STATE OF CALIFORNIA Edmund G. Brown Jr., *Governor*

PUBLIC UTILITIES COMMISSION
505 VAN NESS AVENUE
SAN FRANCISCO, CA 94102-3298

REVISED

November 21, 2013

Advice Letter 4296-E

Brian K. Cherry
Vice President, Regulation and Rates
Pacific Gas and Electric Company
77 Beale Street, Mail Code B10C
P.O. Box 770000
San Francisco, CA 94177

Subject: Submission of Data Necessary to Calculate the Market Price Benchmark for 2014 in Compliance With Resolution E-4475

Dear Mr. Cherry:

Advice Letter 4296-E is effective October 1, 2013.

Sincerely,

Edward Randolph

Edward F. Randolph, Director
Energy Division

Pacific Gas and Electric Company

Brian K. Cherry
Vice President
Regulatory Relations

Pacific Gas and Electric Company
77 Beale St., Mail Code B10C
P.O. Box 770000
San Francisco, CA 94177

Fax: 415-973-7226

October 1, 2013

Advice 4296-E
(Pacific Gas and Electric Company ID U 39 E)

Public Utilities Commission of the State of California

Subject: **Submission of Data Necessary to Calculate the Market Price Benchmark for 2014 in Compliance With Resolution E-4475**

Purpose

In compliance with Ordering Paragraph (OP) 4, of California Public Utilities Commission's (CPUC or Commission) Resolution E-4475, Pacific Gas and Electric Company (PG&E) is submitting data necessary to calculate the market price benchmark (MPB) for 2014, in accordance with that resolution. In addition, the value of the capacity PG&E plans to include in the benchmark calculation is discussed.

Background

Resolution E-4475, Ordering Paragraph 4, required that by October 1 of each year, PG&E, San Diego Gas & Electric Company (SDG&E), and Southern California Edison Company (SCE), shall file Tier 1 advice letters to update the data specified in Ordering Paragraph 4 of Decision 11-12-018 so that the applicable percentage weightings (32% for Department of Energy (DOE) data and 68% for utility data) are updated in subsequent years.

Ordering Paragraph 4 of D.11-12-018 requires PG&E, SDG&E, and SCE to identify the data necessary to revise the Power Charge Indifference Amount (PCIA), Ongoing Competition Transition Charge (CTC), and Transitional Bundled Service (TBS) tariffs. Specifically, the information to be provided includes:

a. most recent 12-month figures derived from US Department of Energy survey of Western US renewable energy premiums in calculating a weighted proxy for the Market Price Benchmark compiled by the National Renewable Energy Laboratory; and

b. all RPS-compliant resources that are used to serve Investor Owned-Utility (IOU) customers during the current year (i.e.,

> most recent 12 months) and those projected to serve customers during the next year, including both contracts and IOU-owned resources, including the projected costs together with the net qualifying capacity of energy produced by each of these resources (providing relevant costs in dollars and volumes in MWh and qualifying capacity in kW).

From this information, the Commission will then adopt an RPS adder to be used to determine a Market Price Benchmark (MPB). The RPS adder proxy value will be based on a 32% weighting of the Department of Energy (DOE) data in relation to a 68% weighting of the investor-owned utility (IOU) cost data and will reflect renewable resources in the calculation of the PCIA and ongoing CTC.

The average cost of power from the IOU RPS resources will be determined by summing up all the costs from all three IOUs, subtracting the product of the net qualifying capacity of those resources times the IOU's current resource adequacy capacity adder used in the MPB, and dividing by the sum of all the MWhs from all three IOUs.

Appendix A provides the most recent data from the DOE survey of Western US renewable energy premiums. Confidential Appendix B provides all RPS-compliant resources that began serving customers in 2013 or are forecast to begin serving customers in 2014. Energy Division will combine this data with SDG&E and SCE's data and will provide a renewable adder for 2014. This adder will be used to update the 2014 forecast PCIA and Ongoing CTC in PG&E's November Update of the 2014 ERRA Forecast.

Resource Adequacy Capacity Value

D.11-12-018 agreed that it is reasonable to provide a means for updating the Resource Adequacy (RA) capacity value included in the MPB and adopted SCE's proposal to update the RA capacity adder using the Net Qualifying Capacity of the utility electric supply portfolio and the most recent California Energy Commission (CEC) estimate of the going forward costs of a combustion turbine.[1] Based on the CEC's most recent estimate, the RA capacity value to be included in the MPB would be $50.17/kW-yr. This estimate is based on data from Table B-4 of the 2009 Final CEC Cost of Generation Report and is the summation of three components: (1) Insurance ($9.63), (2) Ad Valorem ($13.09) and (3) Fixed Operations & Maintenance (O&M) ($27.45).[2]

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[1] D.11-12-018 at p. 115.

[2] See: http://www.energy.ca.gov/2009publications/CEC-200-2009-017/CEC-200-2009-017-SF.PDF

Protests

Anyone wishing to protest this filing may do so by letter sent via U.S. mail, by facsimile or electronically, any of which must be received no later than October 21, 2013, which is twenty (20) days after the date of this filing. Protests should be mailed to:

CPUC Energy Division
ED Tariff Unit
505 Van Ness Avenue, 4th Floor
San Francisco, California 94102

Facsimile: (415) 703-2200
E-mail: EDTariffUnit@cpuc.ca.gov

Copies of protests also should be mailed to the attention of the Director, Energy Division, Room 4004, at the address shown above.

The protest also should be sent via U.S. mail (and by facsimile and electronically, if possible) to PG&E at the address shown below on the same date it is mailed or delivered to the Commission:

Brian K. Cherry
Vice President, Regulatory Relations
Pacific Gas and Electric Company
77 Beale Street, Mail Code B10C
P.O. Box 770000
San Francisco, California 94177

Facsimile: (415) 973-7226
E-mail: PGETariffs@pge.com

Any person (including individuals, groups, or organizations) may protest or respond to an advice letter (General Order 96-B, Section 7.4). The protest shall contain the following information: specification of the advice letter protested; grounds for the protest; supporting factual information or legal argument; name, telephone number, postal address, and (where appropriate) e-mail address of the protestant; and statement that the protest was sent to the utility no later than the day on which the protest was submitted to the reviewing Industry Division (General Order 96-B, Section 3.11).

Effective Date

PG&E requests that this advice filing become effective on **October 1, 2013**. Ordering Paragraph 4 of Resolution E-4475 requires that this Advice Letter be classified as Tier 1 pursuant to GO 96-B.

Notice

In accordance with General Order 96-B, Section IV, a copy of this advice letter is being sent electronically and via U.S. mail to parties shown on the attached list and the parties on the service lists for R.07-05-025 and A.13-05-015. Address changes to the General Order 96-B service list should be directed to PG&E at email address PGETariffs@pge.com. For changes to any other service list, please contact the Commission's Process Office at (415) 703-2021 or at Process_Office@cpuc.ca.gov. Send all electronic approvals to PGETariffs@pge.com. Advice letter filings can also be accessed electronically at: http://www.pge.com/tariffs

Brian Cherry /IG

Vice President – Regulatory Relations

cc: Service List R.07-05-025
Service List A.13-05-015

Attachments

Public Attachments:
Appendix A: Department of Energy Renewable Data
Appendix B1: Renewable Resources Online in 2013 and 2014 (Public)

Confidential Attachment:
Appendix B: Renewable Resources Online in 2013 and 2014

CALIFORNIA PUBLIC UTILITIES COMMISSION

ADVICE LETTER FILING SUMMARY
ENERGY UTILITY

MUST BE COMPLETED BY UTILITY (Attach additional pages as needed)

Company name/CPUC Utility No. **Pacific Gas and Electric Company (ID U39 E)**

Utility type:	Contact Person: Igor Grinberg
☑ ELC ☐ GAS	Phone #: (415) 973-8580
☐ PLC ☐ HEAT ☐ WATER	E-mail: ixg8@pge.com and PGETariffs@pge.com

EXPLANATION OF UTILITY TYPE

ELC = Electric GAS = Gas
PLC = Pipeline HEAT = Heat WATER = Water

(Date Filed/ Received Stamp by CPUC)

Advice Letter (AL) #: **4296-E** **Tier: 1**

Subject of AL: **Submission Of Data Necessary To Calculate the Market Price Benchmark for 2014 in Compliance With Resolution E-4475**

Keywords (choose from CPUC listing): Compliance

AL filing type: ☐ Monthly ☐ Quarterly ☐ Annual ☑ One-Time ☐ Other _____

If AL filed in compliance with a Commission order, indicate relevant Decision/Resolution #: N/A

Does AL replace a withdrawn or rejected AL? If so, identify the prior AL: No

Summarize differences between the AL and the prior withdrawn or rejected AL: _____

Is AL requesting confidential treatment? If so, what information is the utility seeking confidential treatment for: No

Confidential information will be made available to those who have executed a nondisclosure agreement: N/A

Name(s) and contact information of the person(s) who will provide the nondisclosure agreement and access to the confidential information: _____

Resolution Required? ☐ Yes ☑ No

Requested effective date: **October 1, 2013** No. of tariff sheets: N/A

Estimated system annual revenue effect (%): N/A

Estimated system average rate effect (%): N/A

When rates are affected by AL, include attachment in AL showing average rate effects on customer classes (residential, small commercial, large C/I, agricultural, lighting).

Tariff schedules affected: N/A

Service affected and changes proposed: N/A

Pending advice letters that revise the same tariff sheets: N/A

Protests, dispositions, and all other correspondence regarding this AL are due no later than 20 days after the date of this filing, unless otherwise authorized by the Commission, and shall be sent to:

CPUC, Energy Division
ED Tariff Unit
505 Van Ness Avenue, 4th Floor
San Francisco, CA 94102
E-mail: EDTariffUnit@cpuc.ca.gov

Pacific Gas and Electric Company
Attn: Brian Cherry
Vice President, Regulatory Relations
77 Beale Street, Mail Code B10C
P.O. Box 770000
San Francisco, CA 94177
E-mail: PGETariffs@pge.com

DECLARATION OF DONNA L. BARRY IN SUPPORT OF ADVICE 4296-E, APPENDIX B

I, Donna L. Barry, declare:

1. I am presently employed by Pacific Gas and Electric Company (PG&E) and am a regulatory principal in the electric proceedings section, in the Energy Proceedings Department at Pacific Gas and Electric Company (PG&E). In this position, I am responsible for electric procurement cost recovery and reporting requirements at PG&E. In carrying out these responsibilities, I have acquired knowledge of the transactions types purchased for the portfolio and recorded to the ERRA and am familiar the generation costs that are included in the various exit fees, applicable to non-exempt departing load.
2. Based on my knowledge and experience, and in accordance with the "Administrative Law Judge's Ruling Clarifying Interim Procedures For Complying With Decision 06-06-066," issued in Rulemaking 05-06-040 on August 22, 2006, I make this declaration seeking confidential treatment for the data provided in Appendix B. The data reflects renewable cost, energy, and capacity values for certain renewable contracts which are forecasted to be delivering in 2014.
3. Attached to this declaration is a matrix identifying the data and information for which PG&E is seeking confidential treatment. The matrix specifies that the material PG&E is seeking to protect constitutes the particular type of data and information listed in Appendix 1 (the "IOU Matrix") of Decision 06-06-066. The matrix also specifies the category or categories in the IOU Matrix to which the data and information corresponds, and why confidential protection is justified. Finally, the matrix specifies that: (1) PG&E is complying with the limitations specified in the IOU Matrix for that type of data or information; (2) the information is not already public; and (3) the data cannot be aggregated, redacted, summarized or otherwise protected in a way that allows partial

disclosure. By this reference, I am incorporating into this declaration all of the explanatory text that is pertinent Advice 4296-E, Appendix B, in the attached matrix.

I declare under penalty of perjury, under the laws of the State of California, that the foregoing is true and correct. Executed on October 1, 2013, at San Francisco, California.

/s/

DONNA L. BARRY

PACIFIC GAS AND ELECTRIC COMPANY'S (U 39 E)
Advice Letter 4296-E
Appendix B
October 1, 2013

IDENTIFICATION OF CONFIDENTIAL INFORMATION

Redaction Reference	1) Constitutes data listed in Appendix 1 to D.06-06-066 (Y/N)	2) Data correspond to category in Appendix 1:	3) Complies with limitations of D.06-06-066 (Y/N)	4) Data not already public (Y/N)	5) Lead to partial disclosure (Y/N)	PG&E's Justification for Confidential Treatment	Length of Time
Appendix B, Cost, All lines	Y	Item II.B.4	Y	N	N	Non-QF Bilateral Contract Costs	3 years
Appendix B, MWh, All lines	Y	Item IV.G	Y	N	N	Post-2003 Bilateral Contract Generation	3 years

Pacific Gas And Electric
Advice 4296-E pursuant to Resolution E-4475
October 1, 2013

Appendix A
Western States
Utility Green Pricing Programs

State-Specific Utility Green Pricing Programs (http://apps3.eere.energy.gov/greenpower/markets/pricing.shtml?page=1) Western US Only
Western US Only

State-Specific Utility Green Pricing Programs (last updated May 2012)						
State	**Utility Information**	**Enrollment Information**	**Type**	**Start Date**	**Premium**	**Premium (cents/kWh)**
AZ	Arizona Public Service	Green Choice	wind and geothermal	2007	0.4¢/kWh	0.40
AZ	Salt River Project	EarthWise Energy	central PV, wind, landfill gas, small hydro, geothermal	1998/2001	3.0¢/kWh	3.00
AZ	Tri-State Generation & Transmission: Columbus Electric Cooperative, Inc.	Renewable Resource Power S	wind, hydro	2001	0.8¢/kWh	0.80
AZ	Tucson Electric	Bright Tucson Community Sol	local PV	2010	2.0¢/kWh	2.00
AZ	UniSource Energy Services	Bright Tucson Community Sol	local PV	2004	2.0¢/kWh	2.00
CA	Alameda Municipal Power	Alameda Green	wind, solar	2012	1.5¢/kWh	1.50
CA	Anaheim Public Utilities	Sun Power for the Schools	PV	2002	Contribution	
CA	Anaheim Public Utilities	Green Power for the Grid	various renewables	2002	2.0¢/kWh	2.00
CA	Los Angeles Department of Water and Power	Green Power for a Green LA	wind, landfill gas	1999	3.0¢/kWh	3.00
CA	Marin Energy Authority: City of Belvedere, Town of Fairfax, County of Marin, City o	Light Green	25% renewable	2008	0.0¢/kWh	-
CA	Marin Energy Authority: City of Belvedere, Town of Fairfax, County of Marin, City o	Deep Green	100% renewable	2010	1.0¢/kWh	1.00
CA	PacifiCorp: Pacific Power	Blue Sky Block	wind	2000	1.95¢/kWh	1.95
CA	Palo Alto Utilities / 3Degrees	Palo Alto Green	wind, PV	2003 / 2000	1.5¢/kWh	1.50
CA	Pasadena Water & Power	Green Power	wind	2003	2.5¢/kWh	2.50
CA	Roseville Electric	Green Roseville	wind, PV	2005	1.5¢/kWh	1.50
CA	Sacramento Municipal Utility District	SolarShares	PV	2007	5.0¢kWh or $30/month	5.00
CA	Sacramento Municipal Utility District	Greenergy	wind, landfill gas, hydro, PV	1997	1.0¢/kWh or $6/month	1.00
CA	Silicon Valley Power / 3Degrees	Santa Clara Green Power	wind, PV	2004	1.5¢/kWh	1.50
CA	Truckee Donner PUD	Voluntary Renewable Energy	wind	2008	2.0¢/kWh	2.00
CO	Colorado Springs Utilities	Renewable Energy Certificate	wind and geothermal	2008	0.34¢/kWh	0.34
CO	Colorado Springs Utilities	Green Power	wind	1999	3.0¢/kWh	3.00
CO	Holy Cross Energy	Wind Power Pioneers	wind	1998	1.25¢/kWh	1.25
CO	Holy Cross Energy	Local Renewable Energy Poo	small hydro, PV	2002	2.33¢/kWh	2.33
CO	Platte River Power Authority: Estes Park, Fort Collins Utilities, Longmont Power &	Nature's Energy	wind	1999	1.0¢/kWh-2.5¢/kWh	1.75
CO	Tri-State Generation & Transmission : Delta-Montrose Electric Association, Empire	Renewable Resource Power S	wind, hydro	1998	0.8¢/kWh	0.80
CO	Xcel Energy	Renewable Energy Trust	PV	1993	Contribution	
CO	Xcel Energy	WindSource	wind	1997	2.16¢/kWh	2.16
CO	Yampa Valley Electric Association	Wind Energy Program	wind	1999	0.6¢/kWh	0.60
ID	Avista Utilities	Buck-A-Block	wind	2002	0.33¢/kWh	0.33
ID	Idaho Power	Green Power Program	various	2001	1.067¢/kWh	1.07
ID	PacifiCorp: Rocky Mountain Power	Blue Sky	wind	2003	0.71¢/kWh-1.94¢/kWh	1.33
ID	Vigilante Electric Cooperative	Alternative Renewable Energy	wind	2003	1.1¢/kWh	1.10
MT	Basin Electric Power Cooperative: Flathead Electric Coop, Lower Yellowstone, Pov	Prairie Winds	wind	2000	0.5¢/kWh	0.50
MT	Northwestern Energy	E+ Green	wind, PV	2003	2.0¢/kWh	2.00
MT	Park Electric Cooperative	Green Power Program	various renewables	2002	1.02¢/kWh	1.02
MT	Tri-State Generation & Transmission: Big Horn Rural Electric Company	Renewable Resource Power S	wind, hydro	2001	0.8¢/kWh	0.80
MT	Vigilante Electric Cooperative	Alternative Renewable Energy	wind	2003	1.1¢/kWh	1.10
NV	Deseret Power: Mt. Wheeler Power Cooperative	GreenWay	various	2005	1.95¢/kWh	1.95
NV	NV Energy	Desert Research Institute's Gr	PV on schools	Unknown	Contribution	
NM	El Paso Electric	Renewable Energy Tariff	wind	2003	2.28¢/kWh	2.28
NM	Los Alamos Department of Public Utilities	Green Power	wind	2005	1.8¢/kWh	1.80
NM	Navopache Electric Cooperative	Voluntary Renewable Energy	TBD	2008	4.0¢/kWh	4.00
NM	Public Service of New Mexico	PNM Sky Blue	wind	2003	0.042¢/kWh	0.04
NM	Tri-State Generation & Transmission: Central New Mexico Electric Cooperative, In	Renewable Resource Power S	wind, hydro	2001	0.4¢/kWh-2.5¢/kWh	1.45
NM	Xcel Energy	WindSource	wind	1999	4.61¢/kWh	4.61
OR	City of Ashland / Bonneville Environmental Foundation	Renewable Pioneers	PV, wind	2003	2.0¢/kWh	2.00
OR	Columbia River PUD	Choice Energy	wind	2005	1.5¢/kWh	1.50
OR	Emerald People's Utility District/Green Mountain Energy	Choose Renewable Electricity	wind, geothermal	2003	1.2¢/kWh	1.20
OR	Eugene Water & Electric Board	EWEB Wind Power	wind	1999	0.91¢/kWh	0.91
OR	Eugene Water & Electric Board	EWEB Greenpower	various renewables	2007	1.0¢/kWh-1.5¢/kWh	1.25
OR	Idaho Power	Green Power Program	various	2001	1.067¢/kWh	1.07
OR	Midstate Electric Cooperative	Environmentally-Preferred Po	wind	1999	2.5¢/kWh	2.50
OR	Oregon Trail Electric Cooperative	Green Power	wind	2002	1.5¢/kWh	1.50
OR	PacifiCorp: Pacific Power	Blue Sky Block	wind	2000	1.95¢/kWh	1.95
OR	PacifiCorp: Pacific Power	Blue Sky QS (Commercial On	wind	2004	Sliding scale depending on size	
OR	PacifiCorp: Pacific Power / 3Degrees	Blue Sky Usage	wind, biomass, PV	2002	1.2¢/kWh	1.20

Appendix A
Western States
Utility Green Pricing Programs

State-Specific Utility Green Pricing Programs (http://apps3.eere.energy.gov/greenpower/markets/pricing.shtml?page=1) Western US Only
Western US Only

State-Specific Utility Green Pricing Programs
(last updated May 2012)

State	Utility Information	Enrollment Information	Type	Start Date	Premium	Premium (cents/kWh)
OR	Pacific Northwest Generating Cooperative: Blachly-Lane Electric Cooperative, Central Electric Cooperative, Clearwater Power, Consumers Power, Coos-Curry Electric Cooperative, Douglas Electric Cooperative, Fall River Rural Electric Cooperative, Lost River Electric Cooperative, Raft River Rural Electric Cooperative, Umatilla Electric Cooperative, West Oregon Electric Cooperative, (11 of 15 coops offer program)	Green Power	landfill gas	1998	1.8¢/kWh-2.0¢/kWh	1.90
OR	Portland General Electric Company	Clean Wind Power	wind	2002	1.75¢/kWh	1.75
OR	Portland General Electric Company	Clean Wind for Medium to La	wind	2002	price depends on level of support	
OR	Portland General Electric Company / Green Mountain Energy	Green Source	wind, landfill gas, low-impact hydro	2002	1.2¢/kWh	1.20
OR	Springfield Utility Board	ECOchoice	various	2007	1.0¢/kWh	1.00
UT	City of St. George	Clean Green Power	wind, small hydro	2005	2.95¢/kWh	2.95
UT	Deseret Power	GreenWay	various	2004	1.95¢/kWh	1.95
UT	PacifiCorp: Rocky Mountain Power	Blue Sky	wind	2003	0.71¢/kWh-1.94¢/kWh	1.33
UT	PacifiCorp: Utah Power	Blue Sky	wind	2000	1.95¢/kWh	1.95
UT	Tri-State Generation & Transmission: Empire Electric Association, Inc.	Renewable Resource Power S	wind, hydro	2001	0.8¢/kWh	0.80
WA	Avista Utilities	Buck-A-Block	wind	2002	0.33¢/kWh	0.33
WA	Benton County Public Utility District	Green Power Program	landfill gas, wind, hydro	1999	Contribution	
WA	Chelan County PUD	Sustainable Natural Alternativ	PV, wind, micro hydro	2001	Contribution	
WA	Clallam County PUD	Clallam County PUD Green P	landfill gas	2001	0.69¢/kWh	0.69
WA	Clark Public Utilities	Green Lights	PV, wind	2002	1.5¢/kWh	1.50
WA	Cowlitz PUD	Renewable Resource Energy	wind, PV	2002	2.0¢/kWh	2.00
WA	Grant County PUD	Alternative Energy Resources	wind	2002	2.0¢/kWh	2.00
WA	Grays Harbor PUD	Green Power	wind	2002	3.0¢/kWh	3.00
WA	Lewis County PUD	Green Power Energy Rate	wind	2003	2.0¢/kWh	2.00
WA	Mason County PUD No. 3	Mason Evergreen Power	wind	2003	1.0¢/kWh	1.00
WA	Northen Wasco County PUD	Pure Power	wind	2007	2.5¢/kWh	2.50
WA	Orcas Power & Light	Go Green	wind, hydro	1999	3.5¢/kWh	3.50
WA	Pacific County PUD	Green Power	landfill gas	2002	1.05¢/kWh	1.05
WA	Pacificorp: Pacific Power	Blue Sky Block	wind	2000	1.95¢/kWh	1.95
WA	Peninsula Light	Green by Choice	wind, hydro, biogas	2002	2.0¢/kWh	2.00
WA	Puget Sound Energy	Green Power Program	wind, PV, biogas	2002	1.25¢/kWh	1.25
WA	Seattle City Light	Seattle Green Power	PV, biogas	2002	Contribution	
WA	Seattle City Light	Green Up	wind	2005	1.5¢/kWh	1.50
WA	Snohomish County Public Utility District	Planet Power	wind	2002	2.0¢/kWh	2.00
WA	Tacoma Power	EverGreen Options	wind	2000	1.2¢/kWh	1.20
WY	Basin Electric Power Cooperative: Powder River Energy	Prairie Winds	wind	2000	0.5¢/kWh	0.50
WY	Cheyenne Light, Fuel and Power Company/Bonneville Environmental Foundation	Renewable Premium Program	99% new wind, 1% new solar	2006	3.5¢/kWh	3.50
WY	Lower Valley Energy	Green Power	wind	2003	1.167¢/kWh	1.17
WY	Pacificorp: Pacific Power	Blue Sky	wind	2000	1.95¢/kWh	1.95
WY	Tri-State Generation & Transmission: Carbon Power & Light, Inc.	Renewable Resource Power S	wind, hydro	2001	0.8¢/kWh	0.80
WY	Yampa Valley Electric Association	Wind Energy Program	wind	1999	0.6¢/kWh	0.60
					Average Cents / kWh	1.645
					Average $ / MWh	16.45

Pacific Gas and Electric
Advice 4296-E pursuant to Resolution E-4475
October 1, 2013

APPENDIX B1

							Net Qualifying Capacity (MW)											
Vintage	LogNumber	Name	Technology	Start Date	2014 MWh	2014 Cost	Jan-14	Feb-14	Mar-14	Apr-14	May-14	Jun-14	Jul-14	Aug-14	Sep-14	Oct-14	Nov-14	Dec-14
2008	33R056	Topaz Solar Farms	SOLAR PV	2/22/2013			0.703	13.228	19.734	143.969	192.644	253.053	266.121	274.420	266.721	119.350	4.062	3.025
2009	33R073	AV Solar Ranch One	SOLAR PV	4/1/2013			0.483	9.089	12.624	86.408	106.425	139.798	138.000	133.744	122.003	54.593	1.782	1.259
2009	33R099	DTE Stockton POSDEF	BIOMASS	11/1/2013			30.600	30.600	30.600	30.600	30.600	30.600	30.600	30.600	30.600	30.600	30.600	30.600
2009	33R090	Genesis	Solar Thermal	11/1/2013			0.337	6.339	8.804	60.266	148.455	195.008	192.500	186.563	171.041	76.536	2.498	1.764
2009	33R063	Ivanpah Unit 1	Solar Thermal	10/26/2013			0.318	5.984	8.311	56.891	70.071	92.044	90.860	88.058	80.731	36.125	1.179	0.833
2009	33R064	Ivanpah Unit 3	Solar Thermal	12/8/2013			0.350	6.593	9.157	62.677	77.196	101.404	100.100	97.013	88.941	39.798	1.299	0.918
2009	33R089-AR	Mojave Solar	Solar Thermal	7/7/2014			0.000	0.000	0.000	0.000	0.000	0.000	192.500	186.563	171.041	76.536	2.498	1.764
2010	33R118	Alpaugh 50	SOLAR PV	3/8/2013			1.240	3.670	23.930	30.970	36.090	46.770	45.660	44.640	38.760	23.930	3.670	1.240
2010	33R119	Alpaugh North	SOLAR PV	3/8/2013			0.042	0.790	1.098	7.450	9.176	12.053	11.898	11.531	10.572	4.730	0.154	0.109
2010	33R120	Atwell Island	SOLAR PV	3/8/2013			0.042	0.790	1.098	7.450	9.176	12.053	11.898	11.531	10.572	4.730	0.154	0.109
2010	33R136	Blackspring Ridge 1A	WIND	6/24/2014			0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2010	33R137	Blackspring Ridge 1B	WIND	6/24/2014			0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2010	33R121	Corcoran	SOLAR PV	8/14/2013			0.042	0.790	1.098	7.514	9.254	12.156	12.000	11.630	10.662	4.771	0.154	0.109
2010	33R138	Desert Center Solar Farm	SOLAR PV	12/15/2013			0.405	7.627	10.593	72.507	100.872	132.504	146.400	151.770	148.739	71.566	2.336	1.650
2010	33R078	NRG Solar Alpine	SOLAR PV	1/11/2013			1.640	4.850	10.700	40.880	47.640	61.740	60.270	58.920	51.170	31.590	4.850	1.640
2010	33R132	Sunshine Landfill	LANDFILL GAS	2/1/2014			0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2010	33R122	White River	SOLAR PV	6/27/2013			0.042	0.790	1.098	7.514	9.254	12.156	12.000	11.531	10.572	4.730	0.154	0.109
2011	33R184AB	Bear Creek Solar Project	SOLAR PV	3/3/2014			0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2011	33R170AB	Central Valley Ag Power	BIOMASS	2/17/2014			0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2011	33R237AB	Cloverdale Solar FSEC 1	SOLAR PV	12/23/2013			0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2011	33R238AB	Cloverdale Solar FSEC 2	SOLAR PV	12/23/2013			0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2011	33R234AB	Concord Smart Energy Park	SOLAR PV	4/27/2013			0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2011	33R156AB	Fresh Air Energy I LLC - Pioneer 1	SOLAR PV	4/25/2013			0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2011	33R165AB	Fresh Air Energy III LLC - Sonora 1	SOLAR PV	1/15/2014			0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2011	33R162	FRV Orion Solar - PV PPA 1	SOLAR PV	2/14/2014			0.025	0.474	0.659	4.508	5.553	7.294	7.200	6.978	6.397	2.863	0.093	0.066
2011	33R235AB	Gustine-Pires Facility	DIGESTER GAS	2/13/2014			0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2011	33R236AB	Gustine-Xavior Facility	DIGESTER GAS	2/13/2014			0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2011	33R206AB	Ignite Solar Achomawi	SOLAR PV	3/26/2014			0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2011	33R207AB	Ignite Solar Ahjumawi	SOLAR PV	3/26/2014			0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2011	33R232AB	Kettleman Solar	SOLAR PV	4/11/2014			0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2011	33R214AB	Kingsburg 1	SOLAR PV	4/11/2014			0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2011	33R215AB	Kingsburg 2	SOLAR PV	4/11/2014			0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2011	33R216AB	Kingsburg 3	SOLAR PV	4/11/2014			0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2011	33R225AB	Lincoln Solar A	SOLAR PV	4/11/2014			0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2011	33R224AB	Lincoln Solar B	SOLAR PV	4/11/2014			0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2011	33R227AB	Merced Ave A	SOLAR PV	4/11/2014			0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2011	33R228AB	Merced Ave B	SOLAR PV	4/11/2014			0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2011	33R229AB	Merced Ave C	SOLAR PV	4/11/2014			0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2011	33R226AB	Nicolas Solar C	SOLAR PV	4/11/2014			0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2011	33R205AB	Oakley Solar Project	SOLAR PV	6/12/2013			0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2011	33R208AB	Petaluma Solar 1101	SOLAR PV	3/26/2014			0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2011	33R209AB	Petaluma Solar 1102	SOLAR PV	3/26/2014			0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2011	33R187AB	Pristine Sun Alvares 2041	SOLAR PV	3/3/2014			0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2011	33R198AB	Pristine Sun Buzzelle	SOLAR PV	3/3/2014			0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2011	33R177AB	Pristine Sun Christensen	SOLAR PV	2/17/2014			0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2011	33R190AB	Pristine Sun Cotton	SOLAR PV	3/3/2014			0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2011	33R180AB	Pristine Sun Fritzjarrell	SOLAR PV	2/17/2014			0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2011	33R201AB	Pristine Sun Harris	SOLAR PV	3/3/2014			0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2011	33R174AB	Pristine Sun Helton	SOLAR PV	2/17/2014			0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2011	33R204AB	Pristine Sun Hill	SOLAR PV	3/3/2014			0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2011	33R195AB	Pristine Sun Jardine	SOLAR PV	3/3/2014			0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2011	33R191AB	Pristine Sun Jarvis	SOLAR PV	3/3/2014			0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2011	33R178AB	Pristine Sun Rogers	SOLAR PV	7/12/2013			0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2011	33R202AB	Pristine Sun Scherz	SOLAR PV	3/3/2014			0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2011	33R197AB	Pristine Sun Smotherman	SOLAR PV	3/3/2014			0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2011	33R188AB	Pristine Sun Stroing	SOLAR PV	3/3/2014			0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2011	33R171AB	Pristine Sun Terzian	SOLAR PV	2/17/2014			0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2011	33R160	Recurrent Kansas South - PV PPA 1	SOLAR PV	6/7/2013			0.042	0.790	1.098	7.514	9.254	12.096	11.940	11.572	10.609	4.747	0.155	0.109
2011	33R210AB	San Benito Smart Park	SOLAR PV	9/26/2013			0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2011	33R185AB	Toro SLO Landfill	LANDFILL GAS	7/21/2013			0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2011	33R223AB	Vaca Solar 100	SOLAR PV	4/11/2014			0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2011	33R233AB	Vintner Solar	SOLAR PV	4/11/2014			0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2011	33R161	Westlands Solar Farms - PV PPA 1	SOLAR PV	2/14/2014			0.000	0.711	0.988	6.762	8.329	10.941	10.800	10.467	9.596	4.294	0.140	0.099
2012	33R283	ABEC Bidart-Old River LLC	DIGESTER GAS	2/28/2014			0.000	0.000	1.039	1.039	1.039	1.039	1.039	1.039	1.039	1.039	1.039	1.039
2012	33R284	ABEC Bidart-Stockdale LLC	DIGESTER GAS	4/6/2013			0.408	0.408	0.408	0.408	0.408	0.408	0.408	0.408	0.408	0.408	0.408	0.408

APPENDIX B1

							Net Qualifying Capacity (MW)											
Vintage	**LogNumber**	**Name**	**Technology**	**Start Date**	**2014 MWh**	**2014 Cost**	**Jan-14**	**Feb-14**	**Mar-14**	**Apr-14**	**May-14**	**Jun-14**	**Jul-14**	**Aug-14**	**Sep-14**	**Oct-14**	**Nov-14**	**Dec-14**
2012	33R262AB	Agua Caliente (Bena A)	SOLAR PV	8/29/2014			0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2012	33R278	Columbia Solar (Columbia) - RAM 2	SOLAR PV	11/20/2014			0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.104
2012	33R280	Corcoran Irrigation District Solar PV Project (Cor	SOLAR PV	11/20/2014			0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.109
2012	33R281AB	Ecos Energy - Hollister Project	SOLAR PV	4/25/2014			0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2012	33R282AB	Ecos Energy - Merced Solar Project	SOLAR PV	5/21/2014			0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2012	33R265AB	Garces (Oswell A)	SOLAR PV	8/29/2014			0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2012	33R277	GASNA 27P (GASNA 27P) - RAM 2	SOLAR PV	11/20/2014			0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.077
2012	33R263AB	Kern River (Bena B)	SOLAR PV	8/29/2014			0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2012	33R275	Mammoth 3 (M3 Ormat) - RAM 2	GEOTHERMAL	12/31/2013			5.400	5.400	5.400	5.400	5.400	5.400	5.400	5.400	5.400	5.400	5.400	5.400
2012	33R243	Mammoth G3 (Ormat) - RAM 1	GEOTHERMAL	4/1/2013			10.080	10.080	10.080	10.080	10.020	10.020	10.020	10.020	10.020	10.020	10.020	10.020
2012	33R253	NID Dutch Flat 2	SMALL HYDRO	7/1/2013			26.000	26.000	26.000	26.000	26.000	26.000	26.000	26.000	26.000	26.000	26.000	26.000
2012	33R253	NID Rollins	SMALL HYDRO	7/1/2013			26.000	26.000	26.000	26.000	26.000	26.000	26.000	26.000	26.000	26.000	26.000	26.000
2012	33R252	PCWA French Mds	SMALL HYDRO	5/1/2013			14.440	14.450	14.880	15.410	16.350	17.160	16.830	16.010	14.990	14.240	14.200	14.240
2012	33R252	PCWA Hell Hole	SMALL HYDRO	5/1/2013			14.440	14.450	14.880	15.410	16.350	17.160	16.830	16.010	14.990	14.240	14.200	14.240
2012	33R252	PCWA Oxbow	SMALL HYDRO	5/1/2013			14.440	14.450	14.880	15.410	16.350	17.160	16.830	16.010	14.990	14.240	14.200	14.240
2012	33R264AB	Sequoia (Bena C)	SOLAR PV	8/29/2014			0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2012	33R272	SKIC Solar 1 - PV PPA 2	SOLAR PV	12/30/2014			0.000	0.000	0.000	0.000	9.254	12.156	12.000	11.630	10.662	4.771	0.156	0.110
2012	33R254	SPI Biomass Portfolio	BIOMASS	11/1/2014			0.000	0.000	0.000	28.560	28.560	28.560	28.560	28.560	28.560	28.560	28.560	28.560
2012	33R266AB	Tehachapi (Oswell B)	SOLAR PV	8/29/2014			0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2012	33R244	West Antelope - RAM 1	SOLAR PV	6/30/2014			0.000	0.000	0.000	0.000	0.000	0.000	12.000	11.630	10.662	4.771	0.156	0.110
2012	33R245	Western Antelope BSR A - RAM 1	SOLAR PV	7/30/2014			0.000	0.000	0.000	0.000	0.000	0.000	0.000	11.630	10.662	4.771	0.156	0.110
2012	33R246	Wind Resource I - RAM 1	WIND	1/1/2013			0.230	0.750	1.840	2.140	2.710	3.060	2.150	1.410	0.420	0.540	0.670	0.370
2012	33R276	Wind Resource II (CalWind) - RAM 2	WIND	10/1/2013			1.361	1.895	4.463	4.442	5.929	6.822	5.167	3.226	1.792	1.488	0.963	0.916
2012	33R260AB	Yolo County Grassland #3	SOLAR PV	7/1/2013			0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2012	33R261AB	Yolo County Grassland #4	SOLAR PV	8/5/2013			0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2012	PGEPVUOG_PY3_GA	PGE Gates	SOLAR PV	6/24/2013			0.042	0.790	1.098	7.514	9.254	12.156	12.000	11.630	10.662	4.771	0.155	0.109
2012	PGEPVUOG_PY3_GU	PGE Guernsey	SOLAR PV	10/1/2013			0.042	0.790	1.098	7.514	9.254	12.156	12.000	11.630	10.662	4.771	0.155	0.109
2012	PGEPVUOG_PY3_WG	PGE West Gates	SOLAR PV	6/24/2013			0.021	0.395	0.549	3.757	4.627	6.078	6.000	5.815	5.331	2.386	0.077	0.055
2013	33R294AB	APEX 646-460	SOLAR PV	10/24/2014			0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2013	33R285AB	Ecos Energy - Mission Solar	SOLAR PV	7/7/2014			0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2013	33R295AB	Fresno Cogeneration - Fresno Solar South	SOLAR PV	10/24/2014			0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2013	33R296AB	Fresno Cogeneration - Fresno Solar West	SOLAR PV	10/24/2014			0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2013	33R293AB	GASNA 6P - San Joaquin 1B Fit 1	SOLAR PV	10/24/2014			0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2013	33R300AB	Greenlight - Sirius Solar Project	SOLAR PV	10/24/2014			0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2013	13H132QPA	DIGGER CREEK RANCH	SMALL HYDRO	5/1/2013			0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2013	33R302AB	Castor Solar Project	SOLAR PV	12/20/2014			0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2013	33R301AB	Lincoln Metering and Hydroelectric Station	SMALL HYDRO	12/20/2014			0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2013	33R303AB	Vega Solar Project	SOLAR PV	12/20/2014			0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
TOTAL							**149.216**	**208.976**	**264.202**	**802.964**	**1,057.493**	**1,333.004**	**1,549.981**	**1,541.584**	**1,441.978**	**759.903**	**198.295**	**187.729**

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