APPENDIX A: System Data
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# 1 Existing Generation

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

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1 This project is partially operational at 126.16 MW, with a total capacity of 250 MW
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Table A1-4: Existing generation plants in VEA planning area

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2 Retired Generation (non-OTC)

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

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## 3 Planned Generation

Table A3-1: Planned Generation

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**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

<table>
<thead>
<tr>
<th>Substation</th>
<th>Capacity (Mvar)</th>
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<tbody>
<tr>
<td>Gates</td>
<td>225</td>
</tr>
<tr>
<td>Los Banos</td>
<td>225</td>
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<tr>
<td>Gregg</td>
<td>150</td>
</tr>
<tr>
<td>McCall</td>
<td>132</td>
</tr>
<tr>
<td>Mesa</td>
<td>100</td>
</tr>
<tr>
<td>Metcalf</td>
<td>350</td>
</tr>
<tr>
<td>Olinda</td>
<td>200</td>
</tr>
<tr>
<td>Table Mountain</td>
<td>454</td>
</tr>
<tr>
<td>Devers</td>
<td>156 &amp; 605 (dynamic capability)</td>
</tr>
<tr>
<td>Rector</td>
<td>200</td>
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<tr>
<td>Santiago</td>
<td>243</td>
</tr>
<tr>
<td>Sunrise San Luis Rey</td>
<td>63</td>
</tr>
<tr>
<td>Southbay / Bay Boulevard</td>
<td>100</td>
</tr>
<tr>
<td>Miraloma</td>
<td>158</td>
</tr>
<tr>
<td>Suncrest</td>
<td>126</td>
</tr>
<tr>
<td>Penasquitos</td>
<td>126</td>
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</table>
# 5 Special Protection Schemes

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

<table>
<thead>
<tr>
<th>PTO</th>
<th>Area</th>
<th>SPS Name</th>
</tr>
</thead>
<tbody>
<tr>
<td>PG&amp;E</td>
<td>Central Coast / Los Padres</td>
<td>Mesa and Santa Maria Undervoltage SPS</td>
</tr>
<tr>
<td></td>
<td>Central Coast / Los Padres</td>
<td>Divide Undervoltage SPS</td>
</tr>
<tr>
<td></td>
<td>Central Coast / Los Padres</td>
<td>Temblor-San Luis Obispo 115 kV Overload Scheme</td>
</tr>
<tr>
<td></td>
<td>Bulk</td>
<td>COI RAS</td>
</tr>
<tr>
<td></td>
<td>Bulk</td>
<td>Colusa SPS</td>
</tr>
<tr>
<td></td>
<td>Bulk</td>
<td>Diablo Canyon SPS</td>
</tr>
<tr>
<td></td>
<td>Bulk</td>
<td>Gates 500/230 kV Bank #11 SPS</td>
</tr>
<tr>
<td></td>
<td>Bulk</td>
<td>Midway 500/230 kV Transformer Overload SPS</td>
</tr>
<tr>
<td></td>
<td>Bulk</td>
<td>Path 15 IRAS</td>
</tr>
<tr>
<td></td>
<td>Bulk</td>
<td>Path 26 RAS North to South</td>
</tr>
<tr>
<td></td>
<td>Bulk</td>
<td>Path 26 RAS South to North</td>
</tr>
<tr>
<td></td>
<td>Bulk</td>
<td>Table Mt 500/230 kV Bank #1 SPS</td>
</tr>
<tr>
<td></td>
<td>Central Valley</td>
<td>Drum (Sierra Pacific) Overload Scheme (Path 24)</td>
</tr>
<tr>
<td></td>
<td>Central Valley</td>
<td>Stanislaus – Manteca 115 kV Line Load Limit Scheme</td>
</tr>
<tr>
<td></td>
<td>Central Valley</td>
<td>Vaca-Suisun 115 kV Lines Thermal Overload Scheme</td>
</tr>
<tr>
<td></td>
<td>Central Valley</td>
<td>West Sacramento 115 kV Overload Scheme</td>
</tr>
<tr>
<td>PTO</td>
<td>Area</td>
<td>SPS Name</td>
</tr>
<tr>
<td>--------------</td>
<td>-----------------------</td>
<td>-----------------------------------------------</td>
</tr>
<tr>
<td>Central Valley</td>
<td>West Sacramento Double Line Outage Load Shedding SPS Scheme</td>
<td></td>
</tr>
<tr>
<td>Greater Fresno Area</td>
<td>Ashlan SPS</td>
<td></td>
</tr>
<tr>
<td>Greater Fresno Area</td>
<td>Atwater SPS</td>
<td></td>
</tr>
<tr>
<td>Greater Fresno Area</td>
<td>Gates Bank 11 SPS</td>
<td></td>
</tr>
<tr>
<td>Greater Fresno Area</td>
<td>Helms HTT RAS</td>
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<tr>
<td>Greater Fresno Area</td>
<td>Helms RAS</td>
<td></td>
</tr>
<tr>
<td>Greater Fresno Area</td>
<td>Henrietta RAS</td>
<td></td>
</tr>
<tr>
<td>Greater Fresno Area</td>
<td>Herndon-Bullard SPS</td>
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<tr>
<td>Greater Fresno Area</td>
<td>Kerckhoff 2 RAS</td>
<td></td>
</tr>
<tr>
<td>Greater Fresno Area</td>
<td>Reedley SPS</td>
<td></td>
</tr>
<tr>
<td>Greater Fresno Area</td>
<td>Reedley SPS</td>
<td></td>
</tr>
<tr>
<td>Greater Bay Area</td>
<td>Metcalf SPS</td>
<td></td>
</tr>
<tr>
<td>Greater Bay Area</td>
<td>SF RAS</td>
<td></td>
</tr>
<tr>
<td>Greater Bay Area</td>
<td>South of San Mateo SPS</td>
<td></td>
</tr>
<tr>
<td>Greater Bay Area</td>
<td>Metcalf-Monta Vista 230kV OL SPS</td>
<td></td>
</tr>
<tr>
<td>Greater Bay Area</td>
<td>San Mateo-Bay Meadows 115kV line OL</td>
<td></td>
</tr>
<tr>
<td>Greater Bay Area</td>
<td>Moraga-Oakland J 115kV line OL RAS</td>
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<tr>
<td>Greater Bay Area</td>
<td>Grant 115kV OL SPS</td>
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<tr>
<td>Greater Bay Area</td>
<td>Oakland 115 kV C-X Cable OL RAS</td>
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<td>Greater Bay Area</td>
<td>Oakland 115kV D-L Cable OL RAS</td>
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<td>Greater Bay Area</td>
<td>Sobrante-Standard Oil #1 &amp; #2-115kV line</td>
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<td>Greater Bay Area</td>
<td>Gilroy SPS</td>
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<tr>
<td>Greater Bay Area</td>
<td>Transbay Cable Run Back Scheme</td>
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<tr>
<td>Humboldt</td>
<td>Humboldt – Trinity 115kV Thermal Overload Scheme</td>
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<tr>
<td>North Valley</td>
<td>Caribou Generation 230 kV SPS Scheme #1</td>
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<tr>
<td>PTO</td>
<td>Area</td>
<td>SPS Name</td>
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<tr>
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<td>North Valley</td>
<td>Caribou Generation 230 kV SPS Scheme #2</td>
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<td></td>
<td>North Valley</td>
<td>Cascade Thermal Overload Scheme</td>
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<tr>
<td></td>
<td>North Valley</td>
<td>Hatchet Ridge Thermal Overload Scheme</td>
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<td>North Valley</td>
<td>Coleman Thermal Overload Scheme</td>
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### Table A5-2: Existing Special Protection Schemes in SCE area

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<thead>
<tr>
<th>PTO</th>
<th>Area</th>
<th>SPS Name</th>
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<tbody>
<tr>
<td>Antelope-Bailey</td>
<td>Antelope-RAS</td>
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<tr>
<td>Big Creek Corridor</td>
<td>Big Creek / San Joaquin Valley RAS</td>
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</tr>
<tr>
<td>North of Lugo</td>
<td>Bishop RAS</td>
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<tr>
<td>North of Lugo</td>
<td>High Desert Power Project RAS</td>
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</tr>
<tr>
<td>North of Lugo</td>
<td>Kramer RAS</td>
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</tr>
<tr>
<td>Antelope-Bailey</td>
<td>Midway-Vincent RAS</td>
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</tr>
<tr>
<td>Antelope-Bailey</td>
<td>Lancaster N-2 Line Loss Tripping Scheme</td>
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<tr>
<td>Antelope-Bailey</td>
<td>Palmdale N-2 Line Loss Tripping Scheme</td>
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<td>Antelope-Bailey</td>
<td>Pastoria Energy Facility Existing RAS</td>
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<td>North of Lugo</td>
<td>Reliant Energy Cool Water Stability Tripping Scheme</td>
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<td>Eastern Area</td>
<td>West-of-Devers Remedial Action Scheme</td>
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<td>Blythe Energy RAS</td>
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<td>Eagle Mountain Thermal Overload Scheme</td>
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<td>Metro Area</td>
<td>El Nido N-2 Remedial Action Scheme</td>
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<td>Mountain view Power Project Remedial Action Scheme</td>
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<td>South of Lugo N-2 Remedial Action Scheme</td>
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<td>Metro Area</td>
<td>Mira Loma Low Voltage Load Shedding</td>
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<td>Santiago N-2 Remedial Action Scheme</td>
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<td>Valley Direct Load Trip Remedial Action Scheme</td>
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<td>El Segundo N-2 Remedial Action Scheme</td>
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<tr>
<td>SDG&amp;E</td>
<td>TL695A at Talega SPS</td>
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<td>TL682/TL685 SPS</td>
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<td>TL633 At Rancho Carmel SPS</td>
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<td>TL687 at Borrego SPS</td>
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<td>TL13816 SPS</td>
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<td>SDG&amp;E</td>
<td>Crestwood TL626 at DE SPS for Kumeyaay Wind Generation</td>
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<tr>
<td>SDG&amp;E</td>
<td>Crestwood TL629 at CN SPS for Kumeyaay Wind Generation</td>
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<tr>
<td>SDG&amp;E</td>
<td>Crestwood TL629 at DE SPS for Kumeyaay Wind Generation</td>
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<tr>
<td>SDG&amp;E</td>
<td>230kV TL 23040 Otay Mesa – Tijuana SPS (currently disabled and will not be enabled until its need is reevaluated with CFE)</td>
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<td>SDG&amp;E</td>
<td>230kV Otay Mesa Energy Center Generation SPS</td>
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<td>ML (Miguel) Bank 80/81 Overload SPS</td>
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<td>SDG&amp;E</td>
<td>CFE SPS to protect lines from La Rosita to Tijuana</td>
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<td>TL 50001 IV Generator SPS</td>
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