

Submitted by Bob Sarvey 5-18-11

Oakley



FILED
02-10-11
01:46 PM

DOCKET

09-AFC-4

DATE May 18 2011

RECD. May 23 2011

Attachment 1

**Standardized Planning Assumptions (Part 1)
for System Resource Plans**

PG&E
Physical North of Path 26 (NP26) Capacity Need
Scenario: 33% Trajectory

Line	MW									
	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
SYSTEM AND SERVICE AREA LOAD FORECASTS:										
1 System 1-in-2 Peak Summer Demand	21,988	22,329	22,668	22,924	23,185	23,454	23,750	24,030	24,310	24,626
2 Total System Resources (Sum Lines 3, 9, 12 through 17)	33,132	34,866	35,764	35,271	34,812	35,199	32,564	32,604	32,645	32,686
SYSTEM RESOURCES:										
3 Existing Generation (Sum of Lines 4 through 7)	26,623	26,623	26,623	26,623	26,623	26,623	26,623	26,623	26,623	26,623
4 Existing Renewables (Excludes Hydro)	1,426	1,426	1,426	1,426	1,426	1,426	1,426	1,426	1,426	1,426
5 Existing Hydro (Includes RPS-eligible Hydro)	6,461	6,461	6,461	6,461	6,461	6,461	6,461	6,461	6,461	6,461
6 Existing CHP	1,888	1,888	1,888	1,888	1,888	1,888	1,888	1,888	1,888	1,888
7 Existing OTC	7,064	7,064	7,064	7,064	7,064	7,064	7,064	7,064	7,064	7,064
8 Other Generation	9,784	9,784	9,784	9,784	9,784	9,784	9,784	9,784	9,784	9,784
9 Retirements (Includes Lines 10 & 11)	(497)	(662)	(662)	(1,336)	(1,986)	(1,986)	(4,807)	(4,807)	(4,807)	(4,807)
10 OTC Retirements	341	341	341	1,015	1,665	1,665	3,804	3,804	3,804	3,804
11 Retirements	156	321	321	321	321	321	1,003	1,003	1,003	1,003
12 Known/High Probability Additions	878	1,733	1,733	1,733	1,733	1,733	1,733	1,733	1,733	1,733
13 Utility Probable Planned Additions	0	784	784	784	784	784	784	784	784	784
14 Other Planned Additions	0	145	973	973	973	973	973	973	973	973
15 RPS Additions (In Service Territory)	20	94	123	263	414	760	904	904	904	904
16 Additional CHP	41	82	123	164	204	245	286	327	368	409
17 Net Interchange (Sum of Lines 18 & 19)	6,067	6,067	6,067	6,067	6,067	6,067	6,067	6,067	6,067	6,067
18 Imports	6,067	6,067	6,067	6,067	6,067	6,067	6,067	6,067	6,067	6,067
19 Exports	0	0	0	0	0	0	0	0	0	0
20 Service Area Portion of System Resources (Line 2 * 92%)	30,481	32,077	32,903	32,450	32,027	32,383	29,959	29,996	30,034	30,071
SERVICE AREA SPECIFIC LINE ADJUSTMENTS:										
21 Service Area 1-in-2 Peak Summer Demand	20,193	20,510	20,829	21,071	21,318	21,572	21,851	22,117	22,383	22,683
22 Total Demand-Side Reductions	(1,492)	(1,836)	(2,178)	(2,496)	(2,839)	(3,237)	(3,657)	(4,090)	(4,501)	(4,898)
23 Incremental Uncommitted EE	98	128	388	620	871	1,180	1,511	1,857	2,184	2,496
24 Total DR	1,354	1,627	1,670	1,715	1,767	1,816	1,865	1,911	1,956	2,001
25 Incremental Demand-Side CHP	40	80	120	161	201	241	281	321	361	401
26 Residual Service Area Peak Demand (Line 21 minus Line 22)	18,701	18,675	18,651	18,576	18,480	18,335	18,194	18,028	17,881	17,786
SERVICE AREA RESERVES:										
27 Amount of Available Resources Exceeding Demand (Line 20 minus Line 26)	11,780	13,402	14,252	13,874	13,548	14,049	11,764	11,968	12,152	12,286
28 Percentage of Available Resources Exceeding Demand (Line 20 / Line 26)	163.0%	171.8%	176.4%	174.7%	173.3%	176.6%	164.7%	166.4%	168.0%	169.1%
1-in-2 SERVICE AREA SURPLUS (DEFICIT):										
29 Lower Bound of Planning Reserve Requirement (Line 26 * 15%)	21,506	21,476	21,448	21,362	21,251	21,085	20,923	20,732	20,564	20,453
30 Upper Bound of Planning Reserve Requirement (Line 26 * 17%)	21,880	21,849	21,821	21,734	21,621	21,452	21,287	21,092	20,921	20,809
31 Upper Bound 1-in-2 Service Area Surplus (Deficit)	8,975	10,601	11,455	11,088	10,776	11,299	9,035	9,264	9,470	9,618
32 Lower Bound 1-in-2 Service Area Surplus (Deficit)	8,601	10,227	11,082	10,716	10,406	10,932	8,671	8,904	9,112	9,262

Forecast Additions
 Source: <http://www.caiso.com/y27ca/27ca67800e50.xlsm>

Resource	Local Area/SubArea	MW LCR	Class	Proj COD / Retirement Year	Zone
CalRENEW-1(A) / Cal RENEW-1 LLC/Cal RENEW-1 LLC	NP26	5	3	2010	NP26
Copper Mountain Solar 1 Pseudo Tie	NP26	48	3	2010	NP26
PILOTE/ Dorado Energy LLC	Bay Area	2	3	2010	NP26
Vaca-Dixon Solar Station	Humboldt	163	3	2010	NP26
Humboldt 1-3	NP26	800	3	2011	NP26
Colusa	NP26	800	3	2012	NP26
Avenal Energy Center	NP26	255	3	2012	NP26
Load NCPA	NP26	1,733			
North High Probability / Known Additions					
Russell City	Bay Area	800	2	2012	NP26
Mariposa Peaker Project	Bay Area	184	1	2012	NP26
North Utility Probable Additions					
		784			
Trey	NP26	148	N/A	2012	NP26
Los Balam	Bay Area	108	N/A	2013	NP26
Marsh Landing	Bay Area	719	N/A	2013	NP26
North Other Planned Additions					
		973			
Blythe Solar 1 Project/FSE Blythe 1, LLC	SP26	21	3	2010	SP26
Celestus Gas To Energy Facility / LACSD/County Sanitation District No. 2 of Los Angeles County	LA Basin	14	3	2010	SP26
Chino RT Solar Project/Southern California Edison	LA Basin	2	3	2010	SP26
Chiquita Canyon Landfill / Ameresco	Big Creek-Venture	9	3	2010	SP26
Chiquita Energy, LLC/Ameresco	Big Creek-Venture	0	3	2010	SP26
Chiquita Energy, LLC	Big Creek-Venture	0	3	2010	SP26
Inland Empire Unit 2	LA Basin	2	3	2010	SP26
Rialto RT Solar/Southern California Edison	LA Basin	2	3	2010	SP26
Santa Cruz Landfill G-1&2 Facility/Santa Cruz Energy LLC	SP26	1	3	2010	SP26
Sierra Solar Generating Station/Sierra SunTower, LLC	SP26	9	3	2010	SP26
Rivada Energy Resources units 3 and 4	LA Basin	88	3	2011	SP26
Victorville Hybrid	SP26	583	3	2011	SP26
Canyon Power Plant	LA Basin	200	3	2012	SP26
El Segundo Repower	LA Basin	580	3	2013	SP26
FPL Blythe II	SP26	520	3	2013	SP26
South High Probability / Known Additions					
		1,997			
Walnut Creek Energy Center	LA Basin	800	2	2012	SP26
Delano 2	Big Creek-Venture	49	1	2015	SP26
Ocotillo	SP26	488	1	2015	SP26
Sentinel	SP26	850	1	2015	SP26
South Utility Probable Additions					
		1,854			
South Other Planned Additions					
		0			
Calentia I	San Diego	15	3	2010	SP26
Oaken-Hodges Pumped Storage - Unit 1/San Diego County Water Authority	San Diego	20	3	2011	SP26
Oaken-Hodges Pumped Storage - Unit 2/San Diego County Water Authority	San Diego	20	3	2011	SP26
Orange Grove/Power	San Diego	0	3	2011	SP26
San Diego High Probability / Known Additions					
		55			
Black Rock Geothermal	San Diego	159	1	2013	SP26
San Diego Utility Probable Additions					
		159			
San Diego Other Planned Additions					
		0			

High Probability / Known Additions

	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
North	878	1,733	1,733	1,733	1,733	1,733	1,733	1,733	1,733	1,733
South	717	1,997	1,997	1,997	1,997	1,997	1,997	1,997	1,997	1,997
San Diego	55	55	55	55	55	55	55	55	55	55

Utility Probable Additions

	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
North	0	784	784	784	784	784	784	784	784	784
South	0	800	800	800	1,854	1,854	1,854	1,854	1,854	1,854
San Diego	0	0	180	169	169	169	169	169	169	169

Other Planned Additions

	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
North	0	148	973	973	973	973	973	973	973	973
South	0	0	0	0	0	0	0	0	0	0
San Diego	0	0	0	0	0	0	0	0	0	0

Total Additions

	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
North	878	2,662	3,490	3,490	3,490	3,490	3,490	3,490	3,490	3,490
South	717	1,417	2,497	2,497	3,851	3,851	3,851	3,851	3,851	3,851
San Diego	55	55	214	214	214	214	214	214	214	214