

**CONFIDENTIAL**

**Energy Division Data Request**

**April 8, 2010**

Attn: Redacted  
Pacific Gas and Electric Company

**Subject: Energy Division Data Request Concerning Market Valuation Of Pending RPS Power Purchase Agreements**

Please respond to this data request by COB on April 15, 2010. Any questions related to the data request should be directed to Sean Simon at [svn@cpuc.ca.gov](mailto:svn@cpuc.ca.gov).

Table 1 below identifies the Resource Adequacy capacity (RA) value and net market value for 35 power purchase agreements (PPAs) as calculated and submitted by PG&E in recent advice letters<sup>1</sup>. Please provide the methodology and inputs used to calculate the (i) Net Qualifying Capacity and (ii) RA value as a \$/MWh, for each project. For both calculations PG&E must document and justify the methodology and inputs used.

To complete the data request, PG&E may either input the necessary data into the spreadsheet<sup>2</sup> attached to this email, or PG&E may submit the relevant work papers associated with each advice letter. Please include the annual \$/kw-yr price, throughout the contract term, used to calculate the \$/MWh RA value and document and justify the inputs for each year or range of years. In either case, PG&E's response should clearly identify and explain the methodology and inputs used to calculate the Net Qualifying Capacity and RA value as a \$/MWh, for each project.

---

<sup>1</sup> Specifically, in the least-cost, best-fit tables submitted in the advice letters (Appendix D) for each proposed PPA.

<sup>2</sup> See yellow highlighted columns in the "Pending RPS PPAs" tab and identify each input; add or delete columns as needed.

**CONFIDENTIAL**

**PG&E Pending RPS Contracts**

Advice Letter	Contracts Pending Approval	Min MW	RA Value (\$/MWh)	Net Market Value	Min Expected GWh/yr	Technology	Vintage	Contract Term (years)	Location
3481-E	NRG Alpine Suntower	92	37.79	(22.48)	192	solar thermal	new	20	Lancaster, CA
3525-E	Vantage Wind	90	33.03	(42.33)	277	wind	new	15	Kittitas County, WA
3538-E	NextLight Agua Caliente	290	40.00	(40.00)	688	solar pv	new	25	Yuma, AZ
3546-E	NextEra Genesis - Wet Cooled	250	55.84	(49.84)	560	solar thermal	new	25	Riverside, CA
3546-E	NextEra Genesis - Dry Cooled	250	33.61	(90.90)	560	solar thermal	new	25	Riverside, CA
3547-E	Abengoa Mojave Solar - Wet Cooled	250	52.68	(58.19)	617	solar thermal	new	25	San Bernardino County, CA
3547-E	Abengoa Mojave Solar - Dry Cooled	250	52.68	(64.22)	617	solar thermal	new	25	San Bernardino County, CA
3544-E	Geysers Power Company	250	16.2	(35.09)	2080	geothermal	existing	12	Sonoma and Lake Counties, CA
3577-E	DTE Energy Services - Stockton	45	20.97	(33.06)	315	biomass	existing	25	Port of Stockton, CA
3575-E	Big Creek Water Works	4.8	3.68	(26.09)	8	small hydro	existing	20	Hyampom, CA
3581-E	Solar Reserve Rice Solar	150	51.17	(32.14)	448	solar thermal	new	25	Rice, CA
3583-E	Shell Big Horn II	70	0	(24.97)	100	wind	new	1	Bickleton, WA
3583-E	Shell Combine Hills II	62	0	(27.15)	163	wind	new	2	Milton-Freewater, OR
3583-E	Shell Wheat Field	96.6	0	(38.02)	256	wind	new	2	Arlington, OR
3593-E	Powerex	various	0	(30.00)	330	multiple	existing	4.5	Various within WECC
3600-E	Barclays Hay Canyon Wind	100	0	(43.00)	250	wind	new	1.5	Moro, Sherman County, OR
3609-E	Shell White Creek #2	204.7	0	(40.42)	171	wind	new	2	Roosevelt, WA
3609-E	Shell Harvest Wind #1	98.9	0	(38.45)	73	wind	new	2	Roosevelt, WA
3609-E	Shell Harvest Wind #2	98.9	0	(33.33)	40	wind	new	1	Roosevelt, WA
3609-E	Shell White Creek #3	204.7	0	(38.30)	66	wind	new	2	Roosevelt, WA
3610-E	Eurus Sun City Project	20	0	(148.72)	34	solar pv	new	20	Kings County, CA
3610-E	Eurus Sand Drag	19	0	(148.76)	32	solar pv	new	20	Kings County, CA
3610-E	Eurus Avenal Park	9	0	(148.77)	15	solar pv	new	20	Kings County, CA
3613-E	SPS Atwell Island	20	0	(77.62)	43.2	solar pv	new	25	Tulare County, CA
3613-E	SPS White River	20	0	(76.91)	43.2	solar pv	new	25	Tulare County, CA
3613-E	SPS Corcoran	20	0	(71.02)	43.2	solar pv	new	25	Kings County, CA
3613-E	SPS Alpaugh North	20	0	(74.81)	43.2	solar pv	new	25	Tulare County, CA
3613-E	SPS Alpaugh	20	13.79	(74.59)	43.2	solar pv	new	25	Tulare County, CA
3620-E	Greengate Halkirk I	150	0	(38.20)	484	wind	new	20	Stettler, Alberta, Canada
3620-E	Greengate Blackspring Ridge IA	150	0	(36.00)	445	wind	new	20	Lethbridge, Alberta, Canada
3620-E	Greengate Blackspring Ridge IB	150	0	(36.00)	445	wind	new	20	Lethbridge, Alberta, Canada
3623-E	DTE Sunshine Canyon Landfill	20	17.34	(26.78)	140	biogas	new	20	Slymar, CA
3623-E	DTE Potrero Hills Landfill	8	18.23	(37.39)	56	biogas	new	25	Suisun City, CA
3629-E	First Solar Desert Sunlight	300	25.03	(60.86)	619	solar pv	new	25	Desert Center, CA
3632-E	Barclays Nine Canyon Wind Phase III	32.2	0	(43.00)	33	wind	new	2	Nine Canyon, Kennewick, WA