | 6 |
| | Drum Power House | 102 |
| | Dutch Flat Power House | 48 |
| | El Dorado Power House | 20 |
| | Feather River Energy Center | 50 |
| | French Meadow Power House | 17 |
| | Green Leaf No. 1 | 73 |
| | Green Leaf No. 2 | 50 |
| | Halsey Power House | 11 |
| | Haypress Power House | 15 |
| | Hellhole Power House | 1 |
| | Middle Fork Power House | 130 |
| | Narrows Power House | 66 |
| | Newcastle Power House | 14 |
| | Oxbow Power House | 6 |
| | Ralston Power House | 83 |
| | Rollins Power House | 12 |
| | Spaulding Power House | 17 |
| | SPI-Lincoln | 18 |
| | Ultra Rock (Rio Bravo-Rocklin) | 25 |
| | Wise Power House | 20 |
| | Yuba City Co-Generation | 49 |
| | Yuba City Energy Center | 61 |
| | Altamont Co-Generation | 13 |
| | Camanche Power House | 11 |
| | Co-generation National POSDEF | 50 |
| | Electra Power House | 97 |
| | Flowind Wind Farms | 76 |
| | GWF Tracy | 347 |
| | Ione Energy | 21 |
| | Lodi CT | 25 |
| | Lodi Stigg | 48 |
| | Pardee Power House | 29 |
| | Salt Springs Power House | 42 |
| | Simpson Paper Co-Generation | 50 |
| | Stockton Co-Generation (Air Products) | 50 |
| | Stockton Waste Water Facility | 2 |
| | Thermal Energy | 21 |
| | Tiger Creek Power House | 55 |

| Planning Area | Generating Plant | Maximum Capacity |
|--------------------------------------|--|--------------------|
| | US Wind Power Farms | 158 |
| | West Point Power House | 14 |
| | Lodi Energy Center | 307 |
| | Beardsley Power House | 11 |
| | Donnells Power House | 68 |
| | Fiberboard (Sierra Pacific) | 6 |
| | Pacific Ultra Power Chinese Station | 22 |
| | Sand Bar Power House | 15 |
| | Spring Gap Power House | 7 |
| | Stanislaus Power House | 83 |
| | Stanislaus Waste Co-gen | 24 |
| | Tulloch Power House | 17 |
| | Mariposa Energy | 198 |
| | Patterson Pass Wind | 22 |
| | Central Valley Area Total | 4,451 |
| | PG&E - Greater Bay Area | Agnews Power Plant |
| Alameda Gas Turbines | | 49 |
| Berkeley Cogeneration | | 27 |
| Buena Vista Energy Wind | | 38 |
| Chevron Richmond Refinery | | 133 |
| Columbia Solar Energy | | 19 |
| Contra Costa Carbon Plant | | 27 |
| Crockett Cogen | | 240 |
| Delta Energy Center | | 965 |
| Diablo Winds | | 9 |
| Dyer Summit Wind Repower | | 46 |
| Gateway Generating Station | | 599 |
| Gilroy Cogen | | 123 |
| Gilroy Peaker | | 182 |
| Hummingbird Energy Storage | | 76 |
| Los Esteros Critical Energy Facility | | 320 |
| Los Medanos Energy Center | | 587 |
| Marsh Landing | | 774 |
| Martinez Cogen | | 127 |
| Metcalf Energy Center | | 619 |
| Oakland Gas Turbines | | 165 |
| Ox Mountain | | 13 |
| Rhodia INC. (Rhone-Poulenc) | | 4 |
| Richmond Steam Turbine | | 18 |
| Riverview Energy Center | | 61 |
| Russell City Energy Center | | 640 |
| SRI International | | 6 |
| Tosco (Rodeo Plant) | | 50 |
| Vasco Wind | | 81 |
| WDAT | | 6 |
| Yerba Buena Battery | 4 | |
| Greater Bay Area Total | 6042 | |
| | Fresno Cogen-Agrico | 106.9 |
| | Adams_E | 19 |
| | Adera Solar | 20 |

| Planning Area | Generating Plant | Maximum Capacity |
|-----------------------------------|-------------------------------|------------------|
| PG&E - Greater Fresno Area | Alpaughn 20S | 20 |
| | Alpaughn 50S | 50 |
| | Atwell | 20 |
| | Avenal | 6 |
| | Balch 1 PH | 31 |
| | Balch 2 PH | 107 |
| | Bulld 12 | 2.8 |
| | Blackwell Solar | 3 |
| | Mendota Biomass Power | 25 |
| | Cantua | 20 |
| | Chow 2 Peaker Plant | 52.5 |
| | Chevron USA (Coalinga) | 25 |
| | Chow II Biomass to Energy | 12.5 |
| | CID Solar | 20 |
| | Citizen Solar B | 5 |
| | Coalinga Cogeneration Company | 46 |
| | CalPeak Power – Panoche LLC | 49 |
| | Crane Valley | 0.9 |
| | Corcoran PB | 20 |
| | Corcoran City | 11 |
| | Dinuba Generation Project | 13.5 |
| | EI Nido Biomass to Energy | 12.5 |
| | EE Kettleman Land | 20 |
| | Exchequer Hydro | 94.5 |
| | Fresno Waste Water | 9 |
| | Friant Dam | 27.3 |
| | Fresno Solar West & South | 3 |
| | GWF Henrietta Peaker Plant | 109.6 |
| | Gates Dist | 30 |
| | Giffen Dist | 10 |
| | Guernsey Dist | 20 |
| | HEP Peaker Plant Aggregate | 102 |
| | Hanford L.P. | 23 |
| | Hass PH Unit 1 &2 Aggregate | 146.2 |
| | Helms Pump-Gen | 1,212 |
| | J.R. Wood | 10.8 |
| | Jgbswt | 2.9 |
| | Kansas | 40 |
| | Kent | 20 |
| | Kerkhoff PH1 | 32.8 |
| | Kerkhoff PH2 | 142 |
| Kingsburg Cogen | 34.5 | |
| Kings River Hydro | 51.5 | |
| Kings River Conservation District | 112 | |
| Liberty V Lost Hills | 20 | |
| Madera | 28.7 | |
| McCall | 2.5 | |
| McSwain Hydro | 10 | |
| Merced Falls | 4 | |
| Merced Solar | 1.5 | |

| Planning Area | Generating Plant | Maximum Capacity | |
|-----------------------------|-----------------------------------|----------------------------------|-------------|
| | Mission Solar | 1.5 | |
| | Morelos Del Sol | 15 | |
| | North Star Solar 1 | 60 | |
| | O'Neill Pump-Gen | 11 | |
| | Panoche Energy Center | 410 | |
| | Pine Flat Hydro | 210 | |
| | Quinto Solar PV | 107.6 | |
| | Sanger Cogen | 67.5 | |
| | Sandrag | 19 | |
| | San Joaquin 2 | 3.2 | |
| | San Joaquin 3 | 4.2 | |
| | Schindler | 30 | |
| | Starwood Panoche | 121.8 | |
| | Stroud | 20 | |
| | Stratford | 20 | |
| | Suncity | 20 | |
| | SUN Harvest Solar | 1.5 | |
| | Rio Bravo Fresno (AKA Ultrapower) | 45 | |
| | Vega Solar | 20 | |
| | Wellhead Power Gates, LLC | 49 | |
| | Wellhead Power Panoche, LLC | 49 | |
| | Westlands | 38 | |
| | Westlands Solar Farm | 18 | |
| | Wishon/San Joaquin #1-A Aggregate | 20.4 | |
| | 2097 Helton | 1.5 | |
| | | Greater Fresno Area Total | 4382 |
| | PG&E - Kern Area | Badger Creek (PSE) | 49 |
| Chalk Cliff | | 48 | |
| Cymric Cogen (Chevron) | | 21 | |
| Cadet (Chev USA) | | 12 | |
| Dexzel | | 33 | |
| Discovery | | 44 | |
| Double C (PSE) | | 59 | |
| Elk Hills | | 623 | |
| Frito Lay | | 8 | |
| Hi Sierra Cogen | | 59 | |
| Kern | | 177 | |
| Kern Canyon Power House | | 11 | |
| Kernfront | | 59 | |
| Kern Ridge (South Belridge) | | 76 | |
| La Paloma Generation | | 1080 | |
| Midsun | | 25 | |
| Mt. Poso | | 56 | |
| Navy 35R | | 65 | |
| Oildale Cogen | | 40 | |
| Bear Mountain Cogen (PSE) | | 49 | |
| Live Oak (PSE) | | 48 | |
| McKittrick (PSE) | 45 | | |
| Rio Bravo Hydro | 11 | | |
| Shell S.E. Kern River | 27 | | |

| Planning Area | Generating Plant | Maximum Capacity |
|--|--|------------------|
| | Solar Tannenhill | 18 |
| | Sunset | 248 |
| | North Midway (Texaco) | 24 |
| | Sunrise (Texaco) | 597 |
| | Midset (Texaco) | 42 |
| | Lost Hills (Texaco) | 21 |
| | University Cogen | 36 |
| | Kern Area Total | 3,863 |
| PG&E - Central Coast and Los Padres | Moss Landing Power Plant | 1,020 |
| | Soledad Energy | 10 |
| | Basic Energy Cogen (King City) | 133 |
| | King City Peaker | 70 |
| | Sargent Canyon Cogen (Oilfields) | 45 |
| | Salinas River Cogen (Oilfields) | 45 |
| | Diablo Canyon Power Plant | 2,400 |
| | Union Oil (Tosco) | 6 |
| | Santa Maria | 8 |
| | Vandenberg Air Force Base | 15 |
| | Topaz | 562 |
| | California Valley Solar | 254 |
| | Central Coast and Los Padres Area Total | 4,568 |

Table A1-2: Existing generation plants in SCE planning area

| Planning Area | Generating Plant | Maximum Capacity |
|--|-------------------------------------|------------------|
| SCE - Tehachapi and Big Creek Corridor | Big Creek 1-1 Gen 1 | 19.9 |
| | Big Creek 1-1 Gen 2 | 21.6 |
| | Big Creek 1-2 Gen 3 | 21.6 |
| | Big Creek 1-2 Gen 4 | 31.2 |
| | Big Creek 2-1 Gen 1 | 49.3 |
| | Big Creek 2-1 Gen 2 | 49.2 |
| | Big Creek 2-2 Gen 3 | 18.7 |
| | Big Creek 2-2 Gen 4 | 19.7 |
| | Big Creek 2-3 Gen 5 | 17.0 |
| | Big Creek 2-3 Gen 6 | 18.5 |
| | Big Creek 3-1 Gen 1 | 34.0 |
| | Big Creek 3-1 Gen 2 | 33.0 |
| | Big Creek 3-2 Gen 3 | 34.0 |
| | Big Creek 3-2 Gen 4 | 36.0 |
| | Big Creek 3-3 Gen 5 | 36.5 |
| | Big Creek 4 Gen 41 | 50.1 |
| | Big Creek 4 Gen 41 | 50.1 |
| | Big Creek 8 Gen 81 | 19.8 |
| | Big Creek 8 Gen 81 | 45.0 |
| | Eastwood | 207.0 |
| | Mamoth 1G | 93.5 |
| | Mamoth 2G | 93.5 |
| | Portal | 9.6 |
| | Warne 1 | 38.0 |
| | Warne 2 | 38.0 |
| | Pandol 1 | 56.0 |
| | Pandol 2 | 56.0 |
| | Ultragen | 41.0 |
| | Omar 1G | 90.8 |
| | Omar 2G | 90.8 |
| | Omar 3G | 90.8 |
| | Omar 4G | 90.8 |
| | SYCCYN 1G | 75.0 |
| | SYCCYN 2G | 75.0 |
| | SYCCYN 3G | 75.0 |
| | SYCCYN 4G | 75.0 |
| | Pastoria Energy Facility | 770.0 |
| | Manzana Wind Project | 189.0 |
| | Pacific Wind Project | 143.5 |
| | Coram Brodie Wind Project Expansion | 51.0 |
| | Coram Brodie Wind Project Phase 2 | 51.0 |
| | Alta 2012 | 720.0 |
| | CPC Alta Wind 4-5 (fka CPC East) | 420.0 |
| CPC Alta Wind 1-3 (fka CPC West) | 600.0 | |
| Windstar I Alternate | 120.0 | |
| Eastwind | 60.0 | |
| Westwind | 21.0 | |
| Tehachap | 114.4 | |

| Planning Area | Generating Plant | Maximum Capacity |
|---------------|--|------------------|
| | WNDT167 | 120.0 |
| | North Sky River Wind | 170.0 |
| | Sky River | 76.9 |
| | Catalina Solar | 150.0 |
| | KR 3-1 | 22.8 |
| | KR 3-2 | 21.5 |
| | LakeGen | 18.0 |
| | Wellhead Power Delano | 50.0 |
| | Kawgen | 18.0 |
| | Avenue | 318.0 |
| | Kingsbird | 270.0 |
| | AV Solar 1 | 249.0 |
| | Arbwind | 21.8 |
| | Canwind | 65.0 |
| | Enwind | 47.1 |
| | Encawind | 112.9 |
| | Flowind | 40.8 |
| | Dutchwind | 14.0 |
| | Northwind | 19.4 |
| | Oakwind | 27.9 |
| | Southwind | 6.6 |
| | Zondwind | 32.6 |
| | Breeze | 12.5 |
| | Midwind | 18.0 |
| | Morwind | 56.0 |
| | Kern River | 24.0 |
| | Borel | 10.0 |
| | Alta Vista Suntower Generating Station | 66.0 |
| | Antelope Power Plant | 20.0 |
| | Down | 20.0 |
| | Twilight | 20.0 |
| | Antelope Valley PV1 | 318.5 |
| | Antelope Valley PV2 | 285.0 |
| | Rising Tree | 198.8 |
| | Western Antelope Blue Sky Ranch A | 20.0 |
| | First Solar North Rosamond | 100.8 |
| | AV Solar Ranch 2-A | 20.4 |
| | AV Solar Ranch 2-B | 20.4 |
| | RE Astoria | 184.0 |
| | RE Camelot | 45.0 |
| | RE Columbia | 15.0 |
| | TA Acacia | 20.0 |
| | SGS Antelope Valley | 306.0 |
| | North Rosamond | 174.0 |
| | Alamo | 19.7 |
| | Alpine Solar | 66 |
| | Antelope 2 - Antelope Expansion 2 | 121.3 |
| | Big Sky Solar - Bayshore | 60.6 |
| | Big Sky Solar - DSR | 55.8 |

| Planning Area | Generating Plant | Maximum Capacity |
|---------------------------------|---|-------------------------|
| | Herder: Ducor | 76.6 |
| | RE Garland | 203.8 |
| | Goldtown | 13.0 |
| | Monolith | 38.3 |
| | Portal Ridge Solar | 34.3 |
| | Big Sky Solar - Solverde | 86.5 |
| | Big Sky Solar - Summer Solar | 20.2 |
| | Growers: Tulare Solar | 37.4 |
| | Valentine Solar | 101.2 |
| | Tehachapi and Big Creek Corridor Total | 9,922.3 |
| | SCE - East of Lugo Area | Desert Star Energy Star |
| Mountain Pass - Ivanpah Solar | | 392 |
| Copper Mountain Solar I | | 58 |
| Copper Mountain Solar II | | 155 |
| East of Lugo Area Total | | 1,111 |
| SCE - North of Lugo | ALBAG1 | 140 |
| | BLM E7G | 24 |
| | BLM E8G | 24 |
| | BLM W9G | 19.5 |
| | BORAX I | 22 |
| | BSPHYD26 | 14.18 |
| | BSPHYD34 | 15.9 |
| | BLM E7G | 24 |
| | CALGEN | 92.2 |
| | CSA DIABLO 1 | 15 |
| | CSA DIABLO 2 | 10 |
| | High Desert Power Plant | 854.9 |
| | KERRMGEE | 15 |
| | LUNDY | 3 |
| | LUZ (8 & 9) | 160 |
| | NAVYII4G | 22.5 |
| | NAVYII5G | 22.5 |
| | NAVYII6G | 22.5 |
| | OCASOG2 | 140 |
| | OXBOW G1 | 49.8 |
| | POOLE | 10.9 |
| | RUSH | 11.5 |
| | SEGS 1G | 14.2 |
| | SEGS 2G | 43.8 |
| SUNGEN | 150 | |
| North of Lugo Area Total | 1,897 | |
| | Blythe Energy Center | 520 |
| | Indigo Peaker | 136 |
| | Cabazon Wind | 42.6 |
| | Mountainview IV Wind | 42 |
| | Wintec 5 Wind | 3.7 |
| | Wintec 6 Wind | 45 |
| | Pacificorp Wind | 2.1 |

| Planning Area | Generating Plant | Maximum Capacity |
|----------------------------|----------------------------------|------------------|
| SCE - Eastern Area | FPLE Green 1 Wind | 8.7 |
| | FPLE Green 2 Wind | 3.0 |
| | FPLE Green 3 Wind | 6.8 |
| | Wintec 2 Wind | 16.5 |
| | Wintec 3 Wind | 11.6 |
| | Wintec 4 Wind | 16.5 |
| | Seawest 1 Wind | 44.4 |
| | Seawest 2 Wind | 22.2 |
| | Seawest 3 Wind | 22.4 |
| | Renwind Wind | 9.0 |
| | Whitewater Wind | 66 |
| | Altamesa 4 Wind | 40 |
| | Painted Hills Wind | 16.9 |
| | Altwind QF 1 | 32.9 |
| | Altwind QF 2 | 15.1 |
| | Buchwind QF | 17 |
| | Capwind QF | 20 |
| | Garnet QF Wind | 101.4 |
| | Panaero Wind | 30 |
| | Renwind QF 1 | 6.3 |
| | Renwind QF 2 | 6.6 |
| | Sanwind QF 1 | 3.0 |
| | Sanwind QF 2 | 28.0 |
| | Seawind QF | 27 |
| | Terawind QF | 22.5 |
| | Transwind QF | 40.0 |
| | Venwind QF 1 | 25.5 |
| | Venwind QF 2 | 19.3 |
| | CPV Sentinel Peaker | 850 |
| | Genesis Solar Energy Project | 250 |
| | Inland Empire Energy Center | 800 |
| | Desert Sunlight PV Project | 550 |
| | McCoy Photovoltaic Project | 250 |
| Mountainview Power Project | 1,048 | |
| Dracker Solar ¹ | 247 | |
| Windustries | 9.8 | |
| Edom Hills Wind Farm | 20 | |
| Karen Avenue Wind Farm | 11.7 | |
| Eastern Area Total | 5,506.5 | |
| SCE Metro Area | Agua Mansa Generating Facility | 43 |
| | Alamitos | 2,010 |
| | Anaheim CT | 41 |
| | AP North Lake Solar | 20 |
| | Barre Peaker | 45 |
| | Berry Petroleum Placerita | 37 |
| | BP West Coast Products | 21 |
| | Calabasas Gas-to-Energy Facility | 7 |
| | Canyon Power Plant | 195 |

¹ The total size is 485 MW, and 247MW is operational.

| Planning Area | Generating Plant | Maximum Capacity |
|---------------|---|------------------|
| | Carson Cogeneration Company | 47 |
| | Center Area Lumped Units | 18 |
| | Center Peaker | 45 |
| | Century | 36 |
| | Chevron CIC | 170.7 |
| | Chiquita Canyon Landfill Generating Facility | 7 |
| | City Of Long Beach | 28 |
| | Clearwater Power Plant | 28 |
| | Corona Energy Partners, Ltd. | 30 |
| | County Of Los Angeles (Pitchess Honor Ranch) | 19 |
| | Coyote Canyon | 6 |
| | Devil Canyon | 235 |
| | Drews | 36 |
| | E. F. Oxnard, Incorporated | 34 |
| | El Segundo Energy Center | 570 |
| | Ellwood Generating Station | 54 |
| | Etiwanda Hydro Recovery Plant | 10 |
| | Foothill Hydro Recovery Plant | 8 |
| | Glen Arm Power Plant | 132 |
| | Grapeland Peaker | 43 |
| | H. Gonzales Gas Turbine | 12 |
| | Harbor Cogen Combined Cycle | 100 |
| | Houweling Nurseries Oxnard CHP | 13.2 |
| | Huntington Beach 1 & 2 | 452 |
| | L.A. County Sanitation District #2 (Puente Hills B) | 47 |
| | Long Beach 1 – 4 | 260 |
| | Malburg Generating Facility | 134 |
| | Mira Loma Peaker | 43 |
| | MM West Coast Covina, LLC | 6 |
| | Mojave Siphon PH | 18 |
| | MWD Perris Hydroelectric Recovery Plant | 8 |
| | O.L.S. Energy Company- Chino-Mens Inst. | 25 |
| | Ormond Beach | 1,516 |
| | Procter & Gamble Paper Prod. (Oxnard II) | 46 |
| | Redondo ² | 1,356 |
| | Ripon Cogeneration | 27 |
| | Riverside Energy Resource Center (RERC) | 194 |
| | San Dimas Hydro Recovery Plant | 8 |
| | Springs Generation Plant | 36 |
| | SPVP044 | 8 |
| | Sunshine Gas Producers, L.L.C. | 20 |
| | Tequesquite Landfill Solar Project | 7.5 |
| | Walnut Creek Energy Park | 500 |
| | Watson Cogeneration | 406 |
| | Weyerhaeuser Company (Formerly Williamette Industries) | 13 |

² Redondo Unit 7 retired on 10/1/2019

| Planning Area | Generating Plant | Maximum Capacity |
|---------------|-----------------------------|------------------|
| | Multiple smaller facilities | 85.5 |
| | Metro Area Total | 9,987 |

Table A1-3: Existing generation plants in SDG&E planning area

| Planning Area | Generating Plant | Maximum Capacity |
|------------------------------|------------------------------|------------------|
| SDG&E | Otay Mesa GT1 | 185.1 |
| | Otay Mesa GT2 | 185.1 |
| | Otay Mesa ST1 | 233.5 |
| | Larkspur Border 1 | 46.0 |
| | Larkspur Border 2 | 46.0 |
| | Cabrillo | 3.1 |
| | Capistrano | 5.3 |
| | Carlton Hills | 1.6 |
| | Carlton Hills | 0.3 |
| | Chicarita | 3.7 |
| | Border/Calpeak | 48.0 |
| | El Cajon/Calpeak | 45.4 |
| | Escondido/Calpeak | 48.0 |
| | DIVSON_6_NSQF | 41.7 |
| | East Gate | 0.3 |
| | Encina 2 | 104.0 |
| | Encina 3 | 110.0 |
| | Encina 5 | 300.0 |
| | Encina 4 | 330.0 |
| | Encina GT | 14.5 |
| | MMC-Electrovest (Escondido) | 49.5 |
| | Palomar_CT1 | 162.4 |
| | Palomar_CT2 | 162.4 |
| | Palomar_ST | 240.8 |
| | Goalline | 38.4 |
| | Mesa Heights | 3.6 |
| | Miramar 1 | 48.0 |
| | Miramar 2 | 47.9 |
| | Mission | 0.7 |
| | North Island | 36.4 |
| | Otay Landfill I | 2.8 |
| | Otay Landfill II | 2.6 |
| | Covanta Otay 3 | 3.5 |
| | MMC-Electrovest (Otay) | 35.5 |
| | Orange Grove 1 | 50.0 |
| | Orange Grove 2 | 50.0 |
| | NTC Point Loma Steam turbine | 2.0 |
| | NTC Point Loma | 19.4 |
| | Sampson | 1.0 |
| | San Marcos Landfill | 0.7 |
| El Cajon Energy Center | 48.1 | |
| Lake Hodges Pumped Storage 1 | 20.0 | |

| Planning Area | Generating Plant | Maximum Capacity |
|---------------|------------------------------|------------------|
| | Lake Hodges Pumped Storage 2 | 20.0 |
| | BREGGO SOLAR (NQC) | 26.0 |
| | Kumeyaay | 50.0 |
| | East County | 155.0 |
| | Ocotillo Express | 265.0 |
| | Miramar GT 1 | 17.0 |
| | Miramar GT 2 | 16.0 |
| | Naval Station | 47.0 |
| | El Cajon GT | 13.0 |
| | Ash | 0.9 |
| | Rancho Santa Fe 1 | 0.4 |
| | Rancho Santa Fe 2 | 0.3 |
| | Murray | 0.2 |
| | Kyocera | 0.1 |
| | SDG&E Area Total | 3,388 |

Table A1-4: Existing generation plants in VEA planning area

| Planning Area | Generating Plant | Maximum Capacity |
|----------------------|-------------------------|-------------------------|
| VEA | Community Solar (WDAT) | 15 |
| | VEA Area Total | 15 |

2 Retired Generation (non-OTC)

Table A2-1: Generation plants projected to be retired in planning horizon

| PTO Area | Project | Capacity (MW) | Expected Retirement Year |
|-----------------|----------------|----------------------|---------------------------------|
| SCE | Ellwood | 54 | 2021 |

3 Planned Generation

Table A3-1: Planned Generation

| PTO Area | Project | Capacity (MW) | Expected In-service Year |
|-----------------|---|----------------------|---------------------------------|
| SCE | Huntington Beach Energy Project Unit 6 (CCGT) * | 644 | 2020 |
| | Alamitos Energy Center Unit 8 (CCGT) * | 640 | 2020 |

Notes:

*These projects have received PPTA approvals from the CPUC as part of Long Term Procurement Plan (LTPP) process.

4 Reactive Resources

Table A4-1: Summary of key existing reactive modeled in ISO reliability assessments

| Substation | Capacity (Mvar) | Technology |
|--------------------------|-----------------------------------|------------------------|
| Gates | 225 | Shunt Capacitors |
| Los Banos | 225 | Shunt Capacitors |
| Gregg | 150 | Shunt Capacitors |
| McCall | 132 | Shunt Capacitors |
| Mesa (PG&E) | 100 | Shunt Capacitors |
| Metcalf | 350 | Shunt Capacitors |
| Olinda | 200 | Shunt Capacitors |
| Table Mountain | 454 | Shunt Capacitors |
| Devers | 156 & 605 (dynamic capability) | Static VAR Compensator |
| Rector | 200 | Static VAR Compensator |
| Santiago | 3x81 | Synchronous Condensers |
| Sunrise San Luis Rey | 63 | Shunt Capacitors |
| Southbay / Bay Boulevard | 100 | Shunt Capacitors |
| Mira Loma 230kV | 158 | Shunt Capacitors |
| Mira Loma 500kV | 300 | Shunt Capacitors |
| Suncrest | 126 | Shunt Capacitors |
| Penasquitos | 126 | Shunt Capacitors |
| San Luis Rey | 2x225 | Synchronous Condensers |
| Talega | 2x225 | Synchronous Condensers |
| Talega | 100 | STATCOM |
| Miguel | 2x225 | Synchronous Condensers |
| San Onofre | 225 | Synchronous Condensers |

5 Special Protection Schemes

Table A5-1: Existing Special Protection Schemes in the PG&E area

| PTO | Area | SPS Name |
|---------------------|----------------------------|---|
| PG&E | Central Coast / Los Padres | Mesa and Santa Maria Undervoltage SPS |
| | Central Coast / Los Padres | Divide Undervoltage SPS |
| | Central Coast / Los Padres | Temblor-San Luis Obispo 115 kV Overload Scheme |
| | Bulk | COI RAS |
| | Bulk | Colusa SPS |
| | Bulk | Diablo Canyon SPS |
| | Bulk | Gates 500/230 kV Bank #11 SPS |
| | Bulk | Midway 500/230 kV Transformer Overload SPS |
| | Bulk | Path 15 IRAS |
| | Bulk | Path 26 RAS North to South |
| | Bulk | Path 26 RAS South to North |
| | Bulk | Table Mt 500/230 kV Bank #1 SPS |
| | Central Valley | Drum (Sierra Pacific) Overload Scheme (Path 24) |
| | Central Valley | Stanislaus – Manteca 115 kV Line Load Limit Scheme |
| | Central Valley | Vaca-Suisun 115 kV Lines Thermal Overload Scheme |
| | Central Valley | West Sacramento 115 kV Overload Scheme |
| | Central Valley | West Sacramento Double Line Outage Load Shedding SPS Scheme |
| | Greater Fresno Area | Ashlan SPS |
| | Greater Fresno Area | Atwater SPS |
| | Greater Fresno Area | Gates Bank 11 SPS |
| Greater Fresno Area | Helms HTT RAS | |
| Greater Fresno Area | Helms RAS | |

| | | |
|--|---------------------|--|
| | Greater Fresno Area | Henrietta RAS |
| | Greater Fresno Area | Herndon-Bullard SPS |
| | Greater Fresno Area | Kerckhoff 2 RAS |
| | Greater Fresno Area | Reedley SPS |
| | Greater Bay Area | Metcalf SPS |
| | Greater Bay Area | SF RAS |
| | Greater Bay Area | South of San Mateo SPS |
| | Greater Bay Area | Metcalf-Monta Vista 230kV OL SPS |
| | Greater Bay Area | San Mateo-Bay Meadows 115kV line OL |
| | Greater Bay Area | Moraga-Oakland J 115kV line OL RAS |
| | Greater Bay Area | Grant 115kV OL SPS |
| | Greater Bay Area | Oakland 115 kV C-X Cable OL RAS |
| | Greater Bay Area | Oakland 115kV D-L Cable OL RAS |
| | Greater Bay Area | Sobrante-Standard Oil #1 & #2-115kV line |
| | Greater Bay Area | Gilroy SPS |
| | Greater Bay Area | Transbay Cable Run Back Scheme |
| | Humboldt | Humboldt – Trinity 115kV Thermal Overload Scheme |
| | North Valley | Caribou Generation 230 kV SPS Scheme #1 |
| | North Valley | Caribou Generation 230 kV SPS Scheme #2 |
| | North Valley | Cascade Thermal Overload Scheme |
| | North Valley | Hatchet Ridge Thermal Overload Scheme |
| | North Valley | Coleman Thermal Overload Scheme |

Table A5-2: Existing Special Protection Schemes in SCE area

| PTO | Area | SPS Name |
|------------|---------------------------------------|---|
| SCE | Antelope-Bailey | Antelope-RAS |
| | Big Creek Corridor | Big Creek / San Joaquin Valley RAS |
| | North of Lugo | Bishop RAS |
| | North of Lugo | High Desert Power Project RAS |
| | North of Lugo | Kramer RAS |
| | Antelope-Bailey | Midway-Vincent RAS |
| | Antelope-Bailey | Lancaster N-2 Line Loss Tripping Scheme |
| | Antelope-Bailey | Palmdale N-2 Line Loss Tripping Scheme |
| | Antelope-Bailey | Pastoria Energy Facility Existing RAS |
| | North of Lugo | Reliant Energy Cool Water Stability Tripping Scheme |
| | Eastern Area | West-of-Devers Remedial Action Scheme |
| | Eastern Area | Colorado River Corridor SPS |
| | Eastern Area | Inland Empire Area RAS |
| | Eastern Area | Blythe Energy RAS |
| | Eastern Area | Eagle Mountain Thermal Overload Scheme |
| | Metro Area | El Nido N-2 Remedial Action Scheme |
| | Metro Area | Mountain view Power Project Remedial Action Scheme |
| | Metro Area | South of Lugo N-2 Remedial Action Scheme |
| | Metro Area | Mira Loma Low Voltage Load Shedding |
| | Metro Area | Santiago N-2 Remedial Action Scheme |
| | Metro Area | Valley Direct Load Trip Remedial Action Scheme |
| Metro Area | El Segundo N-2 Remedial Action Scheme | |

Table A5-3: Existing Special Protection Schemes in the SDG&E

| PTO | Area | SPS Name |
|-------|-----------------------------------|---|
| SDG&E | SDG&E | TL695A at Talega SPS |
| | SDG&E | TL682/TL685 SPS |
| | SDG&E | TL633 At Rancho Carmel SPS |
| | SDG&E | TL687 at Borrego SPS |
| | SDG&E | TL13816 SPS |
| | SDG&E | TL13835 SPS |
| | SDG&E | Border TL649 Overload SPS |
| | SDG&E | Crestwood TL626 at DE SPS for Kumeyaay Wind Generation |
| | SDG&E | Crestwood TL629 at CN SPS for Kumeyaay Wind Generation |
| | SDG&E | Crestwood TL629 at DE SPS for Kumeyaay Wind Generation |
| | SDG&E | 230kV TL 23040 Otay Mesa – Tijuana SPS (currently disabled and will not be enabled until its need is reevaluated with CENACE) |
| | SDG&E | 230kV Otay Mesa Energy Center Generation SPS |
| | SDG&E | ML (Miguel) Bank 80/81 Overload SPS |
| | SDG&E | CFE SPS to protect lines from La Rosita to Tijuana |
| | SDG&E | TL 50001 IV Generator Drop SPS |
| | SDG&E | TL 50003 IV Generator Drop SPS |
| | SDG&E | TL 50004 IV Generator Drop SPS |
| | SDG&E | TL 50005 IV Generator Drop SPS |
| | SDG&E | TL 50001 IV Generator SPS |
| | SDG&E | Imperial Valley BK80 RAS |
| | SDG&E | TL23040 IV 500 kV N-1 RAS |
| SDG&E | TL 23054 / TL23055 RAS | |
| SDG&E | Path 44 South of SONGS Safety Net | |