2026-2027 ISO Final Reliability Assessment - Study Results
Study Area: **Entire PG&E System**
High Voltages Under P0 Conditions

California ISO

Bus/Substation	Area	Division	Voltage PU (Base Scenarios)				Voltage PU (Sensitivity Scenarios)	Project & Potential Mitigation Solutions
			2028 Spring Off-Peak	2031 Spring Off-Peak	2036 Summer Off-Peak	2036 Winter Off-Peak	2028 OP Heavy Renewable & Min Gas Gen	
WYANDTTE 115 kV	North Valley	North Valley	1.0603	1.0564	1.0504	1.0541	1.0533	System adjustments or voltage support if needed
PALERMO 115 kV	North Valley	North Valley	1.0637	1.0584	1.0508	1.0554	1.0566	System adjustments or voltage support if needed
HERDLYN 60 kV	Central Valley	Stockton	1.0630	1.0661	1.0510	1.0546	1.0598	System adjustments or voltage support if needed
SALADO 60 kV	Central Valley	Stanislaus	1.0538	1.0502	1.0480	1.0551	1.0558	System adjustments or voltage support if needed
CROWCREEK SS 60 kV	Central Valley	Stanislaus	1.0505	1.0420	1.0462	1.0489	1.0531	System adjustments or voltage support if needed
HELM 70 kV	Fresno	Fresno	1.0447	1.0461	1.0499	1.0466	1.0462	System adjustments or voltage support if needed
HENRIETTAD 70 kV	Fresno	Fresno	1.0392	1.0364	1.0458	1.0345	1.0451	System adjustments or voltage support if needed
KENTSWSTA 70 kV	Fresno	Fresno	1.0402	1.0375	1.0428	1.0362	1.0462	System adjustments or voltage support if needed
KNGLOBUS 70 kV	Fresno	Fresno	1.0603	1.0704	1.0810	1.0755	1.0639	System adjustments or voltage support if needed
ARCO 70 kV	Kern	Kern	1.0466	1.0437	1.0369	1.0420	1.0524	System adjustments or voltage support if needed
OLIVE_SS 115 kV	Fresno	Fresno	1.0524	1.0348	1.0347	1.0436	1.0498	System adjustments or voltage support if needed
KERN PP1 70 kV	Kern	Kern	1.0402	1.0478	1.0449	1.0481	1.0452	System adjustments or voltage support if needed
FULTON 115 kV	North Coast North Bay	North Coast	1.0266	1.0587	1.0477	1.0411	1.0247	System adjustments or voltage support if needed
VACA-DXN 60 kV	Central Valley	Sacramento	1.0477	1.0511	1.0594	1.0455	1.0520	System adjustments or voltage support if needed
PLAINFIELDE 60 kV	Central Valley	Sacramento	1.0164	1.0610	1.1181	1.0099	1.0211	System adjustments or voltage support if needed
E.MRYSVE 115 kV	Central Valley	Sierra	1.0438	1.0562	1.0557	1.0530	1.0438	System adjustments or voltage support if needed
DRUMPH1 115 kV	Central Valley	Sierra	1.0468	1.0525	1.0479	1.0507	1.0492	System adjustments or voltage support if needed
SILVERDO 115 kV	North Coast North Bay	North Bay	1.0189	1.0530	1.0448	1.0373	1.0174	System adjustments or voltage support if needed
IGNACIO 115 kV	North Coast North Bay	North Bay	1.0262	1.0565	1.0685	1.0620	1.0236	System adjustments or voltage support if needed
LS GLLNS 115 kV	North Coast North Bay	North Bay	1.0206	1.0540	1.0686	1.0611	1.0180	System adjustments or voltage support if needed
SAN RAFL 115 kV	North Coast North Bay	North Bay	1.0177	1.0524	1.0680	1.0601	1.0151	System adjustments or voltage support if needed
BELLOTA 115 kV	Central Valley	Stockton	1.0403	1.0530	1.0371	1.0415	1.0478	System adjustments or voltage support if needed
VLLY SPS 60 kV	Central Valley	Stockton	1.0417	1.0557	1.0424	1.0452	1.0475	System adjustments or voltage support if needed
PANOCHE1 115 kV	Fresno	Yosemite	1.0502	1.0568	1.0523	1.0502	1.0506	System adjustments or voltage support if needed
ORO LOMA 70 kV	Fresno	Yosemite	1.0246	1.0431	1.0432	1.0403	1.0303	System adjustments or voltage support if needed
GLASS 70 kV	Fresno	Yosemite	1.0135	1.0612	1.1058	1.0382	1.0285	System adjustments or voltage support if needed
MADERA 70 kV	Fresno	Yosemite	1.0153	1.0627	1.1077	1.0399	1.0297	System adjustments or voltage support if needed
BORDEN 70 kV	Fresno	Yosemite	1.0205	1.0650	1.1067	1.0475	1.0339	System adjustments or voltage support if needed
MENDOTA 70 kV	Fresno	Yosemite	1.0207	1.0444	1.0431	1.0217	1.0408	System adjustments or voltage support if needed
GUERNSEY 70 kV	Fresno	Fresno	1.0114	1.0395	1.0577	0.9944	1.0176	System adjustments or voltage support if needed
COPPRMNE 70 kV	Fresno	Fresno	1.0058	1.0471	1.0784	1.0513	1.0140	System adjustments or voltage support if needed
BIOLA 70 kV	Fresno	Fresno	1.0108	1.0474	1.0377	1.0215	1.0251	System adjustments or voltage support if needed
TVY VLLY 70 kV	Fresno	Fresno	1.0114	1.0425	1.0518	1.0373	1.0184	System adjustments or voltage support if needed
KEARNEY 70 kV	Fresno	Fresno	1.0287	1.0507	1.0419	1.0447	1.0427	System adjustments or voltage support if needed
REEDLEY 70 kV	Fresno	Fresno	1.0217	1.0398	1.0339	1.0372	1.0271	System adjustments or voltage support if needed
DINUBA 70 kV	Fresno	Fresno	1.0056	1.0366	1.0348	1.0270	1.0111	System adjustments or voltage support if needed
CORCORAN 70 kV	Fresno	Fresno	1.0081	1.0454	1.0487	1.0234	1.0124	System adjustments or voltage support if needed
SHAFTER 115 kV	Kern	Kern	1.0271	1.0521	1.0543	1.0403	1.0375	System adjustments or voltage support if needed
MIDWAY 115 kV	Kern	Kern	1.0392	1.0553	1.0539	1.0519	1.0495	System adjustments or voltage support if needed
LAKEVIEW 70 kV	Kern	Kern	1.0199	1.0377	1.0428	1.0207	1.0201	System adjustments or voltage support if needed
WHEELER 70 kV	Kern	Kern	1.0272	1.0476	1.0490	1.0403	1.0316	System adjustments or voltage support if needed
TEJON 70 kV	Kern	Kern	1.0212	1.0372	1.0396	1.0291	1.0255	System adjustments or voltage support if needed
PANAMA 70 kV	Kern	Kern	1.0306	1.0401	1.0420	1.0337	1.0343	System adjustments or voltage support if needed
OLDRIVER1 70 kV	Kern	Kern	1.0359	1.0428	1.0444	1.0402	1.0383	System adjustments or voltage support if needed
GRANT 115 kV	Greater Bay area	Mission	1.0469	1.0601	1.0538	1.0415	1.0382	System adjustments or voltage support if needed
EASTSHRE 115 kV	Greater Bay area	Mission	1.0487	1.0618	1.0589	1.0456	1.0421	System adjustments or voltage support if needed
MT EDEN 115 kV	Greater Bay area	Mission	1.0475	1.0613	1.0590	1.0446	1.0408	System adjustments or voltage support if needed
MNTA VSA 60 kV	Greater Bay area	De Anza	1.0481	1.0574	1.0519	1.0523	1.0562	System adjustments or voltage support if needed
DIVIDE 70 kV	Los Padres	Los Padres	1.0353	1.0440	1.0499	1.0489	1.0397	System adjustments or voltage support if needed
SHEPHERD 115 kV	Fresno	Fresno	0.9909	1.0397	1.0533	1.0109	0.9983	System adjustments or voltage support if needed
AIRWAYS1 115 kV	Fresno	Fresno	0.9784	1.0214	1.0532	1.0048	0.9861	System adjustments or voltage support if needed
BARTON 115 kV	Fresno	Fresno	0.9739	1.0192	1.0551	1.0016	0.9823	System adjustments or voltage support if needed
HERNDON 115 kV	Fresno	Fresno	0.9713	1.0260	1.0538	0.9979	0.9816	System adjustments or voltage support if needed
PNEDLE 115 kV	Fresno	Fresno	0.9596	1.0198	1.0563	0.9840	0.9701	System adjustments or voltage support if needed
WOODWARD 115 kV	Fresno	Fresno	0.9816	1.0335	1.0541	1.0024	0.9898	System adjustments or voltage support if needed
BULLARD 115 kV	Fresno	Fresno	0.9593	1.0198	1.0565	0.9838	0.9698	System adjustments or voltage support if needed
KERMAN1 70 kV	Fresno	Fresno	1.0128	1.0257	1.0375	1.0090	1.0150	System adjustments or voltage support if needed
LEMOORE 70 kV	Fresno	Fresno	1.0177	1.0251	1.0369	1.0061	1.0238	System adjustments or voltage support if needed
CRESCENTSS 70 kV	Fresno	Fresno	1.0327	1.0303	1.0498	1.0302	1.0341	System adjustments or voltage support if needed
TUPMAN 115 kV	Kern	Kern	1.0273	1.0511	1.0530	1.0368	1.0377	System adjustments or voltage support if needed
DUMBARTN 115 kV	Greater Bay area	Mission	1.0478	1.0366	1.0557	1.0387	1.0415	System adjustments or voltage support if needed
NEWARK D 115 kV	Greater Bay area	Mission	1.0411	1.0434	1.0524	1.0380	1.0387	System adjustments or voltage support if needed
LAURELES 60 kV	Central Coast	Central Coast	0.9881	1.0119	1.1709	0.9900	0.9883	System adjustments or voltage support if needed
BELDEN 230 kV	North Valley	North Valley	1.0235	1.0380	1.0307	1.0642	1.0240	System adjustments or voltage support if needed
BCKS CRK 230 kV	North Valley	North Valley	1.0181	1.0373	1.0288	1.0679	1.0190	System adjustments or voltage support if needed
ROCKCK 1 230 kV	North Valley	North Valley	1.0228	1.0378	1.0310	1.0641	1.0234	System adjustments or voltage support if needed
CRESTA 230 kV	North Valley	North Valley	1.0167	1.0373	1.0285	1.0682	1.0176	System adjustments or voltage support if needed
RIO OSO 230 kV	Central Valley	Sierra	1.0090	1.0259	1.0381	1.0596	1.0113	System adjustments or voltage support if needed
PLSNT GR 115 kV	Central Valley	Sierra	1.0189	1.0355	1.0491	1.0575	1.0221	System adjustments or voltage support if needed
ATLANTIC 115 kV	Central Valley	Sierra	1.0207	1.0368	1.0518	1.0630	1.0236	System adjustments or voltage support if needed
CARQUINZ 115 kV	North Coast North Bay	North Bay	1.0169	1.0488	1.0392	1.0529	1.0143	System adjustments or voltage support if needed