

October 1, 2013

Advice 4296-E
(Pacific Gas and Electric Company D 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 ERRRA 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. 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

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 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>



Vice President – Regulatory Relations

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

AttachmentsPublic 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 ffi GAS

Phone#: (415) 973-8580

ffi PLC ffi HEAT ffi WATER

E-mail: ixg8@pge.com and PGETariffs@pge.com

EXPLANATION OF UTILITY TYPE

(Date Filed/ Received Stamp by CPUC)

ELC= Electric
PLC= Pipeline

GAS= Gas
HEAT= Heat

WATER Water

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 ffi 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

Summarized 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:

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 ffi 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, 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 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 ERRRA 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

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	wind, hydro	2001	0.8 ¢/kWh	0.80
AZ	Tucson Electric	Bright Tucson Community Solar	local PV	2010	2.0 ¢/kWh	2.00
AZ	UniSource Energy Services	Bright Tucson Community Solar	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	2007	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 of	Light Green	25% renewable	2008	0 ¢/kWh	-
CA	Marin Energy Authority: City of Belvedere, Town of Fairfax, County of Marin, City of	Deep Green	100% renewable	2010	1.0 ¢/kWh	1.00
CA	PacificCorp: 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	Greenenergy	wind, landfill gas, hydro, PV	1999	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 Voluntary Renewable Energy	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 Pool	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	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 Egg 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	PacificCorp: Rocky Mountain Power	Blue Sky	wind	2008	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, Pow	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	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 G	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	Navajo Electric Cooperative	Voluntary Renewable Energy	TBD	2008	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, Inc	Renewable Resource Power	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 Power	wind	1999	2.5 ¢/kWh	2.50
OR	Oregon Trail Electric Cooperative	Green Power	wind	2002	1.5 ¢/kWh	1.50
OR	PacificCorp: Pacific Power	Blue Sky Block	wind	2000	1.95 ¢/kWh	1.95
OR	PacificCorp: Pacific Power	Blue Sky QS (Commercial)	wind	2004	Sliding scale depending on size	
OR	PacificCorp: 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 Large	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	wind, hydro	2001	0.8 ¢/kWh	0.80
WA	Avista Utilities	Buck-A-Buck	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 Alternatives	PV, wind, micro hydro	2001	Contribution	
WA	Clallam County PUD	Clallam County PUD Green Program	landfill gas	2001	0.69 ¢/kWh	0.69
WA	Clark Public Utilities	Greentech	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	Northern 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	wind, hydro	2001	0.8 ¢/kWh	0.80
WY	Yampa Valley Electric Association	Wind Egg Program	wind	1999	0.6¢/kWh	0.60
					Average Cents / kWh	1.645
					Average \$ / MWh	16.45

APPENDIX B1

Vintage	LogNumber	Name	Technology	Start Date	2014 MWh	2014 Cost	Net Qualifying Capacity (MW)											
							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	BR066	Ipaz Solar Farms	SOLAR PV	2/22/2013			0.703	13.228	19.734	143.969	192.644	253.063	266.121	274.400	266.721	119.350	4.062	3.025
2009	BR073	AV Solar Ranch One	SOLAR PV	4/11/2013			0.483	9.089	12.624	86.408	106.425	139.798	138.000	133.744	122.008	54.593	1.782	1.259
2009	BR099	DTE Stockton PSEDEF	BIOGASS	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	BR090	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	BR063	Yerpah 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	BR064	Yerpah 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	BR089-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	BR118	Alpugh 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	BR119	Alpugh 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	BR120	Aberl 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	BR136	Backspring 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	BR137	Backspring 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	BR121	Cororan	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	BR138	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	BR078	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	BR132	Sunshine Landfill III	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	BR122	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	BR184B	Bar Creek Solar Project	SOLAR PV	8/3/2014			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	BR170B	Central Valley Ag River	BIOGASS	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	BR237B	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	BR238B	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	BR234B	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	BR156B	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	BR155B	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	BR182	FR Orion Solar - PV RA 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	BR254B	Gastine-Pres Facility	DIGESTER GAS	3/13/2014			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	BR264B	Gastine-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	BR264B	Igite 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	BR207B	Igite 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	BR232B	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	BR214B	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	BR215B	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	BR216B	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	BR225B	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	BR224B	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	BR227B	Mirod 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	BR228B	Mirod 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	BR229B	Mirod 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	BR226B	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	BR205B	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	BR204B	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	BR209B	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	BR187B	Pristine Sun Alvares 2041	SOLAR PV	8/3/2014			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	BR198B	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	BR177B	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	BR190B	Pristine Sun Cotton	SOLAR PV	8/3/2014			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	BR180B	Pristine Sun Fritzarrell	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	BR201B	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	BR174B	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	BR204B	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	BR195B	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	BR191B	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	BR178B	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	BR202B	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	BR197B	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	BR188B	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	BR171B	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	BR160	Recurrent Kansas South - PV RA 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

APPENDIX B1

Vintage	LogNumber	Name	Technology	Start Date	2014 MWh	2014 Cost	Net Qualifying Capacity (MW)																
							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	BR262B	Agua Caliente (Bna A)	SOLARPV	8/29/2014			0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2012	BR278	Columbia Solar (Columbia) - RM 2	SOLARPV	11/20/2014			0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.104	
2012	BR280	Corcoran Irrigation District Solar PV Project (Cor)	SOLARPV	11/20/2014			0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.109	
2012	BR281AB	Ecos Energy - Hollister Project	SOLARPV	4/25/2014			0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000	
2012	BR282AB	Ecos Energy - Merced Solar Project	SOLARPV	5/21/2014			0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000	
2012	BR265AB	Gross (Cowl A)	SOLARPV	8/29/2014			0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000	
2012	BR277	GASNA 27P (GASNA 27P) - RM 2	SOLARPV	11/20/2014			0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.077	
2012	BR263AB	Kim River (Bna B)	SOLARPV	8/29/2014			0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000	
2012	BR275	Mammoth 3 (M3Ormat) - RM 2	GEOTHERMAL	12/31/2013			5.40	5.40	5.40	5.40	5.40	5.40	5.40	5.40	5.40	5.40	5.40	5.40	5.40	5.40	5.40	5.40	
2012	BR243	Mammoth G3 Ormat - RM 1	GEOTHERMAL	4/1/2013			10.080	10.080	10.080	10.080	10.080	10.080	10.080	10.080	10.080	10.080	10.080	10.080	10.080	10.080	10.080	10.080	
2012	BR253	NID Dutch Flat 2	SMALL HYDRO	7/1/2013			26.00	26.00	26.00	26.00	26.00	26.00	26.00	26.00	26.00	26.00	26.00	26.00	26.00	26.00	26.00	26.00	
2012	BR253	NID Rollins	SMALL HYDRO	7/1/2013			26.00	26.00	26.00	26.00	26.00	26.00	26.00	26.00	26.00	26.00	26.00	26.00	26.00	26.00	26.00	26.00	
2012	BR252	PDWA French Mts	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	14.200	14.200	14.200	14.200	14.200	
2012	BR252	PDWA 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	14.200	14.200	14.200	14.200	14.200	
2012	BR252	PDWA Otow	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	14.200	14.200	14.200	14.200	14.200	
2012	BR264B	Squira (Bna C)	SOLARPV	8/29/2014			0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000	
2012	BR272	SKIC Solar 1 - PV PPA 2	SOLARPV	12/30/2014			0.00	0.00	0.00	0.00	9.254	12.156	12.000	11.630	10.662	4.771	0.156	0.110	0.110	0.110	0.110	0.110	
2012	BR254	SPI Biomass Portfolio	BIOMASS	11/11/2014			0.00	0.00	0.00	28.560	28.560	28.560	28.560	28.560	28.560	28.560	28.560	28.560	28.560	28.560	28.560	28.560	
2012	BR266AB	Tehachapi (Cowl B)	SOLARPV	8/29/2014			0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000	
2012	BR244	West Antelope - RM 1	SOLARPV	6/30/2014			0.00	0.00	0.00	0.00	0.00	0.00	12.000	11.630	10.662	4.771	0.156	0.110	0.110	0.110	0.110	0.110	
2012	BR245	Western Antelope BSRA - RM 1	SOLARPV	7/30/2014			0.00	0.00	0.00	0.00	0.00	0.00	0.00	11.630	10.662	4.771	0.156	0.110	0.110	0.110	0.110		
2012	BR246	Wind Resource I - RM 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	0.370	0.370	0.370	0.370	
2012	BR276	Wind Resource II (CalWind) - RM 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	0.916	0.916	0.916	0.916	
2012	BR260AB	Yolo County Grassland #3	SOLARPV	7/1/2013			0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000	
2012	BR261AB	Yolo County Grassland #4	SOLARPV	8/5/2013			0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000	
2012	PGEPV00G PY3 GA	PGE Gates	SOLARPV	6/24/2013		0.002	0.790	1.098	7.514	9.254	12.156	12.000	11.630	10.662	4.771	0.155	0.109	0.109	0.109	0.109	0.109	0.109	
2012	PGEPV00G PY3 GU	PGE Guemsey	SOLARPV	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	0.109	0.109	0.109	0.109	0.109	
2012	PGEPV00G PY3 WG	PGE West Gates	SOLARPV	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	0.055	0.055	0.055	0.055	0.055	
2013	BR294B	APEX 646-460	SOLARPV	10/24/2014			0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000	
2013	BR285AB	Ecos Energy - Mission Solar	SOLARPV	7/7/2014			0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000	
2013	BR295AB	Fresno Cogeneration - Fresno Solar South	SOLARPV	10/24/2014			0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000	
2013	BR296AB	Fresno Cogeneration - Fresno Solar West	SOLARPV	10/24/2014			0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000	
2013	BR293AB	GASNA 6P - San Joaquin 1B Fit 1	SOLARPV	10/24/2014			0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000	
2013	BR202B	Greenlight - Sirius Solar Project	SOLARPV	10/24/2014			0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000	
2013	13H132QPA	DIGGER CREEK RANCH	SMALL HYDRO	5/1/2013		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000	
2013	BR202B	Castor Solar Project	SOLARPV	12/20/2014			0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000	
2013	BR201AB	Lincoln Metering and Hydroelectric Station	SMALL HYDRO	12/20/2014			0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000	
2013	BR203B	Vega Solar Project	SOLARPV	12/20/2014			0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	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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