

**PACIFIC GAS AND ELECTRIC COMPANY
Renewable Portfolio Standards OIR_IV
Rulemaking 11-05-005
Data Response**

PG&E Data Request No.:	ED_001-01		
PG&E File Name:	RenewablePortfolioStdsOIR-IV_DR_ED_001-Q01		
Request Date:	July 16, 2012	Requester DR No.:	001
Date Sent:	July 31, 2012	Requesting Party:	Energy Division
PG&E Witness:	Redacted	Requester:	Michele Kito

SUBJECT: DATA REQUEST REGARDING RPS COST QUANTIFICATION TABLE

QUESTION 1

With respect to Table 2, please provide the kWh associated with each of the project categories (i.e., biogas, biomass, geothermal, small hydro, solar PV, solar thermal, wind, UOG Solar, and UOG small hydro) for the “CPUC-approved RPS-eligible contracts” for the years 2012 through 2017 as well as the kWh associated with these same project categories for the “Executed but not CPUC-approved RPS-eligible contracts ” for the years 2012 – 2017.

ANSWER 1

PG&E has provided the data requested by Energy Division on page 2 of this response.

Additionally, PG&E has provided on page 3 of this response a revised Table 2 that will be filed with PG&E’s update to its 2012 RPS Plan filed originally on May 23, 2012. The kWh on page 2 of this response should be compared with the costs on page 3 of this response. Please note that the revised Table 2 contains information that is confidential and protected under Appendix 1 of Decision 06-06-066.

PG&E has revised the cost forecast in Table 2 to reflect updated pricing for a group of Qualifying Facility (“QF”) biomass contracts that received price amendments. The pricing under these price amendments is now reflected in rows 3 and 17 of Table 2, with corresponding changes to total cost and incremental/total rate impact figures. Incorporation of the biomass QF price amendments into the cost forecast has a negligible effect on the rate impacts shown in Table 2.

Table Description – Forecast kWh by Resource Type

The table displays PG&E’s kWh forecast data associated with its cost forecast* that will be filed in PG&E’s update to its 2012 RPS Plan. (Joint IOU Cost Quantification Table 2 of Appendix 2)

		Forecasted Future RPS-Deliveries (kWh)					
1	Executed But Not CPUC-Approved RPS-Eligible Contracts	2012	2013	2014	2015	2016	2017
2	Biogas	0	0	0	0	0	0
3	Biomass	179,031,474	178,436,407	159,627,518	139,444,168	139,895,719	139,554,506
4	Geothermal	65,125,479	91,712,548	100,232,548	108,752,548	117,576,000	125,792,548
5	Small Hydro	0	0	0	0	0	0
6	Solar PV	0	0	0	0	0	0
7	Solar Thermal	0	0	0	29,408,995	448,934,257	447,999,284
8	Wind	0	0	0	0	0	0
9	UOG Small Hydro	0	0	0	0	0	0
10	UOG Solar	0	0	0	0	0	0
11	Unbundled RECs	275,000,011	274,999,998	274,999,998	99,999,997	0	0
12	Total Executed But Not CPUC-Approved RPS-Eligible Deliveries [Sum of Rows 2 through 11]	519,156,964	545,148,953	534,860,064	377,605,708	706,405,976	713,346,338
15	CPUC-Approved RPS-Eligible Contracts (Incl. RAM/FIT/PV Contracts)	2012	2013	2014	2015	2016	2017
16	Biogas	169,583,146	154,216,804	132,460,655	276,267,066	296,406,878	294,933,990
17	Biomass	3,169,334,628	3,366,466,398	3,393,963,326	3,139,806,224	3,027,487,249	2,477,657,322
18	Geothermal	3,625,721,759	3,689,292,226	3,688,670,676	3,687,704,235	3,694,311,523	3,683,557,469
19	Small Hydro	774,793,850	898,406,329	850,749,837	813,530,270	708,166,903	545,669,758
20	Solar PV	1,106,676,671	3,813,434,513	5,245,958,908	5,696,170,712	5,748,628,975	5,696,161,864
21	Solar Thermal	0	155,318,140	1,217,938,794	2,916,321,910	3,539,124,998	4,354,148,544
22	Wind	4,848,600,183	5,499,852,610	6,056,704,791	5,931,930,679	5,597,914,766	5,429,825,421
23	UOG Small Hydro	1,395,285,860	1,476,262,425	1,448,438,404	1,438,125,572	1,451,211,271	1,447,126,220
24	UOG Solar	190,698,049	235,902,039	344,499,966	452,555,902	540,352,881	536,436,867
25	Unbundled RECs	0	0	0	0	0	0
26	Total CPUC-Approved RPS-Eligible Deliveries [Sum of Rows 16 through 25]	15,280,694,145	19,289,151,483	22,379,385,356	24,352,412,572	24,603,605,444	24,465,517,454

* Energy reported in the UOG Small Hydro category (Row 23) was not used to calculate the forecasted cost of UOG Small Hydro. As described on page 80 of PG&E’s 2012 Renewable Energy Procurement Plan filed on May 23, 2012, the costs of UOG Small Hydro are a function of annualized capacity costs and an escalated annual O&M expense, not an energy forecast.

Joint IOU Cost Quantification Table 2 (Forecast Costs, \$ Thousands)

		Forecasted Future Expenditures on RPS-Eligible Procurement and Generation Costs								
1	Executed But Not CPUC-Approved RPS-Eligible Contracts	2012	2013	2014	2015	2016	2017	2018	2019	2020
2	Biogas	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
3	Biomass	Redacted								
4	Geothermal	Redacted								
5	Small Hydro	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
6	Solar PV	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
7	Solar Thermal	\$0	\$0	\$0	Redacted					
8	Wind	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
9	UOG Small Hydro	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
10	UOG Solar	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
11	Unbundled RECs ¹	Redacted				\$0	\$0	\$0	\$0	\$0
12	Total Executed But Not CPUC-Approved RPS-Eligible Procurement and Generation Cost <small>[Sum of Rows 2 through 11]</small>	\$32,734	\$35,611	\$33,285	\$30,470	\$109,121	\$110,161	\$110,028	\$110,241	\$103,674
13	Bundled Retail Sales <small>[Thousands of kWh]</small>	Redacted				77,356,033	77,774,983	78,247,068	78,703,900	79,423,331
14	Incremental Rate Impact*	Redacted								
15	CPUC-Approved RPS-Eligible Contracts (Incl. RAM/FIT/PV Contracts)	2012	2013	2014	2015	2016	2017	2018	2019	2020
16	Biogas	Redacted								
17	Biomass	Redacted								
18	Geothermal	Redacted								
19	Small Hydro	Redacted								
20	Solar PV	Redacted								
21	Solar Thermal	\$0	Redacted							
22	Wind	Redacted								
23	UOG Small Hydro	Redacted								
24	UOG Solar	Redacted								
25	Unbundled RECs ¹	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
26	Total CPUC-Approved RPS-Eligible Procurement and Generation Cost <small>[Sum of Rows 16 through 25]</small>	Redacted								
27	Bundled Retail Sales <small>[Thousands of kWh]</small>	Redacted				77,356,033	77,774,983	78,247,068	78,703,900	79,423,331
28	Incremental Rate Impact*	Redacted								
29	Total Incremental Rate Impact <small>[Row 14 + 28; Rounding can cause Row 29 to differ from Row 14 + 28]</small>	Redacted								

* Incremental Rate Impact is equal to a Total Cost (either Row 12 or 26) divided by Bundled Retail Sales (either Row 13 or 27). While the item is labeled "Incremental Rate Impact", the value should be interpreted as an estimate of a system average bundled rate for RPS-eligible procurement and generation, not a renewable "premium". In other words, the amount shown captures the total cost of the renewable generation and not the additional cost incurred by receiving renewable energy instead of an equivalent amount of energy from conventional generation sources.

PACIFIC GAS AND ELECTRIC COMPANY
Renewable Portfolio Standards OIR_IV
Rulemaking 11-05-005
Data Response
July 31, 2012

IDENTIFICATION OF CONFIDENTIAL INFORMATION PER DECISION 06-06-066

Redaction Reference	1) The material submitted constitutes a particular type of data listed in the Matrix, appended as Appendix 1 to D.06-06-066 and Appendix C to D.08-04-023 (Y/N)	2) Which category or categories in the Matrix the data correspond to:	3) That it is complying with the limitations on confidentiality specified in the Matrix for that type of data (Y/N)	4) That the information is not already public (Y/N)	5) The data cannot be aggregated, redacted, summarized, masked or otherwise protected in a way that allows partial disclosure (Y/N)	PG&E's Justification for Confidential Treatment	Length of Time
Document: July 31, 2012 Data Response to Energy Division Data Request in R.11-05-005							
Page 3, Joint IOU Cost Quantification Table 2 Row 13, years 2012-2015; Row 27, years 2012-2015	Yes	Item V(C): LSE Total Energy Forecast Bundled Customer (MWh)	Yes	Yes	Yes	Front three years of PG&E's internal and proprietary forecast of its bundled customer total energy requirements. Linked cells whose values could reveal this confidential data are also redacted.	Front three years.
Page 3, Joint IOU Cost Quantification Table 2 Row 3, years 2012-2020; Row 4, years 2012-2020; Row 7, years 2015-2020; Row 11, years 2012-2015; Row 12, years 2012-2020; Row 14, years 2012-2020; Rows 16-20, years 2012-2020; Row 21, years 2013-2020; Rows 22-24, years 2012-2020; Row 26, years 2012-2020; Rows 28-29, years 2012-2020	Yes	Items II(B)(3) and II(B)(4): Generation Cost Forecasts of QF Contracts and Non-QF bilateral contracts	Yes	Yes	Yes	The gray-shaded information indicates the generation cost forecasts of QF contracts and non-QF bilateral contracts.	Items II(B)(3) and (4): Confidential for three years. Public by resource category (e.g., fossil, wind, solar, hydro-electric, etc.) after three years.