

**BEFORE THE PUBLIC UTILITIES COMMISSION
OF THE STATE OF CALIFORNIA**

Order Instituting Rulemaking to Continue
Implementation and Administration of
California Renewables Portfolio Standard
Program.

Rulemaking 06-05-027

(Filed May 25, 2006)

**TRANSMISSION RANKING COST REPORT OF
PACIFIC GAS AND ELECTRIC COMPANY (U 39-E)
FOR RENEWABLES PORTFOLIO STANDARD PROCUREMENT**

Pacific Gas and Electric Company (“PG&E”) files the attached report, entitled “2008 Transmission Ranking Cost Report Of Pacific Gas and Electric Company” in compliance with the Assigned Commissioner Ruling and Scoping Memo dated June 15, 2007, and further revised schedule issued by Administrative Law Judge Mattson on August 23, 2007.

Respectfully submitted,

WILLIAM V. MANHEIM
ARTHUR L. HAUBENSTOCK
EVELYN C. LEE

By: _____ /s/
EVELYN C. LEE

Pacific Gas and Electric Company
77 Beale Street
San Francisco, CA 94105
Telephone: (415) 973-2786
Facsimile: (415) 973-5520
E-Mail: ecl8@pge.com

Attorneys for
PACIFIC GAS AND ELECTRIC COMPANY

September 7, 2007

2008 TRANSMISSION RANKING COST REPORT OF PACIFIC GAS AND ELECTRIC COMPANY

I. INTRODUCTION

In compliance with the Ruling and in support of California's RPS Program, PG&E has initiated its renewable resource procurement process for 2008. This effort included sending a letter on August 1, 2007, requesting initial information for its 2008 RPS solicitation process. Following the practice used and approved for prior Transmission Ranking Cost Reports (TRCRs), PG&E utilized the information that it received in response to this letter to guide its selection of the clusters to be studied in the development of its 2008 TRCR.

This 2008 TRCR is based on the Methodology adopted in Decision (D.)04-06-013 and further addressed in D.05-07-040 for the development and consideration of transmission costs considered in the selection of resources to meet the Renewable Portfolio Standard ("RPS").^{1/}

This Methodology estimates the capital costs of upgrades to transmission facilities that would be needed to deliver power from potential renewable energy areas, and thus estimates the transmission cost for ranking bids submitted in response to PG&E's 2008 RPS procurement solicitation.

A. The Purpose of the TRCR is to Support the RPS Solicitation Process.

The TRCR is intended solely to provide information used in ranking RPS bids in the RPS procurement solicitation process. The TRCR estimates the cost of accepting deliveries from renewable resource projects over the utility transmission system; this cost estimate is used only as one factor in the comparison of solicited bids. The estimates in the 2008 TRCR, as with prior TRCRs, are neither intended nor calculated for any other purpose and cannot be relied upon for any other purpose.

- Potential RPS bidders should use the information regarding expected transmission upgrades contained in the TRCR in developing their bids in response to the 2008 RPS procurement solicitation from PG&E.
- PG&E will use the transmission cost estimates in the 2008 TRCR as a factor in evaluating and ranking the bids it receives through the 2008 RPS solicitation. This evaluation and ranking process will include calculation of transmission cost bid adders and the assignment of these adders to specific RPS projects, to allow PG&E to determine the combination of projects that will meet its approved renewable procurement goals in a least-cost, best-fit manner².

^{1/} Initially, the RPS requires certain retail sellers of electricity to increase their sales of electricity from renewable energy by at least 1% per year, so that renewable resources would serve at least 20% of retail sales by 2017 at the latest. SB 107, enacted by the California Legislature in 2006, that goal was accelerated to 20% of retail sales from renewable energy deliveries by 2010.

² Other commercial arrangements may be used in bid evaluation, as specified in PG&E's 2007 RPS Solicitation Protocol. However, such alternative arrangements are beyond the scope of the TRCR.

B. Additional Information Is Needed to Determine Project-Specific Costs.

It is important to note that the estimates of transmission costs in this TRCR will not be definitive, and will not establish the ultimate cost of connecting any given renewable resource to the transmission grid. Generation developers seeking to interconnect to the PG&E transmission system will have to apply for interconnection with the California Independent System Operator Corporation (“CAISO”), in accordance with the requirements of the CAISO tariff (the “CAISO Tariff”), as approved by the Federal Energy Regulatory Commission (“FERC”). These requirements currently include participation in the CAISO’s Feasibility Study, System Impact Study, and Facilities Study (“SIS/FS”) process. The SIS/FS process is intended to accurately identify transmission network upgrades needed to accommodate the added generation.

Many potential renewable resource projects submitting bids into the 2008 RPS solicitation process will not have initiated the CAISO SIS/FS process, and therefore will not have the projected cost information that results from that process. In the absence of complete interconnection cost information for each bid, the TRCR provides an acceptable basis for comparing the relative interconnection costs associated with those bids. That is, although the TRCR does not provide final interconnection cost data, it does provide sufficient information to allow PG&E to consider the *relative* transmission cost of each resource being bid, as part of the least-cost best-fit analysis needed to *rank* and select renewable resources for development.

C. Inputs to the Report Are Generally A Matter of Record.

This TRCR identifies and provides estimated cost information regarding transmission upgrades needed for potential RPS projects, based on the following inputs:

- Conceptual transmission studies submitted previously pursuant to D.04-06-010 and D.05-07-040;
- Other conceptual transmission studies; and
- System Impact Studies and Facilities Studies prepared for projects that have initiated the CAISO interconnection process.

D. Methodological Parameters of the TRCR.

As in the 2004, 2005, 2006, and 2007 TRCRs, which were filed on June 23, 2004, August 3, 2005, March 15, 2006 and November 8, 2006, respectively, the cost estimates presented in this TRCR are the result of best efforts to estimate strategies that would be used to accommodate potential renewable resources. These strategies are based on reconnaissance-type information and rely extensively on engineering judgment, which in turn is tempered by experience and informed by limited, focused usage of the power flow program. Consistent with the earlier Screening Level Studies, this TRCR is based on the following considerations:

Scope.

- The assessment covers transmission Network Upgrades from the first point of interconnection of the renewable resources to PG&E’s existing transmission

system towards the load. Direct Assignment Facilities^{3/} or “Gen-ties” are not covered.

Proxy Facilities.

- As in the previous TRCRs, transmission cost estimates are based on proxy facilities that could mitigate potential congestion due to the addition of potential renewable resources. In developing the proxy facilities, results from other studies previously published were also used where appropriate (such as PG&E’s Path 15 Rating Studies for power flows in the South to North direction, the Tehachapi Collaborative Study Group Reports filed by Southern California Edison (“SCE”) on March 16, 2005 and April 17, 2006, and PG&E’s 2006 Electric Grid Expansion Plan.).

Base Cases.

- The 2012 Summer Peak and Summer Off Peak base cases were developed from the power flow cases that were prepared for the 2007 PG&E Area Assessment Studies to develop PG&E’s 2007 Transmission Expansion Plan and represents the transmission network (including transmission projects approved by CAISO or PG&E), load forecast (1-in-5 year adverse weather system peak load for the Summer Peak base case and the summer off peak load for the Summer Off Peak base case), and expected generation retirements for year 2012. These base cases were reviewed and approved by the CAISO. These base cases were then modified to reflect the transmission projects approved as of August 2007, new generation projects that have completed the SIS/FS process, transmission projects approved by the generation developers through completed SIS/FS processes, and the results of PG&E’s 2004, 2005, 2006 and 2007 Renewables Solicitations as of August 2007. For the 2012 Summer Off Peak base case, the Path 15 south-north flow was modeled at its WECC Accepted Path Rating of 5,400 MW.

Renewable Resource Potential.

- The potential renewable resources assumed in the study are consistent with the results of the Renewable Resources Development Report (“RRDR”) published by the California Energy Commission (“CEC”) on September 30, 2003, and augmented based on the result of the draft result of the CEC’s Strategic Value Analysis, published in 2005. These CEC results have been further augmented based on data received by PG&E from potential renewables developers in response to PG&E’s solicitations for information conducted in 2003, 2004, 2005, 2006 and 2007.

Clusters.

- The PG&E study performed to develop the TRCR assumed that energy from the renewable resources locations identified would be delivered as part of each

^{3/} “Direct Assignment Facilities” are transmission facilities necessary to physically and electrically interconnect a new facility to the CAISO Controlled Grid. CAISO Tariff § 5.7.5.

“cluster” at Bellota, Caribou, Cottonwood, Delta Metering Station, Fulton, Gates, Gregg, Helm, Los Banos, Midway, Morro Bay, Newark, Panoche, Pit 1, Rio Oso, Round Mountain, Stagg, Summit Metering Station, Table Mountain, Tesla, Vaca Dixon, and Wilson Substations. (See Exhibit 1.).

Renewable Resources Scenarios.

- In accordance with D. 04-06-013, PG&E’s application of the Methodology investigated the proxy facilities needed using two scenarios: 1) Assuming PG&E would be the purchaser of energy from renewable resources located within and outside PG&E’s service territory; and 2) Assuming PG&E would transmit the energy from renewable resources located either in PG&E’s service territory, or north and east of PG&E’s service territory, to purchasers south of PG&E’s service territory.

Associated Clusters Assumed When PG&E is the Assumed Purchaser.

- If PG&E is the assumed purchaser of renewable resources located north of PG&E’s service territory, the associated potential cluster would be PG&E’s Round Mountain Substation. For generation projects located east of PG&E’s service territory, the associated potential cluster would be PG&E’s side of Summit Metering Station. For projects located south of PG&E’s service territory, the associated potential cluster would be PG&E’s Midway Substation.

Associated Clusters Assumed When PG&E is not the Assumed Purchaser.

- If SCE, San Diego Gas & Electric Company (“SDG&E”) or any other entity south of PG&E’s service territory is the purchaser, and the renewable resources are located north of or in PG&E’s service territory, PG&E assumes that the renewable resources will be transmitted from the associated clusters to PG&E’s Midway Substation, the point of delivery out of PG&E’s service territory. PG&E’s Transmission Ranking Cost from the cluster associated with the renewable resource location should be used by SCE and SDG&E, as appropriate, for complete evaluation.

Reactive Support.

- Voltage (reactive) support is required to reliably transmit energy from generation resources to load. The reactive support needed is in addition to the reactive power produced by the generators. To be effective, voltage support devices would be installed at various strategic locations, which are generally at or near the load centers. The estimated levels of voltage support used in the TRCR are based on results of past studies, and are technology-neutral, assuming that all renewable generators are capable of producing reactive power typical of synchronous generators.

System Reliability.

- The PG&E study performed to develop the TRCR assumes that each renewable resource connected in response to PG&E’s resource solicitation would do its

share to maintain existing system reliability by operating within applicable nomograms, such as the California-Oregon Interconnection (“COI”) Nomogram, and by participating in existing special protection schemes, such as the Path 15 Remedial Action Scheme.

E. Application of the Transmission Ranking Cost Study to RPS Bid Selection.

1. Use of Clusters.

The PG&E study performed to develop the TRCR uses clusters to provide a basis for grouping RPS bids solely for purposes of comparison. Any given resource may ultimately be physically connected to points near, but not necessarily at, the cluster assumed by the study. Consistent with Attachment A of D.04-06-013, PG&E has developed Transmission Ranking Costs based on potential transmission congestion, the associated proxy transmission network upgrades, and the associated capital costs that may be expected to accommodate each cluster of renewable resources. For each cluster, PG&E has identified various levels of possible additional transmission capacity and a projected estimate of related costs.^{4/} Level 1 reflects the available transmission capacity, taking into account all approved reliability and economic transmission projects, as well as upgrades planned for generation projects in the CAISO interconnection queue, based on completed SIS/FS processes. The next Level and subsequent Levels reflect the next most cost-effective proxy network upgrade(s). The number of Levels depend on the number of proxy network upgrades reasonably expected to be necessary to accommodate the anticipated total amount of renewable resources in each cluster.

2. Overview of Tables.

The Transmission Ranking Costs are summarized in Tables 1 and 2. Table 1 presents calculations using PG&E as the presumed purchaser of the renewable power. Table 2 presents calculations assuming that SCE or SDG&E (or other entities south of PG&E’s service territory) is the purchaser. In each table, the Transmission Ranking Costs have been separated into sections that would broadly correspond to system conditions in peak and off-peak periods, so they can be used in least cost-best fit bid evaluation for super-peak, peak and shoulder periods and night periods.^{5/} The separation of transmission costs into these periods may allow a potential

^{4/} Costs are equal to the total capital cost of the proxy transmission network upgrade project and are stated in 2007 constant dollars. Net present value (“NPV”) amounts of each alternative would differ.

^{5/}

Definitions:

Super-Peak (5x8) = HE (Hours Ending) 13 - 20, Monday - Friday (*except* NERC holidays).

Shoulder = HE 7 - 12, 21 and 22, Monday - Friday (*except* North American Electric Reliability Council (“NERC”) holidays); and HE 7 - 22 Saturday, Sunday and *all* NERC holidays.

Night (7x8) = HE 1 - 6, 23 and 24 all days (*including* NERC holidays).

NERC (Additional Off-Peak) Holidays include: New Year’s Day, Memorial Day, Independence Day, Labor Day, Thanksgiving Day, and Christmas Day. Three of these days, Memorial Day, Labor Day, and Thanksgiving Day occur on the same day each year. Memorial Day is the last Monday in May; Labor Day is the first Monday in September; and Thanksgiving Day is the last Thursday in November. New Year’s Day, Independence Day, and Christmas Day, by definition, are predetermined dates each year. However, in the event they occur on a Sunday, the “NERC Additional Off-Peak Holiday” is celebrated on the Monday immediately following that Sunday. However, if any of these days occur on a Saturday, the “NERC Additional Off-Peak Holiday” remains on that Saturday.

bidder to take into account potential transmission congestion, and accordingly structure the optimal generation profile for its bid or reflect any potential curtailment it might want to include in its bid.

As expected, a number of network facilities requiring upgrades are common to several clusters, depending on the levels of generation added. These common proxy Network Upgrades provide some opportunity for refining the bid ranking, once the bids have been received and analyzed. Some of the common network facilities that are identified as limiting facilities are:

Bellota – Gregg 230 kV lines

Westley – Los Banos 230 kV lines

Round Mountain – Table Mountain 500 kV line

Table Mountain - Vaca-Dixon 500 kV line

Los Banos – Gates – Midway 500 kV line

Note that some facilities, which were identified as subject to congestion in the 2006 and 2007 TRCR, are no longer so identified due to transmission upgrades that were proposed in PG&E's 2005 and 2006 Expansion Plans and that were subsequently approved. These facilities include:

Table Mountain – Colgate – Rio Oso 230 kV lines

Vaca Dixon - Shiloh-Contra Costa 230 kV line

Vaca Dixon – Parkway 230 kV line

Vaca Dixon – Tulucay 230 kV line

PG&E will continue to identify transmission projects that are needed for multiple purposes in its 2006 Expansion Plan (for example, transmission reinforcements that would be needed to maintain system reliability and to accommodate renewable resources). PG&E expects to release its 2007 Expansion Plan in December 2007. As transmission projects that will be identified in the 2007 plan have not yet been approved, they are not considered in the PG&E study used to generate this TRCR. However, if they are approved by the ISO and PG&E Management before the 2008 RPS bids are short-listed, the added transmission capacity associated with these new transmission projects will be assumed to be available for purposes of bid evaluation.

Table 1

**2008 Transmission Ranking Cost for Study Year 2012 for Potential Generation
Assuming PG&E is the Purchaser**

Substation Associated With Cluster of Potential Generation	Level	Peak and Shoulder					Night				
		Year Round					Year Round				
		Maximum MW of Potential Generation in each Level	Cost of Proxy Network Upgrades to accommodate MW Level of Potential Generation (\$ millions in 2007 dollars)		Annual Carrying Charges*** (\$ millions in 2007 dollars)		Maximum MW of Potential Generation in each Level	Cost of Proxy Network Upgrades to accommodate MW Level of Potential Generation (\$ millions in 2007 dollars)		Annual Carrying Charges*** (\$ millions in 2007 dollars)	
Proxy Voltage Support Devices*	Other Proxy Transmission upgrades		Based on 10 year contract life	Based on 20 year contract life	Proxy Voltage Support Devices*	Other Proxy Transmission upgrades		Based on 10 year contract life	Based on 20 year contract life		
Bellota 230 kV	1	1,000	65	0	15.9	12.2	0	0	0	0.0	0.0
	2						1,000	65	25		
Caribou 230 kV	1	0	0	0	0.0	0.0	150	10	0	2.4	1.8
	2	50	3	327	81.0	61.9	700	46	171	53.2	40.6
	3	1,000	65	33	24.2	18.4	150	10	39	12.0	9.1
Cottonwood 230 kV	1	0	0	0	0.0	0.0	800	52	0	12.8	9.7
	2	1,000	65	266	81.1	62.0	200	13	39	12.8	9.7
Delta Metering Station 115 kV (PP&L)	1	0	0	0	0.0	0.0	0	0	0	0.0	0.0
	2	300	20	18	9.1	6.9	300	20	18	9.1	6.9
Fulton 230 kV	1	750	49	0	12.0	9.1	300	20	0	4.8	3.7
	2						200	13	16	7.2	5.5
Gates 230 kV	1	1,000	65	0	15.9	12.2	0	0	0	0.0	0.0
	2						900	59	1,000	259.7	198.3
	3						350	23	89	27.3	20.9
Gregg 230 kV	1	0	0	0	0.0	0.0	1,000**	65	0	15.9	12.2
	2	450	29	4	8.1	6.2					
	3	250	16	3	4.8	3.6					
	4	50	3	40	10.5	8.0					
	5	250	16	21	9.1	6.9					
Helm Sub 230 kV	1	250	16	0	4.0	3.0	300	20	0	4.8	3.7
	2	300	20	16	8.8	6.7	300	20	20	9.6	7.3

* Static VAR Compensator (SVC) is used as a proxy for voltage support devices required. The size of the SVC at each Level assumes the capacity in each level will be fully utilized. However, since addition of voltage support devices is less “lumpy” than other transmission facilities, it is separately listed so that the size, and hence, cost can be prorated based on the size of the resource bid.

** The maximum potential generation for these levels assumes that it is cost effective to increase pumping at Helms Pump Storage Plant (PSP) during off-peak (night) periods using the new generation at these clusters. In addition, for the off peak (night) hours for the months of June through September, the maximum MW generation in each level could be increased by another 300 MW when maximum pumping at Helms PSP is likely.

*** Carrying charges in this table are for illustrative purposes only. The actual carrying charge for an individual offer will depend on specifics in the offer submitted.

Substation Associated With Cluster of Potential Generation	Level	Peak and Shoulder					Night				
		Year Round					Year Round				
		Maximum MW of Potential Generation in each Level	Cost of Proxy Network Upgrades to accommodate MW Level of Potential Generation (\$ millions in 2007 dollars)		Annual Carrying Charges*** (\$ millions in 2007 dollars)		Maximum MW of Potential Generation in each Level	Cost of Proxy Network Upgrades to accommodate MW Level of Potential Generation (\$ millions in 2007 dollars)		Annual Carrying Charges*** (\$ millions in 2007 dollars)	
Proxy Voltage Support Devices*	Other Proxy Transmission upgrades		Based on 10 year contract life	Based on 20 year contract life	Proxy Voltage Support Devices*	Other Proxy Transmission upgrades		Based on 10 year contract life	Based on 20 year contract life		
Los Banos 230 kV	1	750	49	0	12.0	9.1	400	26	0	6.4	4.9
	2						800	52	89	34.5	26.4
Midway 230 kV	1	1,400	91	0	22.3	17.1	0	0	0	0.0	0.0
	2	2,600	169	39	51.0	39.0	1,250	81	1,000	265.2	202.6
Morro Bay 230 kV	1	250	16	0	4.0	3.0	0	0	0	0.0	0.0
	2	750	49	43	22.5	17.2	500	33	1,000	253.3	193.5
	3						500	33	43	18.5	14.1
Newark 230 kV	1	500	33	0	8.0	6.1	1,000	65	0	15.9	12.2
Panoche 230 kV	1	1,000	65	0	15.9	12.2	0	0	0	0.0	0.0
	2						600	39	23	15.2	11.6
	3						800	52	89	34.5	26.4
Pit 230 kV	1	200	13	0	3.2	2.4	150	10	0	2.4	1.8
	2	50	3	336	83.3	63.7	50	3	9	3.1	2.4
	3	700	46	18	15.7	12.0	300	20	45	15.7	12.0
	4	700	46	9	13.4	10.2	700	46	39	20.7	15.8
Rio Oso 230 kV	1	0	0	0	0.0	0.0	1,000	65	0	15.9	12.2
	2	350	23	9	7.8	6.0					
	3	250	16	6	5.4	4.1					
Round Mt 230 kV	1	0	0	0	0.0	0.0	600	39	0	9.6	7.3
	2	200	13	327	83.4	63.7	1,200	78	39	28.7	21.9
	3	700	46	266	76.4	58.3					
	4	250	16	39	13.6	10.4					
Stagg 230 kV	1	700	46	0	11.2	8.5	700	46	0	11.2	8.5
Summit Metering Station 115kV	1	0	0	0	0.0	0.0	50	3	0	0.8	0.6
	2	200	13	25	9.3	7.1	700	46	25	17.3	13.2

* Static VAR Compensator (SVC) is used as a proxy for voltage support devices required. The size of the SVC at each Level assumes the capacity in each level will be fully utilized. However, since addition of voltage support devices is less “lumpy” than other transmission facilities, it is separately listed so that the size, and hence, cost can be prorated based on the size of the resource bid.

** The maximum potential generation for these levels assumes that it is cost effective to increase pumping at Helms Pump Storage Plant (PSP) during off-peak (night) periods using the new generation at these clusters. In addition, for the off peak (night) hours for the months of June through September, the maximum MW generation in each level could be increased by another 300 MW when maximum pumping at Helms PSP is likely.

*** Carrying charges in this table are for illustrative purposes only. The actual carrying charge for an individual offer will depend on specifics in the offer submitted.

Substation Associated With Cluster of Potential Generation	Level	Peak and Shoulder					Night				
		Year Round					Year Round				
		Maximum MW of Potential Generation in each Level	Cost of Proxy Network Upgrades to accommodate MW Level of Potential Generation (\$ millions in 2007 dollars)		Annual Carrying Charges*** (\$ millions in 2007 dollars)		Maximum MW of Potential Generation in each Level	Cost of Proxy Network Upgrades to accommodate MW Level of Potential Generation (\$ millions in 2007 dollars)		Annual Carrying Charges*** (\$ millions in 2007 dollars)	
Proxy Voltage Support Devices*	Other Proxy Transmission upgrades		Based on 10 year contract life	Based on 20 year contract life	Proxy Voltage Support Devices*	Other Proxy Transmission upgrades		Based on 10 year contract life	Based on 20 year contract life		
Table Mt 230 kV	1	0	0	0	0.0	0.0	850	55	0	13.6	10.4
	2	900	59	327	94.6	72.3					
Tesla 230 kV	1	2,000	130	0	31.9	24.4	2,000	130	0	31.9	24.4
Vaca Dixon 230 kV	1	0	0	0	0.0	0.0	1,000	65	0	15.9	12.2
	2	1,000	65	221	70.2	53.7					
Wilson 230 kV	1	400	26	0	6.4	4.9	500**	33	0	8.0	6.1
	2	75	5	16	5.2	4.0					
	3	125	8	2	2.4	1.9					

* Static VAR Compensator (SVC) is used as a proxy for voltage support devices required. The size of the SVC at each Level assumes the capacity in each level will be fully utilized. However, since addition of voltage support devices is less “lumpy” than other transmission facilities, it is separately listed so that the size, and hence, cost can be prorated based on the size of the resource bid.

** The maximum potential generation for these levels assumes that it is cost effective to increase pumping at Helms Pump Storage Plant (PSP) during off-peak (night) periods using the new generation at these clusters. In addition, for the off peak (night) hours for the months of June through September, the maximum MW generation in each level could be increased by another 300 MW when maximum pumping at Helms PSP is likely.

*** Carrying charges in this table are for illustrative purposes only. The actual carrying charge for an individual offer will depend on specifics in the offer submitted.

Table 2

2008 Transmission Ranking Cost for Study Year 2012 for Potential Generation Located North of or in PG&E Service Territory

Assuming Delivery to PG&E’s Midway Substation (SCE or SDG&E is the Purchaser)

Level		Peak and Shoulder					Night				
		Year Round					Year Round				
		Maximum MW of Potential Generation In each Level	Cost of Proxy Network Upgrades to accommodate MW Level of Potential Generation (\$ millions in 2007 dollars)		Annual Carrying Charges*** (\$ millions in 2007 dollars)		Maximum MW of Potential Generation In each Level	Cost of Proxy Network Upgrades to accommodate MW Level of Potential Generation (\$ millions in 2007 dollars)		Annual Carrying Charges*** (\$ millions in 2007 dollars)	
Proxy Voltage Support Devices*	Other Proxy Transmission upgrades		Based on 10 year contract life	Based on 20 year contract life	Proxy Voltage Support Devices*	Other Proxy Transmission upgrades		Based on 10 year contract life	Based on 20 year contract life		
Bellota 230 kV	1	1,000	65	0	15.9	12.2	0	0	0	0.0	0.0
	2						1,000	65	25	22.1	16.9
Caribou 230 kV	1	0	0	0	0.0	0.0	150	10	0	2.4	1.8
	2	50	3	327	81.0	61.9	700	46	171	53.2	40.6
	3	1,000	65	33	24.2	18.4	150	10	39	12.0	9.1
Cottonwood 230 kV	1	0	0	0	0.0	0.0	800	52	0	12.8	9.7
	2	1,000	65	266	81.1	62.0	200	13	39	12.8	9.7
Delta Metering Station 115 kV (PP&L)	1	0	0	0	0.0	0.0	0	0	0	0.0	0.0
	2	300	20	18	9.1	6.9	300	20	18	9.1	6.9
Fulton 230 kV	1	1,000	65	0	15.9	12.2	300	20	0	4.8	3.7
	2						200	0	16	4.0	3.0
Gates 230 kV	1	1,000	65	0	15.9	12.2	0	0	0	0.0	0.0
	2						1,000	65	45	26.9	20.5
Gregg 230 kV	1	0	0	0	0.0	0.0	1,000**	65	0	15.9	12.2
	2	500	33	4	8.9	6.8					
	3	400	26	3	7.1	5.5					
	4	200	13	23	8.9	6.8					
	5	100	7	35	10.3	7.9					

* Static VAR Compensator (SVC) is used as a proxy for voltage support devices required. The size of the SVC at each Level assumes the capacity in each level will be fully utilized. However, since addition of voltage support devices is less “lumpy” than other transmission facilities, it is separately listed so that the size, and hence, cost can be prorated based on the size of the resource bid.

** The maximum potential generation for these levels assumes that it is cost effective to increase pumping at Helms Pump Storage Plant (PSP) during off-peak (night) periods using the new generation at these clusters. In addition, for the off peak (night) hours for the months of June through September, the maximum MW generation in each level could be increased by another 300 MW when maximum pumping at Helms PSP is likely.

*** Carrying charges in this table are for illustrative purposes only. The actual carrying charge for an individual offer will depend on specifics in the offer submitted.

Level		Peak and Shoulder					Night				
		Year Round					Year Round				
		Maximum MW of Potential Generation In each Level	Cost of Proxy Network Upgrades to accommodate MW Level of Potential Generation (\$ millions in 2007 dollars)		Annual Carrying Charges*** (\$ millions in 2007 dollars)		Maximum MW of Potential Generation In each Level	Cost of Proxy Network Upgrades to accommodate MW Level of Potential Generation (\$ millions in 2007 dollars)		Annual Carrying Charges*** (\$ millions in 2007 dollars)	
Proxy Voltage Support Devices*	Other Proxy Transmission upgrades		Based on 10 year contract life	Based on 20 year contract life	Proxy Voltage Support Devices*	Other Proxy Transmission upgrades		Based on 10 year contract life	Based on 20 year contract life		
Helm Sub 230 kV	1	250	16	0	4.0	3.0	250	16	0	4.0	3.0
	2	250	16	16	8.0	6.1	350	23	86	26.7	20.4
Los Banos 230 kV	1	1,000	65	0	15.9	12.2	600	39	0	9.6	7.3
	2						1,000	65	89	37.7	28.8
Midway 230 kV	1	1,250	81	0	19.9	15.2	3,000	195	0	47.8	36.5
	2	2,600	169	39	51.0	39.0					
Morro Bay 230 kV	1	250	16	0	4.0	3.0	550	36	0	8.8	6.7
	2	1,250	81	43	30.5	23.3	1,000	65	212	67.9	51.9
Newark 230 kV	1	1,500	98	0	23.9	18.3	1,000	65	0	15.9	12.2
Panoche 230 kV	1	1,500	98	0	23.9	18.3	0	0	0	0.0	0.0
	2						1,300	85	53	33.8	25.8
Pit 230 kV	1	0	0	0	0.0	0.0	150	10	0	2.4	1.8
	2	250	16	327	84.2	64.3	50	3	9	3.1	2.4
	3	50	3	46	12.0	9.2	300	20	45	15.7	12.0
	4	750	49	9	14.2	10.8	700	46	39	20.7	15.8
Rio Oso 230 kV	1	0	0	0	0.0	0.0	1,000	65	0	15.9	12.2
	2	350	23	9	7.8	6.0					
	3	250	16	6	5.4	4.1					
Round Mt 230 kV	1	0	0	0	0.0	0.0	600	39	0	9.6	7.3
	2	200	13	327	83.4	63.7	1,200	78	39	28.7	21.9
	3	700	46	266	76.4	58.3					
	4	250	16	39	13.6	10.4					
Stagg 230 kV	1	700	46	0	11.2	8.5	700	46	0	11.2	8.5
Summit Metering Station 115 kV	1	0	0	0	0.0	0.0	50	3	0	0.8	0.6
	2	1,000	65	25	22.1	16.9	700	46	25	17.3	13.2

* Static VAR Compensator (SVC) is used as a proxy for voltage support devices required. The size of the SVC at each Level assumes the capacity in each level will be fully utilized. However, since addition of voltage support devices is less “lumpy” than other transmission facilities, it is separately listed so that the size, and hence, cost can be prorated based on the size of the resource bid.

** The maximum potential generation for these levels assumes that it is cost effective to increase pumping at Helms Pump Storage Plant (PSP) during off-peak (night) periods using the new generation at these clusters. In addition, for the off peak (night) hours for the months of June through September, the maximum MW generation in each level could be increased by another 300 MW when maximum pumping at Helms PSP is likely.

*** Carrying charges in this table are for illustrative purposes only. The actual carrying charge for an individual offer will depend on specifics in the offer submitted.

Level		Peak and Shoulder					Night				
		Year Round					Year Round				
		Maximum MW of Potential Generation In each Level	Cost of Proxy Network Upgrades to accommodate MW Level of Potential Generation (\$ millions in 2007 dollars)		Annual Carrying Charges*** (\$ millions in 2007 dollars)		Maximum MW of Potential Generation In each Level	Cost of Proxy Network Upgrades to accommodate MW Level of Potential Generation (\$ millions in 2007 dollars)		Annual Carrying Charges*** (\$ millions in 2007 dollars)	
Proxy Voltage Support Devices*	Other Proxy Transmission upgrades		Based on 10 year contract life	Based on 20 year contract life	Proxy Voltage Support Devices*	Other Proxy Transmission upgrades		Based on 10 year contract life	Based on 20 year contract life		
Table Mt 230 kV	1	0	0	0	0.0	0.0	850	55	0	13.6	10.4
	2	1,000	65	327	96.2	73.5					
Tesla 230 kV	1	2,000	130	0	31.9	24.4	2,000	130	0	31.9	24.4
Vaca Dixon 230 kV	1	0	0	0	0.0	0.0	1,000	65	0	15.9	12.2
	2	1,000	65	221	70.2	53.7					
Wilson 230 kV	1	450	29	0	7.2	5.5	450**	29	0	7.2	5.5
	2	100	7	16	5.6	4.3	50	3	7	2.5	1.9

* Static VAR Compensator (SVC) is used as a proxy for voltage support devices required. The size of the SVC at each Level assumes the capacity in each level will be fully utilized. However, since addition of voltage support devices is less “lumpy” than other transmission facilities, it is separately listed so that the size, and hence, cost can be prorated based on the size of the resource bid.

** The maximum potential generation for these levels assumes that it is cost effective to increase pumping at Helms Pump Storage Plant (PSP) during off-peak (night) periods using the new generation at these clusters. In addition, for the off peak (night) hours for the months of June through September, the maximum MW generation in each level could be increased by another 300 MW when maximum pumping at Helms PSP is likely.

*** Carrying charges in this table are for illustrative purposes only. The actual carrying charge for an individual offer will depend on specifics in the offer submitted.

II. DEVELOPMENT OF THE TRANSMISSION RANKING COST REPORT

A. Procedural History.

SB 1078 established the California Renewables Portfolio Standard Program and the objective that 20% of electricity sold to California customers would be procured from eligible renewable energy resources by 2017. In 2006, SB 107 was enacted, accelerating the procurement objective to 20% of retail sales from eligible renewable resources by 2010. SB 1038 required the CEC to complete a renewable resource plan and required the Commission to complete a renewable resource transmission plan. Both reports were required to be submitted to the Legislature by December 1, 2003. Accordingly, the Commission's transmission plan was based on the CEC's renewable resource plan.

B. PG&E's Conceptual Transmission Studies for Renewable Resource Bidders.

A key element in PG&E's methodology is the identification of clusters at which renewable generators may be expected to appear. This section describes the various indicia of potential renewable resource generator development that have led PG&E to identify twenty-two renewable resource clusters.

1. Studies Completed as of July 30, 2003

Pursuant to the January 29, 2003, Administrative Law Judge's ("ALJ's") Ruling and Notice of Evidentiary Hearings on Tehachapi Transmission Project in the Commission's Investigation (I.) 00-11-001, PG&E invited developers who might wish to interconnect eligible renewable energy projects to the PG&E-owned transmission system to apply for and fund transmission conceptual studies, including project cost estimates. PG&E's solicitation noted that project-specific information from such studies might be included in the renewables transmission plan report that the Commission was required to submit to the Legislature by December 1, 2003. (Public Utilities Code § 383.6).

Five potential renewable resource developers responded to PG&E's March 2003 solicitations, describing a total of twelve projects representing 2,562 MW. Of these, seven projects representing 1102 MW were located within PG&E's service territory. Three projects representing 220 MW were located in PacifiCorp's service territory, with proposed interconnection points at Bonneville Power Administration-owned substations. Two projects representing 1240 MW were located outside California and were excluded from the Screening Level Evaluation.

2. CEC Renewable Resource Assessment Reported Dated July 1, 2003.

The February 26, 2003, ALJ's Ruling in I.00-11-001 determined that the CEC's Preliminary Renewable Resource Assessment ("PRRA") would assess a level of renewable development in 2005 and 2008 sufficient to allow PG&E, SCE, SDG&E, and any other "obligated entities" to achieve the incremental RPS goals embodied in Senate Bill 1078. This CEC assessment was intended to provide the basis for a reconnaissance level analysis of current and potential transmission. The CEC published its PRRA on July 1, 2003. The PRRA resource assessment identified renewable megawatt additions for the transmission plan's target years

(2005, 2008 and 2017) by technology type and by county where renewable resources are deemed most likely to locate. PG&E has relied on the PRRA as the basis of its reconnaissance level analysis of current and potential transmission congestion due to the interconnection of potential renewable resources. PG&E filed its Screening Level Study required by SB 1038 on August 29, 2003.

3. Administrative Law Judge Rulings Dated July 21, 2003 and August 1, 2003 - Revised Scope of Study Based on CEC PRRA.

The ALJ's rulings of July 21, 2003, and August 1, 2003, further required utilities to develop a conceptual renewables transmission plan for 2017 (similar to the conceptual transmission plans developed for 2005 and 2008), to address the effect of accelerating realization of the 20% RPS Goal from 2017 to 2010, and to report on the transmission needs for potential renewable resources that would still exist after attainment of the RPS Goal.

4. CEC Renewable Resource Development Report Dated September 30, 2003.

The CEC's draft Renewable Resource Development Report ("RRDR") provided the Commission with an update to the PRRA on July 1, 2003. This RRDR expanded the scope to include the energy needs of the rest of the state (publicly owned electric utilities, other IOUs, and other electric service providers). By comparison, the original PRRA had focused on the energy needs of the investor owned utilities ("IOUs") and electric service providers ("ESPs") for transmission planning purposes. The RRDR also included a plausible RPS compliance scenario for the entire state, using data from existing and proposed projects.^{6/} Adjustments were made to the estimates of renewable energy resources needed to meet RPS obligations, the amount of proposed renewable projects, and the installed renewable capacity within California and the WECC. The CEC's estimate of renewable resource capacity required to meet the RPS of 20% by 2010 on a statewide level and remaining potential renewable resources are summarized in Table 3:

^{6/} The RRDR states "The data for the proposed projects date back as far as June 1998 from the Energy Commission's first New Account auction to as recent as projects participating in the 2003 Interim Procurement. A limited amount of projects were filtered out if they did not appear to be plausible or 'real' projects. Most of the proposed projects do not have contracts and are not yet under construction. Data on proposed projects were gathered from solicitations for new electric providers to IOU and/or municipal electric utilities. The following data sources were used: the Energy Commission's New Renewable Resources Account database, California Power Authority Letters of Intent, Southern California Public Power Authority (SCPPA) Request for Proposals (RFP) and the 2003 Northern California Power Association (NCPA) RFP." As such, there is not sufficient information in the RRDR to ascertain the amounts and number of "proposed" renewable resource projects that may have initiated the interconnection or permit application process.

Table 3. Plausible Renewable Energy Supply Scenario to meet Estimated Statewide 20% RPS Demand by 2010 with Resources Located in California (MW)

	2005 (MW)	2008 (MW)	2010 (MW)	2017 (MW)	Total (MW)
PG&E	420	355	50	200	1,025
SCE	875	2,452	1,645	1,110	6,082
IID	120	140	150	40	450
SDG&E	220	210	-	-	430
TOTAL	1,635	3,157	1,845	1,350	7,987

In the PG&E service territory, compared to the PRRA, the RRDR scenario assumes that the development of renewable resources in Solano and Alameda Counties would accelerate, and the renewable resources development in Modoc and Siskiyou Counties would be slower.

5. Commission Administrative Law Judge Rulings Dated October 15, 2003—Revised Schedule and Approach of Study Based on CEC RRDR.

The ALJ Ruling of October 15, 2003, modified the schedule and approach to be used for the Commission Renewables Transmission Report. Accordingly, PG&E prepared and filed its Supplemental Screening Level Study Required by SB 1038 on October 29, 2003.

6. Commission Administrative Law Judge Rulings Dated March 18, 2004 on Renewable Resource Information to Prepare the Transmission Ranking Cost Report.

Pursuant to ALJ Ruling dated March 18, 2004, PG&E undertook a supplemental solicitation for information from developers of eligible renewable energy projects. In response to this supplemental solicitation, PG&E received information from nine developers, proposing a total of forty-one projects representing 4,313.5 MW. Of these, fourteen projects representing 736 MW were located within PG&E's service territory. Twenty-five projects representing 3477.5 MW were located in Southern California. Two projects representing 100 MW were located in PacificCorp's service territory, with proposed interconnection points at Bonneville Power Administration owned substations. PG&E used this information to supplement the information available earlier in developing the clusters for the 2004 Transmission Ranking Cost Report.

On March 18, 2005, PG&E sent another letter of solicitation for information to developers regarding eligible renewable energy projects expected to commence delivery to the PG&E-owned transmission system by January 2010. PG&E received responses from four developers by the closing date of March 28, 2005, for sixteen generation projects totaling 2,905 MW. Of these, six projects, totaling 671 MW, are expected to be in the PG&E service area, three projects, totaling 732 MW, are expected to be located north of the PG&E service area but within California, and seven projects, totaling 1,502 MW, are expected to be located in Southern California. PG&E used this information to supplement the information available earlier in developing the clusters for the 2004 Transmission Ranking Cost Report.

7. Commission Decision 05-07-040 directed the utilities to apply the same Methodology, as modified by that decision, in preparing their 2005 Transmission Ranking Cost Reports.

In D.05-07-040, the Commission directed the utilities to apply the same methodology, as modified by that decision, in preparing their 2005 Transmission Ranking Cost Reports. In addition, it directed the utilities to specify and explain the carrying costs, in addition to capital costs, of transmission upgrades identified in the reports. Accordingly, PG&E calculates the carrying costs -- or costs of ownership -- for proposed capital expenditures. These costs are then discounted to a present value using a discount rate that takes into account the time value of money over the anticipated life of the project. The components used in the determination of the carrying cost typically include capital investment, operation and maintenance expenses, taxes, insurance, and depreciation.

8. CEC Strategic Value Analysis Draft Consultant Report published in July 2005

CEC Strategic Value Analysis shows the possible locations by county and magnitudes of the economic potential of the renewable resources. Exhibit 2 is a map showing a potential distribution scenario of renewable resources. This serves as another data point to be considered when selecting the clusters to be investigated in this 2006 TRCR.

Table 4: RPS Requirements listed in CEC Consultant Draft Report on Strategic Value Analysis CEC-500-2005-106

LSE	2001 estimated renewable baseline (GWh/yr)	2003		2004		2005		2010 20% of demand forecast (GWh/yr)	2017 20% of demand forecast (GWh/yr)
		2003 actual (GWh/yr)	% of 2003 APT	2004 actual (GWh/yr)	% of 2004 APT	2005 IOU expected (GWh/yr)	2005 needed to be on course for 20% by 2010 (GWh/yr)		
PG&E	6,719	8,828	101%	8,591	91%	9,087	9,633	15,879	17,280
SCE	11,364	12,497	104%	13,246	104%	13,634	14,560	15,934	17,340
SDG&E	146	550	285%	678	160%	884	1,285	3,462	3,767
DA & Rest of state	7,587	4,853		4,676			13,132	20,885	22,727
Total		26,728		27,191			38,610	56,160	61,114

9. Commission Assigned Commissioner and Administrative Law Judge's Ruling in OIR. 04-04-026, dated November 9, 2005, directed the utilities to apply the Methodology in D.04-06-010 and D.05-07-040 in preparing their 2006 Transmission Ranking Cost Reports

Pursuant to Assigned Commissioner and Administrative Law Judge's Ruling, dated November 9, 2005, on January 31, 2006, PG&E issued a letter soliciting information from developers regarding eligible renewable energy projects expected to commence delivery to the PG&E-owned transmission system by January 2010. By the closing date of February 7, 2006, PG&E received only one response, which came from a single developer; that response representing two generation projects, totaling 70 MW. Both projects are expected to be located north of PG&E's service area, with one of these two projects expected in California. PG&E used this information to supplement the information available earlier in developing the clusters for this 2006 TRCR.

10. Assigned Commissioner Ruling and Scoping Memo, dated August 21, 2006, as modified by the subsequent Administrative Law Judge's Ruling on Filing of Draft 2007 RPS Procurement Plans, dated September 14, 2006, in R.06-05-027

Pursuant to Assigned Commissioner Ruling and Scoping Memo, dated August 21, 2006, as modified by the subsequent Administrative Law Judge's Ruling on Filing of Draft 2007 RPS Procurement Plans, dated September 14, PG&E issued a letter on October 2, 2006, soliciting information from developers regarding eligible renewable energy projects expected to commence delivery to the PG&E-owned transmission system by January 2011. By the closing date of October 10, 2006, PG&E received responses from five developers, representing twenty-one generation projects totaling up to 3,039 MW. Of these, four projects, totaling 462 MW, are expected to be in the Pacific Northwest, one project representing 500 MW is expected to locate in Mexico, seven projects, totaling 1,212 MW, are expected to be in northern California, and 8 projects, totaling 865 MW, are expected to be in Southern California. PG&E used this information to supplement information available earlier in developing the clusters for the 2007 Transmission Ranking Cost Report.

11. Assigned Commissioner Ruling and Scoping Memo, dated June 15, 2007, as modified by the subsequent revised schedules provided via Administrative Law Judge's Rulings on July 16, 2007, August 7th, 2007 and August 23, 2007. and the Assigned Commissioner's Ruling on July 31st, 2007.

Pursuant to Assigned Commissioner Ruling and Scoping Memo, dated June 15, 2007, as modified by the aforementioned rulings, PG&E issued a letter on August 1, 2007, soliciting information from developers regarding eligible renewable energy projects expected to commence delivery to the PG&E-owned transmission system by January 2012. By the closing date of August 9, 2007, PG&E received responses from three developers, representing six generation projects totaling up to 1,139 MW. Of these, two projects, totaling 499 MW, are expected to be in the Pacific Northwest, one project representing 400 MW is expected to locate in Mexico, and three projects, totaling 240 MW, are expected to be in Central and Southern California. PG&E

used this information to supplement information available earlier in developing the clusters for the 2008 Transmission Ranking Cost Report.

III. PG&E'S TRANSMISSION RANKING COST STUDY FOR USE IN THE 2008 RPS SOLICITATION

On June 9, 2004, the Commission issued D. 04-06-013, adopting the "Methodology for Development and Consideration of Transmission Costs in Initial Renewable Portfolio Standard Procurement" (the "Methodology"), which is to be undertaken pursuant to Pub. Util. Code § 399.14. This decision also ordered PG&E to prepare and file a TRCR consistent with the Methodology within 14 days of the effective date of the Decision. It states in relevant part:

In its Transmission Ranking Cost Report, each utility should identify and provide cost information regarding transmission upgrades needed for potential RPS projects, based on conceptual transmission studies submitted previously in this proceeding, other conceptual transmission studies, and System Impact Studies and Facilities Studies prepared for projects that have initiated the California Independent System Operator (ISO) interconnection process.

To be consistent with D. 04-06-013, the study undertaken by PG&E investigated the proxy facilities needed assuming, first, that PG&E would be the purchaser from renewable resources located within and outside PG&E's service territory, and, second, that PG&E would transmit the energy from renewable resources located north of or in PG&E's service territory to a PG&E point of delivery for purchasers south of PG&E's service territory.

A. Limitations, Assumptions and Methodology Underlying PG&E's 2008 Transmission Ranking Cost Study.

PG&E uses the same methodology in this supplemental study as it did in the earlier Screening Level Studies, filed on August 29, 2003, and on October 29, 2003; in the 2004 TRCR, filed on June 23, 2004; the 2005 TRCR, filed on August 3, 2005; and the 2006 TRCR, filed on March 15, 2006 and the 2007 TRCR, filed on November 8, 2006. As such, the 2008 Transmission Ranking Costs developed herein involve the same limitations and uncertainties as the conceptual transmission plans in the earlier studies.

1. Power Flow Base Cases.

PG&E used the Summer Peak and Summer Off Peak bases cases developed in PG&E's 2007 base case series and approved by the CAISO for used in PG&E's Annual Assessment Studies.

These base cases were updated to reflect the current (as of August 2007) projects:

- Generation projects in the CAISO Interconnection Queue that have completed the System Impact Studies and Facilities Studies, and the associated transmission upgrades in accordance with the signed agreements.

- Approved reliability and economic transmission upgrades.
- The results of PG&E's prior Renewables Solicitations conducted since 2004 when the contracts were finalized.)

2. Substation Associated With Cluster of Potential Generation.

Based on information received from the developers and the CEC's PRRA and RRDR, as well as the CEC's draft Strategic Value Analysis Report, published in July 2005, PG&E has selected Bellota, Caribou, Cottonwood, Delta Metering Station, Fulton, Gates, Gregg, Helm, Los Banos, Midway, Morro Bay, Newark, Panoche, Pit 1, Rio Oso, Round Mountain, Stagg, Summit Metering Station, Table Mountain, Tesla, Vaca-Dixon, and Wilson Substations (see Exhibit 1) as the cluster locations from which the transmission impact of the renewable resources identified are analyzed. If PG&E is assumed to be the purchaser, for renewable resources located north of PG&E's service territory, the associated potential cluster will be PG&E's Round Mountain Substation. For projects located south of PG&E's service territory, the associated potential cluster will be PG&E's Midway Substation. For projects located east of PG&E's service territory, the associated potential cluster will be PG&E's side of Summit Metering Station.

If SCE, SDG&E or an entity south of PG&E's service territory is assumed to be the purchaser, and the renewable resources are located north of or in PG&E's service territory, the point of delivery out of PG&E's service territory will be PG&E's Midway Substation. As in the case where PG&E is assumed to be the purchaser, the point of receipt for renewable resources located north of PG&E's service territory is assumed to be PG&E's Round Mountain Substation, and the point of receipt for renewable resources located east of PG&E's service territory is assumed to be PG&E's side of Summit Metering Station. PG&E's Transmission Ranking Cost herein from the cluster associated with the renewable resource location should be submitted to SCE and SDG&E, as appropriate, in response to solicitation by SCE or SDG&E for complete evaluation.

3. Potential Network Upgrades and Proxy Facilities.

PG&E ran the 2012 Summer Peak and 2012 Summer Off Peak cases using the new assumptions described above. As in the earlier TRCR studies, because of the limited time and data available for this evaluation, only power flow (steady state) cases representing normal (all facilities in service) operating conditions were run. For each cluster, PG&E tested the need for network upgrades based on the same criteria used in the earlier TRCR studies. As was done earlier, transmission facilities that may experience transmission problems during single contingencies were identified by comparing the normal loadings to a loading threshold of 80% of normal facility rating. That is, if a transmission facility under normal operating conditions is loaded to 80% or more of its normal rating, then it is an indication that overload may exist during single contingency conditions, and transmission upgrades could be needed.

The proxy transmission facilities deemed needed to correct potential transmission congestion would be determined based on the lesser cost facilities similar to the congested facilities, or the following:

60 kV line for renewable resources less than 100 MW

115 kV line for renewable resources between 100 and 200 MW

230 kV line for renewable resources between 200 and 600 MW

500 kV line for renewable resources 600 MW and higher

Consideration would be given also to the existing system configuration where the potential congestion is identified, and future development expected. For example, if a large amount of renewable resources is expected beyond the present solicitation, a 500 kV line initially operated as two 230 kV circuits will be chosen over a 230 kV double circuit tower line (DCTL).

PG&E also augments the information thus developed with information from other transmission planning studies to the extent they are available. If no transmission facility in the impacted area^{2/} would be loaded to at or above 80% of normal rating in the scenario, the renewable generation in the cluster would be increased to a point where loading on at least one transmission facility would reach 80% of normal rating or when the resource addition in a cluster would reach 1,000 MW unless other information is available. Using 1,000 MW as the cut off is reasonable, since the maximum amounts in any cluster are determined based on a simplified methodology, and thus there could be other limits that could have been reached (such as voltage stability) that have not been identified. In any case, addition of over 600 MW in a cluster would require a proxy 500 kV line, which could trigger impacts and costs beyond California; such impacts cannot be addressed using this simplified methodology.

4. Load and Resource Balance, Reactive Support and other Operational Considerations.

To maintain load and resource balance while increasing the generation in each cluster, generation outside the impacted area would be decreased based on the same principle used for incorporating the generation in the CAISO Interconnection Queue. If there is more identified renewable generation after all available gas-fired generators have been decreased or shut down (while maintaining the generation level needed for local reliability in the load centers), the power flows on transmission ties to areas outside PG&E's service territory that are electrically farthest away from the cluster under study would be adjusted.

The study performed for the TRCR assumes that the renewable resources connecting to each cluster would exhibit the reactive capability of synchronous generators. Experience from past studies shows that voltage (reactive) support is required to reliably transmit the renewable resources to the load centers with the addition of any resources, including synchronous generators, located away from the load centers. To be effective, these voltage support devices would be assumed to have been installed at various strategic locations, which are generally at or near the load centers. The levels of voltage support are estimated based on proxy devices and the

^{2/} For renewable projects where PG&E is the purchaser, an impacted area is defined by identifying all transmission facilities in the same transmission planning area and/or adjacent neighboring Transmission Planning Areas where the cluster is located (i.e., electrically close to the cluster). For Renewables bidding to deliver to Southern California, the impacted area will include the system going to the point of delivery (in this case, PG&E's Midway Substation).

results of past studies, and are technology neutral. Because the voltage support devices are not as “lumpy” as the other transmission facilities, they can be estimated *pro rata* with the renewable resource bids.

Due to the lack of specific detailed information associated with all the potential renewable projects that may respond to PG&E’s RPS solicitation, this TRCR study employed very simplified methodologies. To avoid unnecessary addition of transmission network upgrades, PG&E assumes that each renewable project that is successful in winning the bid solicitation will do its share to maintain existing reliability of the system by participating in the applicable nomograms and existing special protection schemes, such as the Path 15 Remedial Action Scheme.

B. Transmission Ranking Cost Study Results.

Based on the information gathered on the possible locations of renewable resources that could bid in response to PG&E’s upcoming RPS solicitation, PG&E has selected the following PG&E substation buses to be representative clusters from which PG&E would develop Transmission Ranking Costs:

- Bellota
- Caribou
- Cottonwood
- Delta Metering Station
- Fulton
- Gates
- Gregg
- Helm
- Los Banos
- Midway
- Morro Bay
- Newark
- Panoche
- Pit 1
- Rio Oso
- Round Mountain
- Summit Metering Station
- Stagg
- Table Mountain
- Tesla
- Vaca Dixon
- Wilson

This selection represents one less in the number of clusters than investigated in the 2007 TRCR. The Cortina Cluster was eliminated because of its electrical proximity to Cottonwood

and its elimination could simply bid evaluation. In addition, because of the updated network changes and the projected new resources resulting from the prior Resource Solicitations in the base cases and the new resources in the CAISO Interconnection Queue that have since completed the SIS/FS process, transmission capacity for some clusters has been decreased from their levels in the 2007 TRCR. However, this decrease is offset by transmission capacity shown to be available in other clusters. Tables 5 - 8 show the results of the analysis. Several transmission projects being proposed in the 2007 PG&E Transmission Expansion Plan may provide added transmission capacity for additional generation at some clusters. The added transmission capacity associated with these new transmission projects will be included in bid evaluation if they are approved by the CAISO and PG&E management before the 2008 RFO bid evaluation.

Overall, the 2007 investigation shows more congestion on the 500 kV system. This is an indication that the lower voltage system may be reaching its limit and that simple solutions, such as reconductoring, may not be enough to support development of renewable resources beyond the RPS goal of 20%, assuming renewable resources continue to locate far away from the load centers. The inclusion of information contained within this TRCR in the RPS bid evaluation process is essential to the procurement of renewable resources based on least cost, best fit principles; this TRCR should also be used as a reference for the development of major transmission projects to connect those renewable resources that meet the least cost best fit criteria.

As mentioned above, to maintain load and resource balance while increasing the generation in each cluster, generation outside the impacted area will be decreased based on the same principle used for incorporating the generation in the CAISO Interconnection Queue. That is, older gas-fired generation will be displaced first, up to the point where the generation is needed for local reliability in the load centers. If there is more identified renewable generation after all available gas-fired generators have been decreased or shut down (again while maintaining generation needed for local reliability), the power flows will be adjusted on transmission ties to areas outside PG&E service territory that are electrically farthest away from the cluster under study.

Because of the amount of renewable resources added in each cluster, there appears to be more gas-fired generators that would need to be decreased or shut down as more and more renewable resources are added. Consequently, the transmission tie line flows to areas outside PG&E service territory would need to be adjusted. Since only the ties farthest away from the impacted areas would be adjusted (so as not to influence the study results for the impacted area), the Midway -Vincent 500 kV lines between PG&E and SCE would be adjusted for the clusters in the PG&E service territory north of Tesla Substation. Midway is also the point of delivery to entities south of PG&E service territory. Because of this coincidence, the Transmission Ranking Costs for clusters north of PG&E's Tesla Substation turn out to be the same, regardless of whether PG&E is the assumed purchaser of the renewable resources or simply providing the transmission to transmit the renewable resources to their purchaser(s) to the south of PG&E's service territory, as expected.

Consequently, the clusters south of Tesla are the only ones that could exhibit different impacts depending on whether PG&E is the assumed purchaser of or simply providing the transmission for the renewable resources. During peak conditions, this difference stems from

whether the assumed generation from the cluster in question would increase the power flowing enough to cause potential overloads on the transmission facilities between Los Banos and Tesla, which are likely the limiting elements since Path 15 Upgrades became operational. Power scheduled to flow to SCE is not expected to impact these facilities. During off-peak conditions, when the prevalent power flow is from SCE to PG&E (in the south-to-north direction), purchasing renewable resources from projects south of PG&E's service territory during off-peak conditions will likely encounter significant transmission congestion because any such purchases will add to the prevailing power flow. On the other hand, transmitting renewable power to parties south of PG&E's service territory under such off-peak conditions is not expected to encounter much transmission congestion, because such power transfers are expected to be in the opposite direction of the prevailing power flows.

IV. CONCLUSION

PG&E has developed its 2008 TRCR in accordance with the Methodology laid out in Attachment A of D. 04-06-013 and in D.05-7-040. The Transmission Ranking Costs developed in this report will allow PG&E to perform the needed least-cost best-fit analysis to rank and select renewable resources for development considering the transmission cost of the resource being bid.

**Table 5: 2008 TRCR
2012 Super Peak, Peak and Shoulder Periods where PG&E is the Purchaser**

Substation Associated With Cluster of Potential Generation	Level	Maximum MW of Potential Generation In each Level	Cost of Proxy Network Upgrades to accommodate MW Level of Potential Generation (\$ millions in 2007 dollars)		Limiting elements	Proxy Transmission Facility description		
			Proxy Voltage Support Devices*	Other Proxy Transm. upgrades		Proxy Voltage Support Devices*		Other Proxy Transmission upgrades
						SVC Qmax (MVAR)	SVC Qmin (MVAR)	
Bellota 230 kV	1	1000	65.0	0.0	HURLEY S 230 - PROCTER 230	500	-330	
Caribou 230 kV	1	0	0.0	0.0	TABLE MT 500 - VACA-DIXON 500	0	0	
	2	50	3.3	327.2	BELDENTP 230 - TBL MT D 230	25	-17	Build new Table Mt-Vaca Dixon 230 DCTL (230 kV construction)
	3	1000	65.0	33.5	TABLE MT 500/230 KV XFORMER	500	-330	Reconductor Caribou-Beldon-Table Mt 230 DCTL
Cottonwood 230 kV	1	0	0.0	0.0	CPVSTA 230 - CORTINA 230	0	0	
	2	1000	65.0	265.8	OLINDA 500 - OLINDAW 230	500	-330	Build new Round Mt-Table Mt 230 DCTL
Delta Metering Station 115 kV (PP&L)	1	0	0.0	0.0	DELTA 115 - CASCADE 115	0	0	
	2	300	19.5	17.5	ROUND MT 500 - TABLE MT 500	150	-99	Reconductor Delta-Cottonwood 115
Fulton 230 kV	1	750	48.8	0.0	FULTON 230 - IGNACIO 230	375	-248	

**Table 5: 2008 TRCR
2012 Super Peak, Peak and Shoulder Periods where PG&E is the Purchaser**

Substation Associated With Cluster of Potential Generation	Level	Maximum MW of Potential Generation In each Level	Cost of Proxy Network Upgrades to accommodate MW Level of Potential Generation (\$ millions in 2007 dollars)		Limiting elements	Proxy Transmission Facility description		
			Proxy Voltage Support Devices*	Other Proxy Transm. upgrades		Proxy Voltage Support Devices*		Other Proxy Transmission upgrades
						SVC Qmax (MVAR)	SVC Qmin (MVAR)	
Gates 230 kV	1	1000	65.0	0.0	PANOCH 230 - GATES 230	500	-330	
Gregg 230 kV	1	0	0.0	0.0	BORDEN 230 - GREGG 230	0	0	
	2	450	29.3	3.9	STOREY 1 230 - GREGG 230	225	-149	Reconductor Borden-Gregg 230 DCTL
	3	250	16.3	3.1	MELONES 230 - COTTLE A 230 & BULRD_EC 230 - KEARNEY 230	125	-83	Reconductor Storey-Borden 230 DCTL
	4	50	3.3	39.6	WARNERVL 230 - COTTLE B 230 & STOREY 1 230 - WILSON 230	25	-17	Reconductor Malone-Cottle 230 & Panoche-McMullin-Kearney 230
	5	250	16.3	20.8	BELLOTA 230 - COTTLE B 230	125	-83	Reconductor Wilson-Storey 230 DCTL & Cottle-Warnerville 230 DCTL
Helm Sub 230 kV	1	250	16.3	0.0	PANOCH 230 - HELM 230	125	-83	
	2	300	19.5	16.4	STRD JCT 70 - SCHLNDLR 70	150	-99	Reconductor Panoche-Helm 230
Los Banos 230 kV	1	750	48.8	0.0	WESTLEY 230 - LOSBANOS 230	375	-248	
Midway 230 kV	1	1400	91.0	0.0	MIDWAY 500/230 KV XFORMER	700	-462	
	2	2600	169.0	39.0	GATES 230 - MIDWAY 230	1300	-858	Build new 500/230 xformer
Morro Bay 230 kV	1	250	16.3	0.0	TEMPLETN 230 - MORROBAY 230	125	-83	
	2	750	48.8	43.0	MORROBAY 230 - MIDWAY 230	375	-248	Reconductor Morro Bay-Gates DCTL (Templeton in between)

**Table 5: 2008 TRCR
2012 Super Peak, Peak and Shoulder Periods where PG&E is the Purchaser**

Substation Associated With Cluster of Potential Generation	Level	Maximum MW of Potential Generation In each Level	Cost of Proxy Network Upgrades to accommodate MW Level of Potential Generation (\$ millions in 2007 dollars)		Limiting elements	Proxy Transmission Facility description		
			Proxy Voltage Support Devices*	Other Proxy Transm. upgrades		Proxy Voltage Support Devices*		Other Proxy Transmission upgrades
						SVC Qmax (MVAR)	SVC Qmin (MVAR)	
Newark 230 kV	1	500	32.5	0.0	NEWARK D 230 - NEWARK E 230	250	-165	
Panoche 230 kV	1	1000	65.0	0.0	WESTLEY 230 - LOSBANOS 230	500	-330	
Pit 1 230 kV	1	200	13.0	0.0	TABLE MT 500 - VACA-DIXON 500	100	-66	
	2	50	3.3	327.2	PIT 3 230 - ROUND MT 230	25	-17	Build new Table Mt-Vaca Dixon 230 DCTL (230 kV construction)
	3	50	3.3	9.3	BRNY FST 230 - PIT 1 230	25	-17	Reconductor Pit 3-Round Mt 230 DCTL
	4	700	45.5	9.1	MAXWELL 500 - TRACY 500	350	-231	Reconductor Pit 1-Pit 3 230 DCTL
Rio Oso 230 kV	1	0	0.0	0.0	RIO OSO 230 - ATLANTC 230	0	0	
	2	350	22.8	9.2	RIO OSO 230 - GOLDHILL 230	175	-116	Reconductor Rio Oso-Atlantic 230 DCTL
	3	250	16.3	5.8	RIO OSO 230 - BRIGHTON 230	125	-83	Reconductor Atlantic-Goldhill 230 DCTL
Round Mt 230 kV	1	0	0.0	0.0	TABLE MT 500 - VACA-DIXON 500	0	0	
	2	200	13.0	327.2	ROUND MT 500 - TABLE MT 500	100	-66	Build new Table Mt-Vaca Dixon 230 DCTL (230 kV construction)
	3	700	45.5	265.8	ROUND MT 500/230 KV XFORMER	350	-231	Build new Round Mt-Table Mt 230 DCTL
	4	250	16.3	39.0	MAXWELL 500 - TRACY 500	125	-83	Build new Round Mt 500/230 kV xformer
Stagg 230 kV	1	700	45.5	0.0	STAGG 230 - EIGHT MI 230	350	-231	

**Table 5: 2008 TRCR
2012 Super Peak, Peak and Shoulder Periods where PG&E is the Purchaser**

Substation Associated With Cluster of Potential Generation	Level	Maximum MW of Potential Generation In each Level	Cost of Proxy Network Upgrades to accommodate MW Level of Potential Generation (\$ millions in 2007 dollars)		Limiting elements	Proxy Transmission Facility description		
			Proxy Voltage Support Devices*	Other Proxy Transm. upgrades		Proxy Voltage Support Devices*		Other Proxy Transmission upgrades
						SVC Qmax (MVAR)	SVC Qmin (MVAR)	
Summit Metering Station 115 kV	1	0	0.0	0.0	CHCGO PK 115 - HIGGINS 115	0	0	
	2	200	13.0	25.1	RIO OSO 115 - BRNSWKTP 115	100	-66	Reconductor Summit-Drum-Brunswick-Placer 115 kV lines
Table Mt 230 kV	1	0	0.0	0.0	TABLE MT 500 - VACA-DIXON 500	0	0	
	2	900	58.5	327.2	TABLE MT 500/230 KV XFORMER	450	-297	Build new Table Mt-Vaca Dixon 230 DCTL (230 kV construction)
Tesla 230 kV	1	2000	130.0	0.0	PIT 4 230 - PIT 4 JT 230	1000	-660	
Vaca Dixon 230 kV	1	0	0.0	0.0	VACA-DIXON 500 - TESLA 500	0	0	
	2	1000	65.0	221.4	GATES 500 - MIDWAY 500	500	-330	Build new Vaca Dixon-Tesla 230 DCTL
Wilson 230 kV	1	400	26.0	0.0	MELONES 230 - COTTLE A 230	200	-132	
	2	75	4.9	16.4	WARNERVL 230 - COTTLE B 230	38	-25	Reconductor Malone-Cottle 230
	3	125	8.1	1.8	BELLOTA 230 - COLLLE A 230	63	-41	Reconductor Cottle-Warnerville 230 DCTL

**Table 6: 2008 TRCR
2012 Night Periods where PG&E is the Purchaser**

Substation Associated With Cluster of Potential Generation	Level	Maximum MW of Potential Generation In each Level	Cost of Proxy Network Upgrades to accommodate MW Level of Potential Generation (\$ millions in 2007 dollars)		Limiting elements	Proxy Transmission Facility description		
			Proxy Voltage Support Devices*	Other Proxy Transm. upgrades		Proxy Voltage Support Devices*		Other Proxy Transmission upgrades
						SVC Qmax (MVAR)	SVC Qmin (MVAR)	
Bellota 230 kV	1	0	0.0	0.0	WARNERVL 230 - WILSON 230	0	0	
	2	1000	65.0	25.1	BELLOTA 230 - COTTLE B 230	500	-330	Reconductor Wilson-Warnerville 230 DCTL
Caribou 230 kV	1	150	9.8	0.0	CARIBOU 230 - BELDENTP 230	75	-50	
	2	700	45.5	171.4	TABLE MT 500/230 KV XFORMER	350	-231	Build new Caribou-Beldon-Table Mt 230 DCTL
	3	150	9.8	39.0	CARBOU M 230 - CARIBOU 115	75	-50	Build new 500/230 xformer
Cottonwood 230 kV	1	800	52.0	0.0	OLINDA 500 - OLINDAW 230	400	-264	
	2	200	13.0	39.0	COTWD E 230 - ROUND MT 230	100	-66	Build new 500/230 xformer
Delta Metering Station 115 kV (PP&L)	1	0	0.0	0.0		0	0	
	2	300	19.5	17.5	GIRVAN 60 - ANDERSON 60	150	-99	Reconductor Delta-Cottonwood 115
Fulton 230 kV	1	300	19.5	0.0	T22_93 230 - LAKEVILLE 230	150	-99	
	2	200	13.0	16.2	SOBRANTE 115 - MORAGA 115	100	-66	Reconductor Fulton-Lakeville 230
Gates 230 kV	1	0	0.0	0.0	HENTAP1 230 - GATES 230	0	0	
	2	900	58.5	1000.0	WESTLEY 230 - LOSBANOS 230	450	-297	Build new Midway-Gregg 500 kV
	3	350	22.8	88.6	TESLA 500 - LOSBANOS 500	175	-116	Build new Los Banos-Westley 230 DCTL

**Table 6: 2008 TRCR
2012 Night Periods where PG&E is the Purchaser**

Substation Associated With Cluster of Potential Generation	Level	Maximum MW of Potential Generation In each Level	Cost of Proxy Network Upgrades to accommodate MW Level of Potential Generation (\$ millions in 2007 dollars)		Limiting elements	Proxy Transmission Facility description		
			Proxy Voltage Support Devices*	Other Proxy Transm. upgrades		Proxy Voltage Support Devices*		Other Proxy Transmission upgrades
						SVC Qmax (MVAR)	SVC Qmin (MVAR)	
Gregg 230 kV	1	1000	65.0	0.0	WESTLEY 230 - LOSBANOS 230	500	-330	
Helm Sub 230 kV	1	300	19.5	0.0	HELM 230 - MC CALL 230	150	-99	
	2	300	19.5	19.7	PANOCHÉ 230 - HELM 230	150	-99	Reconductor Helm-McCall 230
Los Banos 230 kV	1	400	26.0	0.0	WESTLEY 230 - LOSBANOS 230	200	-132	
	2	800	52.0	88.6	ORO LOMA 115 - EL NIDO 115	400	-264	Build new Los Banos-Westley 230 DCTL
Midway 230 kV	1	0	0.0	0.0	GATES 500 - MIDWAY 500	0	0	
	2	1250	81.3	1000.0	WESTLEY 230 - LOSBANOS 230	625	-413	Build new Midway-Gregg 500 kV
Morro Bay 230 kV	1	0	0.0	0.0	GATES 500 - MIDWAY 500	0	0	
	2	500	32.5	1000.0	TEMPLETN 230 - MORROBAY 230	250	-165	Build new Midway-Gregg 500 kV
	3	500	32.5	43.0	WESTLEY 230 - LOSBANOS 230	250	-165	Reconductor Morro Bay-Gates DCTL (Templeton in between)
Newark 230 kV	1	1000	65.0	0.0	NEWARK D 230 - NEWARK E 230	500	-330	
Panoche 230 kV	1	0	0.0	0.0	PANOCHÉ 230 - MCMULLN1 230	0	0	
	2	600	39.0	23.2	WESTLEY 230 - LOSBANOS 230	300	-198	Reconductor Panoche-McMullin-Kearney 230
	3	800	52.0	88.6	PANOCHÉ 230 - HELM 230	400	-264	Build new Los Banos-Westley 230 DCTL

**Table 6: 2008 TRCR
2012 Night Periods where PG&E is the Purchaser**

Substation Associated With Cluster of Potential Generation	Level	Maximum MW of Potential Generation In each Level	Cost of Proxy Network Upgrades to accommodate MW Level of Potential Generation (\$ millions in 2007 dollars)		Limiting elements	Proxy Transmission Facility description		
			Proxy Voltage Support Devices*	Other Proxy Transm. upgrades		Proxy Voltage Support Devices*		Other Proxy Transmission upgrades
						SVC Qmax (MVAR)	SVC Qmin (MVAR)	
Pit 1 230 kV	1	150	9.8	0.0	PIT 3 230 - ROUND MT 230	75	-50	
	2	50	3.3	9.3	SPI-BRNY 230 - PIT 3 230	25	-17	Reconductor Pit 3-Round Mt 230 DCTL
	3	300	19.5	44.6	ROUND MT 500/230 KV XFORMER	150	-99	Build new Pit 1-Pit 3 230 DCTL
	4	700	45.5	39.0	OLINDA 500 - OLINDAW 230	350	-231	Build new 500/230 xformer
Rio Oso 230 kV	1	1000	65.0	0.0	TABLE MT 500/230 KV XFORMER	500	-330	
Round Mt 230 kV	1	600	39.0	0.0	ROUND MT 500/230 KV XFORMER	300	-198	
	2	1200	78.0	39.0	OLINDA 500/230 KV XFORMER	600	-396	Build new 500/230 xformer
Stagg 230 kV	1	700	45.5	0.0	STAGG 230 - EIGHT MI 230	350	-231	
Summit Metering Station 115 kV	1	50	3.3	0.0	DRUM 115 - BRNSWCKP 115	25	-17	
	2	700	45.5	25.1	PLACER 115 - BELL PGE 115	350	-231	Reconductor Summit-Drum-Brunswick-Placer 115 kV lines
Table Mt 230 kV	1	850	55.3	0.0	TABLE MT 500/230 KV XFORMER	425	-281	
Tesla 230 kV	1	2000	130.0	0.0	TESLA E 230 - TESLA D 230	1000	-660	

**Table 6: 2008 TRCR
2012 Night Periods where PG&E is the Purchaser**

Substation Associated With Cluster of Potential Generation	Level	Maximum MW of Potential Generation In each Level	Cost of Proxy Network Upgrades to accommodate MW Level of Potential Generation (\$ millions in 2007 dollars)		Limiting elements	Proxy Transmission Facility description		
			Proxy Voltage Support Devices*	Other Proxy Transm. upgrades		Proxy Voltage Support Devices*		Other Proxy Transmission upgrades
						SVC Qmax (MVAR)	SVC Qmin (MVAR)	
Vaca Dixon 230 kV	1	1000	65.0	0.0	VACA-DIXON 500/230 KV FORMER	500	-330	
Wilson 230 kV	1	500	32.5	0.0	STOREY 1 230 - GREGG 230	250	-165	

**Table 7: 2008 TRCR
2012 Super Peak, Peak and Shoulder Periods where SCE or SDG&E is the Purchaser**

Substation Associated With Cluster of Potential Generation	Level	Maximum MW of Potential Generation In each Level	Cost of Proxy Network Upgrades to accommodate MW Level of Potential Generation (\$ millions in 2007 dollars)		Limiting elements	Proxy Transmission Facility description		
			Proxy Voltage Support Devices*	Other Proxy Transm. upgrades		Proxy Voltage Support Devices*		Other Proxy Transmission upgrades
						SVC Qmax (MVAR)	SVC Qmin (MVAR)	
Bellota 230 kV	1	1000	65.0	0.0	HURLEY S 230 - PROCTER 230	500	-330	
Caribou 230 kV	1	0	0.0	0.0	TABLE MT 500 - VACA-DIXON 500	0	0	
	2	50	3.3	327.2	BELDENTP 230 - TBL MT D 230	25	-17	Build new Table Mt-Vaca Dixon 230 DCTL (230 kV construction)
	3	1000	65.0	33.5	TABLE MT 500/230 KV XFORMER	500	-330	Reconductor Caribou-Beldon-Table Mt 230 DCTL
Cottonwood 230 kV	1	0	0.0	0.0	CPVSTA 230 - CORTINA 230	0	0	
	2	1000	65.0	265.8	OLINDA 500 - OLINDAW 230	500	-330	Build new Round Mt-Table Mt 230 DCTL
Delta Metering Station 115 kV (PP&L)	1	0	0.0	0.0	DELTA 115 - CASCADE 115	0	0	
	2	300	19.5	17.5	ROUND MT 500 - TABLE MT 500	150	-99	Reconductor Delta-Cottonwood 115
Fulton 230 kV	1	1000	65.0	0.0	FULTON 230 - T22_93 230	500	-330	
Gates 230 kV	1	1000	65.0	0.0	GATES 230 - MIDWAY 230	500	-330	
Gregg 230 kV	1	0	0.0	0.0	BORDEN 230 - GREGG 230	0	0	
	2	500	32.5	3.9	STOREY 1 230 - GREGG 230	250	-165	Reconductor Borden-Gregg 230 DCTL
	3	400	26.0	3.1	BULRD_EC 230 - KEARNEY 230	200	-132	Reconductor Storey-Borden 230 DCTL
	4	200	13.0	23.2	STOREY 1 230 - WILSON 230 & MELONES 230 - COTTLE A 230	100	-66	Reconductor Panoche-McMullin-Kearney 230
	5	100	6.5	35.4	GREGG 230 - HERNDON 230	50	-33	Reconductor Wilson-Storey 230 DCTL & Malone-Cottle 230
Helm Sub 230 kV	1	250	16.3	0.0	HELM 70 - STRD JCT 70	125	-83	
	2	250	16.3	16.4	STRD JCT 70 - SCHLNDLR 70	125	-83	Reconductor Panoche-Helm 230

**Table 7: 2008 TRCR
2012 Super Peak, Peak and Shoulder Periods where SCE or SDG&E is the Purchaser**

Substation Associated With Cluster of Potential Generation	Level	Maximum MW of Potential Generation In each Level	Cost of Proxy Network Upgrades to accommodate MW Level of Potential Generation (\$ millions in 2007 dollars)		Limiting elements	Proxy Transmission Facility description		
			Proxy Voltage Support Devices*	Other Proxy Transm. upgrades		Proxy Voltage Support Devices*		Other Proxy Transmission upgrades
						SVC Qmax (MVAR)	SVC Qmin (MVAR)	
Los Banos 230 kV	1	1000	65.0	0.0	WESTLEY 230 - LOSBANOS 230	500	-330	
Midway 230 kV	1	1250	81.3	0.0	MIDWAY 500/230 KV XFORMER	625	-413	
	2	2600	169.0	39.0		1300	-858	Build new 500/230 xformer
Morro Bay 230 kV	1	250	16.3	0.0	TEMPLETN 230 - MORROBAY 230	125	-83	
	2	1250	81.3	43.0	CARRIZO 115 - SN LS OB 115	625	-413	Reconductor Morro Bay-Gates DCTL (Templeton in between)
Newark 230 kV	1	1500	97.5	0.0	GATES 500 - MIDWAY 500	750	-495	
Panoche 230 kV	1	1500	97.5	0.0	PANOCH 230 - DS AMIGO 230	750	-495	
Pit 1 230 kV	1	0	0.0	0.0	TABLE MT 500 - VACA-DIXON 500	0	0	
	2	250	16.3	327.2	PIT 3 230 - ROUND MT 230	125	-83	Build new Table Mt-Vaca Dixon 230 DCTL (230 kV construction)
	3	50	3.3	45.6	BRNY_FST 230 - PIT 1 230	25	-17	Build new Pit 3-Round Mt 230 DCTL
	4	750	48.8	9.1	MAXWELL 500 - TRACY 500	375	-248	Reconductor Pit 1-Pit 3 230 DCTL
Rio Oso 230 kV	1	0	0.0	0.0	RIO OSO 230 - ATLANTC 230	0	0	
	2	350	22.8	9.2	RIO OSO 230 - GOLDHILL 230	175	-116	Reconductor Rio Oso-Atlantic 230 DCTL
	3	250	16.3	5.8	RIO OSO 230 - BRIGHTON 230	125	-83	Reconductor Atlantic-Goldhill 230 DCTL
Round Mt 230 kV	1	0	0.0	0.0	TABLE MT 500 - VACA-DIXON 500	0	0	
	2	200	13.0	327.2	ROUND MT 500 - TABLE MT 500	100	-66	Build new Table Mt-Vaca Dixon 230 DCTL (230 kV construction)
	3	700	45.5	265.8	ROUND MT 500 - RD MT 1M 500	350	-231	Build new Round Mt-Table Mt 230 DCTL
	4	250	16.3	39.0	MAXWELL 500 - TRACY 500	125	-83	Build new 500/230 xformer

**Table 7: 2008 TRCR
2012 Super Peak, Peak and Shoulder Periods where SCE or SDG&E is the Purchaser**

Substation Associated With Cluster of Potential Generation	Level	Maximum MW of Potential Generation In each Level	Cost of Proxy Network Upgrades to accommodate MW Level of Potential Generation (\$ millions in 2007 dollars)		Limiting elements	Proxy Transmission Facility description		
			Proxy Voltage Support Devices*	Other Proxy Transm. upgrades		Proxy Voltage Support Devices*		Other Proxy Transmission upgrades
						SVC Qmax (MVAR)	SVC Qmin (MVAR)	
Stagg 230 kV	1	700	45.5	0.0	STAGG 230 - EIGHT MI 230	350	-231	
Summit Metering Station 115 kV	1	0	0.0	0.0	CHCGO PK 115 - HIGGINS 115	0	0	
	2	1000	65.0	25.1	GOLDHILL 115 - HORSHE2 115	500	-330	Reconductor Summit-Drum-Brunswick-Placer 115 kV lines
Table Mt 230 kV	1	0	0.0	0.0	TABLE MT 500 - VACA-DIXON 500	0	0	
	2	1000	65.0	327.2	TABLE MT 500/230 KV XFORMER	500	-330	Build new Table Mt-Vaca Dixon 230 DCTL (230 kV construction)
Tesla 230 kV	1	2000	130.0	0.0	GATES 500 - MIDWAY 500	1000	-660	
Vaca Dixon 230 kV	1	1000	65	\$0	VACA-DIXON 500/230 KV XFORMER	500	-330	
Wilson 230 kV	1	450	29	\$0	STOREY 1 230 - GREGG 230	225	-149	
	2	50	3	\$4	STOREY 1 230 - GREGG 230	25	-17	Reconductor Borden-Gregg 230 DCTL

**Table 8: 2008 TRCR
2012 Night Periods where SCE or SDG&E is the Purchaser**

Substation Associated With Cluster of Potential Generation	Level	Maximum MW of Potential Generation In each Level	Cost of Proxy Network Upgrades to accommodate MW Level of Potential Generation (\$ millions in 2007 dollars)		Limiting elements	Proxy Transmission Facility description		
			Proxy Voltage Support Devices*	Other Proxy Transm. upgrades		Proxy Voltage Support Devices*		Other Proxy Transmission upgrades
						SVC Qmax (MVAR)	SVC Qmin (MVAR)	
Bellota 230 kV	1	0	0.0	0.0	WARNERVL 230 - WILSON 230	0	0	
	2	1000	65.0	25.1	BELLOTA 230 - COTTLE B 230	500	-330	Reconductor Wilson-Warnerville 230 DCTL
Caribou 230 kV	1	150	9.8	0.0	CARIBOU 230 - BELDENTP 230	75	-50	
	2	700	45.5	171.4	TABLE MT 500/230 KV XFORMER	350	-231	Build new Caribou-Beldon-Table Mt 230 DCTL
	3	150	9.8	39.0	CARBOU M 230 - CARIBOU 115	75	-50	Build new 500/230 xformer
Cottonwood 230 kV	1	800	52.0	0.0	OLINDA 500/230 KV XFORMER	400	-264	
	2	200	13.0	39.0	COTWD_E 230 - ROUND MT 230	100	-66	Build new 500/230 xformer
Delta Metering Station 115 kV (PP&L)	1	0	0.0	0.0	DELTA 115 - CASCADE 115	0	0	
	2	300	19.5	17.5	GIRVAN 60 - ANDERSON 60	150	-99	Reconductor Delta-Cottonwood 115
Fulton 230 kV	1	300	19.5	0.0	T22_93 230 - LAKEVILLE 230	150	-99	
	2	200	13.0	16.2	SOBRANTE 115 - MORAGA 115			Reconductor Fulton-Lakeville 230
Gates 230 kV	1	0	0.0	0.0	HENTAP1 230 - GATES 230	0	0	
	2	1000	65.0	44.7	GATES 230 - GATES11M 13.8	500	-330	Build new Gates-Henreitta 230
Gregg 230 kV	1	1000	65.0	0.0	STOREY 1 230 - GREGG 230	500	-330	

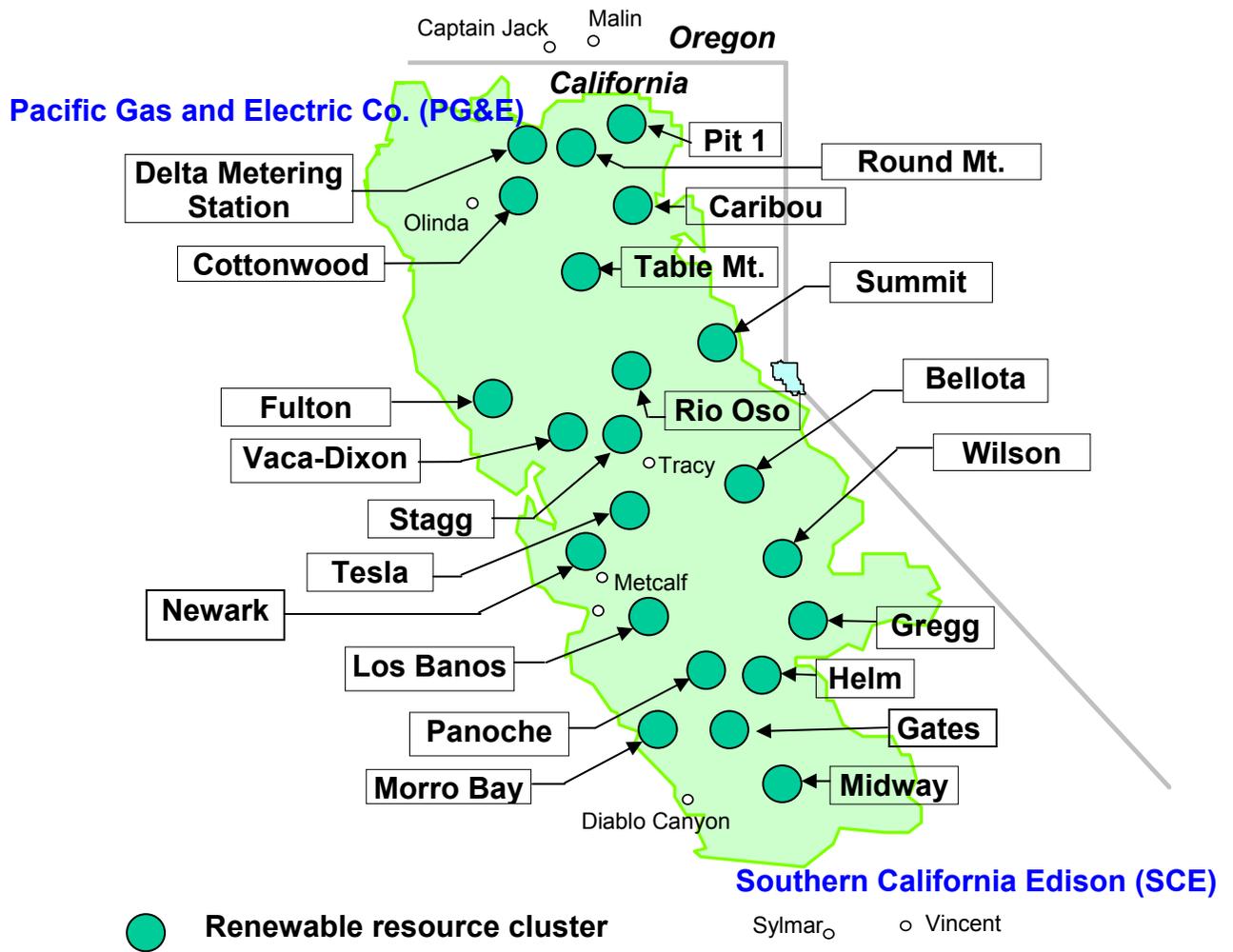
**Table 8: 2008 TRCR
2012 Night Periods where SCE or SDG&E is the Purchaser**

Substation Associated With Cluster of Potential Generation	Level	Maximum MW of Potential Generation In each Level	Cost of Proxy Network Upgrades to accommodate MW Level of Potential Generation (\$ millions in 2007 dollars)		Limiting elements	Proxy Transmission Facility description		
			Proxy Voltage Support Devices*	Other Proxy Transm. upgrades		Proxy Voltage Support Devices*		Other Proxy Transmission upgrades
						SVC Qmax (MVAR)	SVC Qmin (MVAR)	
Helm Sub 230 kV	1	250	16.3	0.0	HELM 230 - MC CALL 230	125	-83	
	2	350	22.8	86.0	PANOCHÉ 230 - HELM 230	175	-116	Build new Helm-McCall 230
Los Banos 230 kV	1	600	39.0	0.0	WESTLEY 230 - LOSBANOS 230	300	-198	
	2	1000	65.0	88.6	LOSBANOS 230 - DS AMIGO 230	500	-330	Build new Los Banos-Westley 230 DCTL
Midway 230 kV	1	3000	195.0	0.0		1500	-990	
Morro Bay 230 kV	1	550	35.8	0.0	TEMPLETN 230 - MORROBAY 230	275	-182	
	2	1000	65.0	212.0	MORROBAY 230 - MIDWAY 230	500	-330	Build new Morro Bay-Gates DCTL (Templeton in between)
Newark 230 kV	1	1000	65.0	0.0	NEWARK D 230 - NEWARK E 230	500	-330	
Panoche 230 kV	1	0	0.0	0.0	HENRIETA 230 - HENRITTA 70 & BULRD_EC 230 - KEARNEY 230	0	0	
	2	1300	84.5	53.2	PANOCHÉ 230 - HELM 230	650	-429	Build new 230/115 xformer & reconductor Panoche-McMullin-Kearney 230
Pit 1 230 kV	1	150	9.8	0.0	PIT 3 230 - ROUND MT 230	75	-50	
	2	50	3.3	9.3	SPI-BRNY 230 - PIT 3 230	25	-17	Reconductor Pit 3-Round Mt 230 DCTL
	3	300	19.5	44.6	ROUND MT 500/230 KV XFORMER	150	-99	Build new Pit 1-Pit 3 230 DCTL
	4	700	45.5	39.0	OLINDA 500/230 KV XFORMER	350	-231	Build new 500/230 xformer
Rio Oso 230 kV	1	1000	65.0	0.0	TABLE MT 500/230 KV XFORMER	500	-330	

**Table 8: 2008 TRCR
2012 Night Periods where SCE or SDG&E is the Purchaser**

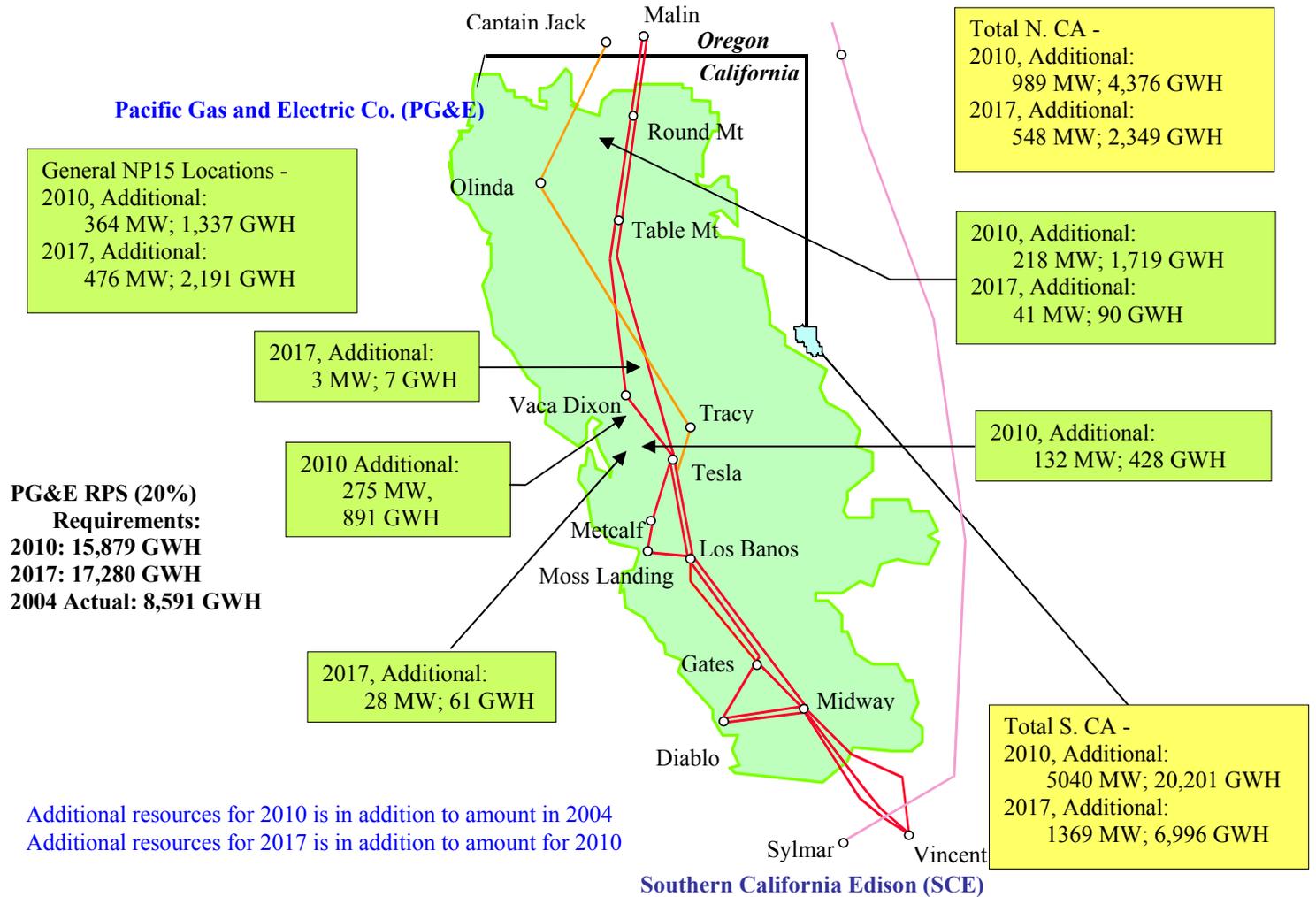
Substation Associated With Cluster of Potential Generation	Level	Maximum MW of Potential Generation In each Level	Cost of Proxy Network Upgrades to accommodate MW Level of Potential Generation (\$ millions in 2007 dollars)		Limiting elements	Proxy Transmission Facility description		
			Proxy Voltage Support Devices*	Other Proxy Transm. upgrades		Proxy Voltage Support Devices*		Other Proxy Transmission upgrades
						SVC Qmax (MVAR)	SVC Qmin (MVAR)	
Round Mt 230 kV	1	600	39.0	0.0	ROUND MT 500/230 KV XFORMER	300	-198	
	2	1200	78.0	39.0	OLINDA 500/230 KV XFORMER	600	-396	Build new 500/230 xformer
Stagg 230 kV	1	700	45.5	0.0	STAGG 230 - EIGHT MI 230	350	-231	
Summit Metering Station 115 kV	1	50	3.3	0.0	SUMMIT 1 120 - DRUM 115	25	-17	
	2	700	45.5	25.1	GOLDHILL 115 - HORSHE2 115	350	-231	Reconductor Summit-Drum-Brunswick-Placer 115 kV lines
Table Mt 230 kV	1	850	55.3	0.0	TABLE MT 500/230 KV XFORMER	425	-281	
Tesla 230 kV	1	2000	130.0	0.0	TESLA E 230 - TESLA D 230	1000	-660	
Vaca Dixon 230 kV	1	1000	65.0	0.0	VACA-DIXON 500/230 KV XFORMER	500	-330	
Wilson 230 kV	1	450	29.3	0.0	STOREY 1 230 - GREGG 230	225	-149	
	2	50	3.3	3.9	STOREY 1 230 - GREGG 230	25	-17	Reconductor Borden-Gregg 230 DCTL

Exhibit 1 PG&E Substations Associated with Renewable Resource Clusters



**Table 8: 2008 TRCR
2012 Night Periods where SCE or SDG&E is the Purchaser**

**Exhibit 2
Renewable Resource Potential based on CEC Consultant Draft Report on Strategic
Value Analysis, CEC-500-2005-106 (7/1/05 workshop)**



VERIFICATION

I am an employee of PACIFIC GAS AND ELECTRIC COMPANY, a corporation, and am authorized to make this verification on its behalf. I have read the foregoing documents dated September 7, 2007. The statements in the foregoing documents are true of my own knowledge, except as to matters which are therein stated on information and belief, and as to those matters I believe them to be true.

I declare under penalty of perjury that the foregoing is true and correct.

Executed on this 7th day of September, 2007 at San Francisco, California

/s/

Ben Morris
Manager, Strategic and Technical
Services,
Electric Asset Strategy
Pacific Gas and Electric Company

THE PUBLIC UTILITIES COMMISSION OF THE STATE OF CALIFORNIA SERVICE LIST

Downloaded September 7, 2007, last updated on August 30, 2007

Commissioner Assigned: Michael R. Peevey on May 26, 2006

ALJ Assigned: Anne E. Simon on November 15, 2006; ALJ Assigned: Burton Mattson on May 26, 2006

CPUC DOCKET NO. R0605027 CPUC REV 08-30-07

Total number of addressees: 296

ABBAS M. ABED ASSOCIATE DIRECTOR
NAVIGANT CONSULTING, INC.
402 WEST BROADWAY, STE 400
SAN DIEGO CA 92101
Email: aabed@navigantconsulting.com
Status: INFORMATION

CALIFORNIA ENERGY MARKETS
517-B POTRERO AVE
SAN FRANCISCO CA 94110
Email: cem@newsdata.com
Status: INFORMATION

3 PHASES ENERGY SERVICES
2100 SEPULVEDA BLVD., STE 37
MANHATTAN BEACH CA 90266
Email: energy@3phases.com
Status: PARTY

MRW & ASSOCIATES, INC.
1814 FRANKLIN ST, STE 720
OAKLAND CA 94612
Email: mrw@mrwassoc.com
Status: INFORMATION

SOCAL WATER/BEAR VALLEY ELECTRIC
630 EAST FOOTHILL BLVD.
SAN DIMAS CA 91773
Email: kswitzer@gswater.com
Status: PARTY

SEMPRA ENERGY SOLUTIONS
101 ASH ST, HQ09
SAN DIEGO CA 92101-3017
Email: email@semprasolutions.com
Status: PARTY

DAN ADLER DIRECTOR, TECH AND POLICY
DEVELOPMENT
CALIFORNIA CLEAN ENERGY FUND
5 THIRD ST, STE 1125
SAN FRANCISCO CA 94103
Email: Dan.adler@calcef.org
Status: INFORMATION

JASON ABIECUNAS BLACK & BEATCH GLOBAL
RENEWABLE ENERGY
RENEWABLE ENERGY CONSULTANT
11401 LAMAR
OVERLAND PARK KS 66211
FOR: RENEWABLE ENERGY CONSULTANT
Email: abiecunasjp@bv.com
Status: INFORMATION

CALIFORNIA ENERGY MARKETS
517-B POTRERO AVE.
SAN FRANCISCO CA 94110-1431
FOR: CALIFORNIA ENERGY MARKETS
Email: cem@newsdata.com
Status: INFORMATION

ENERGY AMERICA, LLC
ONE STAMFORD PLAZA, 8TH FLOOR
263 TRESSER BLVD.
STAMFORD CT 6901
Email: cindy.sola@directenergy.com
Status: PARTY

LEGAL AND REGULATORY DEPARTMENT
CALIFORNIA ISO
151 BLUE RAVINE ROAD
FOLSOM CA 95630
FOR: CALIFORNIA ISO
Email: e-recipient@caiso.com
Status: INFORMATION

STRATEGIC ENERGY, LTD.
7220 AVENIDA ENCINAS, STE 120
CARLSBAD CA 92009
Email: customerrelations@sel.com
Status: PARTY

AOL UTILITY CORP.
12752 BARRETT LANE
SANTA ANA CA 92705
Email: lalehs101@hotmail.com
Status: PARTY

CASE ADMINISTRATION
SOUTHERN CALIFORNIA EDISON COMPANY
2244 WALNUT GROVE AVE
ROSEMEAD CA 91770
FOR: SOUTHERN CALIFORNIA EDISON COMPANY
Email: case.admin@sce.com
Status: INFORMATION

THE PUBLIC UTILITIES COMMISSION OF THE STATE OF CALIFORNIA SERVICE LIST

Downloaded September 7, 2007, last updated on August 30, 2007

Commissioner Assigned: Michael R. Peevey on May 26, 2006

ALJ Assigned: Anne E. Simon on November 15, 2006; ALJ Assigned: Burton Mattson on May 26, 2006

CPUC DOCKET NO. R0605027 CPUC REV 08-30-07

Total number of addressees: 296

STACY AGUAYO
APS ENERGY SERVICES COMPANY, INC.
400 E. VAN BUREN ST, STE 750
PHOENIX AZ 85004
FOR: APS Energy Company
Email: stacy.aguayo@apses.com
Status: PARTY

LYNN M. ALEXANDER
LMA CONSULTING
129 REDWOOD AVE
CORTE MADERA CA 94925
Email: lynn@lmaconsulting.com
Status: INFORMATION

CATHIE ALLEN CA STATE MGR.
PACIFICORP
825 NE MULTNOMAH ST, STE 2000
PORTLAND OR 97232
Email: californiadockets@pacificorp.com
Status: INFORMATION

GARY L. ALLEN
SOUTHERN CALIFORNIA EDISON
2244 WALNUT GROVE AVE
ROSEMEAD CA 91770
Email: gary.allen@sce.com
Status: INFORMATION

SCOTT J. ANDERS RESEARCH/ADMINISTRATIVE
DIRECTOR
UNIVERSITY OF SAN DIEGO SCHOOL OF LAW
5998 ALCALA PARK
SAN DIEGO CA 92110
Email: scottanders@sandiego.edu
Status: INFORMATION

ROD AOKI ATTORNEY
ALCANTAR & KAHL, LLP
120 MONTGOMERY ST, STE 2200
SAN FRANCISCO CA 94104
FOR: CAC
Email: rsa@a-klaw.com
Status: PARTY

Nilgun Atamturk
CALIF PUBLIC UTILITIES COMMISSION
EXECUTIVE DIVISION
505 VAN NESS AVE RM 5303
SAN FRANCISCO CA 94102-3214
Email: nil@cpuc.ca.gov
Status: STATE-SERVICE

Amanda C. Baker
CALIF PUBLIC UTILITIES COMMISSION
ENERGY RESOURCES BRANCH
505 VAN NESS AVE AREA 4-A
SAN FRANCISCO CA 94102-3214
Email: ab1@cpuc.ca.gov
Status: STATE-SERVICE

ELIZABETH BAKER
SUMMIT BLUE CONSULTING
1722 14TH ST, STE 230
BOULDER CO 80304
Email: bbaker@summitblue.com
Status: INFORMATION

BARBARA R. BARKOVICH
BARKOVICH & YAP, INC.
44810 ROSEWOOD TERRACE
MENDOCINO CA 95460
FOR: BARKOVICH AND YAP INC.
Email: brbarkovich@earthlink.net
Status: INFORMATION

GREG BASS
SEMPRA ENERGY SOLUTIONS
101 ASH ST. HQ09
SAN DIEGO CA 92101-3017
FOR: Sempra Energy Solutions
Email: gbass@semprasolutions.com
Status: PARTY

R. THOMAS BEACH PRINCIPAL CONSULTANT
CROSSBORDER ENERGY
2560 NINTH ST, STE 213A
BERKELEY CA 94710-2557
FOR: CROSSBORDER ENERGY
Email: tomb@crossborderenergy.com
Status: PARTY

KATE BEARDSLEY
PG&E
MAILCODE B9A
PO BOX 770000
SAN FRANCISCO CA 94177
Email: kebd@pge.com
Status: INFORMATION

DAVID A. BISCHER PRESIDENT
CALIFORNIA FORESTRY ASSOCIATION
1215 K ST, STE 1830
SACRAMENTO CA 95814
FOR: California Forestry Association
Email: davidb@cwo.com
Status: PARTY

THE PUBLIC UTILITIES COMMISSION OF THE STATE OF CALIFORNIA SERVICE LIST

Downloaded September 7, 2007, last updated on August 30, 2007

Commissioner Assigned: Michael R. Peevey on May 26, 2006

ALJ Assigned: Anne E. Simon on November 15, 2006; ALJ Assigned: Burton Mattson on May 26, 2006

CPUC DOCKET NO. R0605027 CPUC REV 08-30-07

Total number of addressees: 296

SCOTT BLAISING ATTORNEY
BRAUN & BLAISING, P.C.
915 L ST, STE 1420
SACRAMENTO CA 95814
Email: blaising@braunlegal.com
Status: INFORMATION

BILLY BLATTNER
SAN DIEGO GAS & ELECTRIC COMPANY
601 VAN NESS AVE, STE 2060
SAN FRANCISCO CA 94102
FOR: SDG&E/SoCal Gas
Email: wblattner@semprautilities.com
Status: INFORMATION

ASHLEE M. BONDS
THELEN REID BROWN RAYSMAN&STEINER LLP
SUITE 1800
101 SECOND ST
SAN FRANCISCO CA 94105
Email: abonds@thelen.com
Status: INFORMATION

Traci Bone
CALIF PUBLIC UTILITIES COMMISSION
LEGAL DIVISION
505 VAN NESS AVE RM 5206
SAN FRANCISCO CA 94102-3214
Email: tbo@cpuc.ca.gov
Status: STATE-SERVICE

WILLIAM H. BOOTH ATTORNEY
LAW OFFICE OF WILLIAM H. BOOTH
1500 NEWELL AVE., 5TH FLR
WALNUT CREEK CA 94556
FOR: Ridgewood Renewable Power, LLC and Ridgewood
Olinda, LLC/CLECA
Email: wbooth@booth-law.com
Status: PARTY

KEVIN BOUDREAUX MANAGER-RETAIL OPERATIONS
CALPINE POWERAMERICA CA, LLC
717 TEXAS AVE, STE 1000
HOUSTON TX 77002
FOR: Calpine
Email: kevin.boudreaux@calpine.com
Status: PARTY

ROBERT T. BOYD
GE WIND ENERGY
6130 STONERIDGE MAIL ROAD, STE 300B
PLEASANTON CA 94588-3287
FOR: GE WIND ENERGY
Email: robert.boyd@ps.ge.com
Status: INFORMATION

STEVE BRINK
CALIFORNIA FORESTRY ASSOCIATION
1215 K ST, STE 1830
SACRAMENTO CA 95814
FOR: California Forestry Association
Email: steveb@cwo.com
Status: INFORMATION

ADAM BRIONES
THE GREENLINING INSTITUTE
1918 UNIVERSITY AVE, 2ND FLR
BERKELEY CA 94704
Email: adamb@greenlining.org
Status: INFORMATION

GLORIA BRITTON
ANZA ELECTRIC COOPERATIVE, INC.
58470 HWY 371
PO BOX 391909
ANZA CA 92539
FOR: Anza Electric Cooperative
Email: GloriaB@anzaelectric.org
Status: PARTY

DEBORAH BROCKETT CONSULTANT
NAVIGANT CONSULTING, INC.
SPEAR STREE TOWER, SUITE 1200
ONE MARKET ST
SAN FRANCISCO CA 94105
Email: dbrockett@navigantconsulting.com
Status: INFORMATION

ANDREW B. BROWN ATTORNEY
ELLISON, SCHNEIDER & HARRIS, LLP
2015 H ST
SACRAMENTO CA 95814
FOR: Constellation New Energy, Inc.
Email: abb@eslawfirm.com
Status: PARTY

NINA BUBNOVA CASE MANAGER
PACIFIC GAS AND ELECTRIC COMPANY
PO BOX 770000, MAIL CODE B9A
SAN FRANCISCO CA 94177
FOR: PACIFIC GAS AND ELECTRIC COMPANY
Email: nbb2@pge.com
Status: INFORMATION

CRAIG M. BUCHSBAUM ATTORNEY
PACIFIC GAS AND ELECTRIC COMPANY
77 BEALE ST, B30A
SAN FRANCISCO CA 94105
Email: cmb3@pge.com
Status: PARTY

THE PUBLIC UTILITIES COMMISSION OF THE STATE OF CALIFORNIA SERVICE LIST

Downloaded September 7, 2007, last updated on August 30, 2007

Commissioner Assigned: Michael R. Peevey on May 26, 2006

ALJ Assigned: Anne E. Simon on November 15, 2006; ALJ Assigned: Burton Mattson on May 26, 2006

CPUC DOCKET NO. R0605027 CPUC REV 08-30-07

Total number of addressees: 296

TRENT A. CARLSON
RELIANT ENERGY
1000 MAIN ST
HOUSTON TX 77001
Email: tcarlson@reliant.com
Status: INFORMATION

DAN L. CARROLL ATTORNEY
DOWNEY BRAND, LLP
555 CAPITOL MALL, 10TH FLR
SACRAMENTO CA 95814
FOR: Mountain Utilities
Email: dcarroll@downeybrand.com
Status: PARTY

TIMOTHY CASTILLE
LANDS ENERGY CONSULTING, INC.
18109 SE 42ND ST
VANCOUVER WA 98683
Email: castille@landsenergy.com
Status: INFORMATION

STEVE CHADIMA
ENERGY INNOVATIONS, INC.
130 WEST UNION ST
PASADENA CA 91103
Email: steve@energyinnovations.com
Status: INFORMATION

JENNIFER CHAMBERLIN
STRATEGIC ENERGY, LLC
2633 WELLINGTON CT.
CLYDE CA 94520
FOR: Strategic Energy
Email: jchamberlin@strategicenergy.com
Status: PARTY

CLIFF CHEN
UNION OF CONCERNED SCIENTIST
2397 SHATTUCK AVE, STE 203
BERKELEY CA 94704
Email: cchen@ucsusa.org
Status: INFORMATION

WILLIAM H. CHEN
CONSTELLATION NEW ENERGY, INC.
SPEAR TOWER, 36TH FLOOR
ONE MARKET ST
SAN FRANCISCO CA 94105
FOR: Constellation New Energy, Inc.
Email: bill.chen@constellation.com
Status: PARTY

ED CHIANG
ELEMENT MARKETS, LLC
ONE SUGAR CREEK CENTER BLVD., STE 250
SUGAR LAND TX 77478
Email: echiang@elementmarkets.com
Status: INFORMATION

MARY COLLINS POLICY ADVISOR TO COMMISSIONER
LIEBERMAN
ILLINOIS COMMERCE COMMISSION
160 NORTH LASALLE ST, STE. C-800
CHICAGO IL 60601
FOR: ILLINOIS COMMERCE COMMISSION
Email: mcollins@icc.illinois.gov
Status: INFORMATION

THOMAS P. CORR
SEMPRA ENERGY GLOBAL ENTERPRISES
101 ASH ST, HQ16C
SAN DIEGO CA 92101
Email: tcorr@sempra.com
Status: INFORMATION

DOUGLAS E. COVER
ENVIRONMENTAL SCIENCE ASSOCIATES
225 BUSH ST, STE 1700
SAN FRANCISCO CA 94104
Email: dcover@esassoc.com
Status: INFORMATION

BRIAN CRAGG ATTORNEY
GOODIN, MAC BRIDE, SQUERI, RITCHIE & DAY
505 SANSOME ST, STE 900
SAN FRANCISCO CA 94111
FOR: Independent Energy Producers Association
(IEPA)/Caithness Corporation
Email: bcragg@goodinmacbride.com
Status: PARTY

HOLLY B. CRONIN STATE WATER PROJECT
OPERATIONS DIV
CALIFORNIA DEPARTMENT OF WATER RESOURCES
3310 EL CAMINO AVE., LL-90
SACRAMENTO CA 95821
Email: hcronin@water.ca.gov
Status: STATE-SERVICE

JOHN DALESSI
NAVIGANT CONSULTING, INC.
3100 ZINFANDEL DRIVE, STE 600
RANCHO CORDOVA CA 95670-6078
FOR: South San Joaquin Valley/Kings River Conservation
District
Email: jdalessi@navigantconsulting.com
Status: PARTY

THE PUBLIC UTILITIES COMMISSION OF THE STATE OF CALIFORNIA SERVICE LIST

Downloaded September 7, 2007, last updated on August 30, 2007

Commissioner Assigned: Michael R. Peevey on May 26, 2006

ALJ Assigned: Anne E. Simon on November 15, 2006; ALJ Assigned: Burton Mattson on May 26, 2006

CPUC DOCKET NO. R0605027 CPUC REV 08-30-07

Total number of addressees: 296

Christopher Danforth
CALIF PUBLIC UTILITIES COMMISSION
ELECTRICITY RESOURCES & PRICING BRANCH
505 VAN NESS AVE RM 4209
SAN FRANCISCO CA 94102-3214
Email: ctd@cpuc.ca.gov
Status: STATE-SERVICE

DOUG DAVIE
DAVIE CONSULTING, LLC
3390 BEATTY DRIVE
EL DORADO HILLS CA 95762
Email: dougdpcmail@yahoo.com
Status: INFORMATION

KYLE DAVIS
PACIFICORP
825 NE MULNOMAH, STE 2000
PORTLAND OR 97232
Email: kyle.l.davis@pacificorp.com
Status: INFORMATION

NEAL DE SNOO
CITY OF BERKELEY
2180 MILVIA ST, 2ND FLR
BERKELEY CA 94704
FOR: East Bay Power Authority/City of Berkeley
Email: ndesn00@ci.berkeley.ca.us
Status: PARTY

MICHAEL DEANGELIS
SACRAMENTO MUNICIPAL UTILITY DISTRICT
6201 S ST
SACRAMENTO CA 95817-1899
FOR: SACRAMENTO MUNICIPAL UTILITY DISTRICT
Email: mdeange@smud.org
Status: INFORMATION

RALPH E. DENNIS DIRECTOR, REGULATORY AFFAIRS
FELLON-MCCORD & ASSOCIATES
CONSTELLATION NEWENERGY-GAS DIVISION
9960 CORPORATE CAMPUS DRIVE, STE 2000
LOUISVILLE KY 40223
Email: ralph.dennis@constellation.com
Status: INFORMATION

WILLIAM F. DIETRICH ATTORNEY
DIETRICH LAW
2977 YGNACIO VALLEY ROAD, 613
WALNUT CREEK CA 94598-3535
Email: dietrichlaw2@earthlink.net
Status: INFORMATION

THOMAS R. DARTON
PILOT POWER SERVICES, INC.
SUITE 112
9320 CHESAPEAKE DRIVE
SAN DIEGO CA 92123
FOR: Pilot Power Group, Inc.
Email: tdarton@pilotpowergroup.com
Status: PARTY

KEVIN DAVIES
SOLAR DEVELOPMENT INC.
2424 PROFESSIONAL DR.
ROSEVILLE CA 95661-7773
Email: kevin@solardevelop.com
Status: INFORMATION

DENNIS W. DE CUIR ATTY AT LAW
A LAW CORPORATION
2999 DOUGLAS BLVD., STE 325
ROSEVILLE CA 95661
Email: dennis@ddecuir.com
Status: INFORMATION

Matthew Deal
CALIF PUBLIC UTILITIES COMMISSION
EXECUTIVE DIVISION
505 VAN NESS AVE RM 5215
SAN FRANCISCO CA 94102-3214
Email: mjd@cpuc.ca.gov
Status: STATE-SERVICE

PAUL DELANEY
AMERICAN UTILITY NETWORK (A.U.N.)
10705 DEER CANYON DRIVE
ALTA LOMA CA 91737
FOR: American Utility Network
Email: pssed@adelphia.net
Status: PARTY

DEREK DENNISTON
THE DENNISTON GROUP, LLC
101 BELLA VISTA AVE
BELVEDERE CA 94920
FOR: THE DENNISTON GROUP, LLC
Email: DCDG@pge.com
Status: INFORMATION

TREVOR DILLARD
SIERRA PACIFIC POWER COMPANY
PO BOX 10100
6100 NEIL ROAD, MS S4A50
RENO NV 89520
Email: tdillard@sierrapacific.com
Status: INFORMATION

THE PUBLIC UTILITIES COMMISSION OF THE STATE OF CALIFORNIA SERVICE LIST

Downloaded September 7, 2007, last updated on August 30, 2007

Commissioner Assigned: Michael R. Peevey on May 26, 2006

ALJ Assigned: Anne E. Simon on November 15, 2006; ALJ Assigned: Burton Mattson on May 26, 2006

CPUC DOCKET NO. R0605027 CPUC REV 08-30-07

Total number of addressees: 296

Paul Douglas
CALIF PUBLIC UTILITIES COMMISSION
ENERGY RESOURCES BRANCH
505 VAN NESS AVE AREA 4-A
SAN FRANCISCO CA 94102-3214
Email: psd@cpuc.ca.gov
Status: STATE-SERVICE

Dorothy Duda
CALIF PUBLIC UTILITIES COMMISSION
DIVISION OF ADMINISTRATIVE LAW JUDGES
505 VAN NESS AVE RM 5109
SAN FRANCISCO CA 94102-3214
Email: dot@cpuc.ca.gov
Status: STATE-SERVICE

KIRBY DUSEL
NAVIGANT CONSULTING, INC.
3100 ZINFANDEL DRIVE, STE 600
RANCHO CORDOVA CA 95670
Email: kdusel@navigantconsulting.com
Status: PARTY

KERRY EDEN DEPARTMENT OF WATER
CITY OF CORONA DEPT. OF WATER & POWER
730 CORPORATION YARD WAY
CORONA CA 92880
Email: kerry.eden@ci.corona.ca.us
Status: PARTY

BARRY H. EPSTEIN
FITZGERALD, ABBOTT & BEARDSLEY, LLP
1221 BROADWAY, 21ST FLR
OAKLAND CA 94612
FOR: FITZGERLAND, ABBOTT & BEARDSLEY, LLP
Email: bepstein@fablaw.com
Status: INFORMATION

DIANE I. FELLMAN ATTORNEY
FPL ENERGY, LLC
234 VAN NESS AVE
SAN FRANCISCO CA 94102
Email: diane_fellman@fpl.com
Status: INFORMATION

LAW DEPARTMENT FILE ROOM
PACIFIC GAS AND ELECTRIC COMPANY
PO BOX 7442
SAN FRANCISCO CA 94120-7442
Email: cpucases@pge.com
Status: INFORMATION

DANIEL W. DOUGLASS ATTORNEY
DOUGLASS & LIDDELL
21700 OXNARD ST, STE 1030
WOODLAND HILLS CA 91367
FOR: ALLIANCE FOR RETAIL ENERGY MARKETS
Email: douglass@energyattorney.com
Status: PARTY

KEVIN DUGGAN
CALPINE COPORATION
3875 HOPYARD ROAD, STE 345
PLEASANTON CA 94588
Email: duggank@calpine.com
Status: INFORMATION

JOHN DUTCHER VICE PRESIDENT - REGULATORY
AFFAIRS
MOUNTAIN UTILITIES
3210 CORTE VALENCIA
FAIRFIELD CA 94534-7875
Email: ralf1241a@cs.com
Status: PARTY

HARVEY EDER
PUBLIC SOLAR POWER COALITION
1218 12TH ST., 25
SANTA MONICA CA 90401
Email: harveyederpspc@hotmail.com
Status: INFORMATION

SAEED FARROKHPAY
FEDERAL ENERGY REGULATORY COMMISSION
110 BLUE RAVINE RD., STE 107
FOLSOM CA 95630
Email: saeed.farrokhpay@ferc.gov
Status: INFORMATION

PAUL FENN
LOCAL POWER
4281 PIEDMONT AVE.
OAKLAND CA 94611
Email: paulfenn@local.org
Status: INFORMATION

CENTRAL FILES
SAN DIEGO GAS & ELECTRIC
8330 CENTURY PARK COURT, CP31E
SAN DIEGO CA 92123
FOR: SAN DIEGO GAS & ELELECTRIC
Email: centralfiles@semprautilities.com
Status: INFORMATION

THE PUBLIC UTILITIES COMMISSION OF THE STATE OF CALIFORNIA SERVICE LIST

Downloaded September 7, 2007, last updated on August 30, 2007

Commissioner Assigned: Michael R. Peevey on May 26, 2006

ALJ Assigned: Anne E. Simon on November 15, 2006; ALJ Assigned: Burton Mattson on May 26, 2006

CPUC DOCKET NO. R0605027 CPUC REV 08-30-07

Total number of addressees: 296

Julie A. Fitch
CALIF PUBLIC UTILITIES COMMISSION
DIVISION OF STRATEGIC PLANNING
505 VAN NESS AVE RM 5119
SAN FRANCISCO CA 94102-3214
Email: jf2@cpuc.ca.gov
Status: STATE-SERVICE

Thomas Flynn
CALIF PUBLIC UTILITIES COMMISSION
ENERGY RESOURCES BRANCH
770 L ST, STE 1050
SACRAMENTO CA 95814
Email: trf@cpuc.ca.gov
Status: STATE-SERVICE

BRIAN C. FRECKMANN
C/O FOUNDATION PARTNERS
100 DRAKES LANDING ROAD, NO. 125
GREENBRAE CA 94904
Email: brian@banyansec.com
Status: INFORMATION

CLARE LAUFENBER GALLARDO
CALIFORNIA ENERGY COMMISSION
1516 NINTH ST, MS-46
SACRAMENTO CA 95814
Email: claufenb@energy.state.ca.us
Status: STATE-SERVICE

ROBERT B. GEX ATTORNEY,
DAVIS WRIGHT TREMAINE LLP
505 MONTGOMERY ST, STE 800
SAN FRANCISCO CA 94111-6533
Email: bobgex@dwt.com
Status: INFORMATION

Anne Gillette
CALIF PUBLIC UTILITIES COMMISSION
ENERGY RESOURCES BRANCH
505 VAN NESS AVE AREA 4-A
SAN FRANCISCO CA 94102-3214
Email: aeg@cpuc.ca.gov
Status: STATE-SERVICE

RAMONA GONZALEZ
EAST BAY MUNICIPAL UTILITY DISTRICT
375 ELEVENTH ST, M/S NO. 205
OAKLAND CA 94607
Email: ramonag@ebmud.com
Status: INFORMATION

RYAN FLYNN
PACIFICORP
825 NE MULTNOMAH ST, 18TH FLR
PORTLAND OR 97232
Email: ryan.flynn@pacificorp.com
Status: PARTY

BRUCE FOSTER VICE PRESIDENT
SOUTHERN CALIFORNIA EDISON COMPANY
601 VAN NESS AVE, STE. 2040
SAN FRANCISCO CA 94102
Email: bruce.foster@sce.com
Status: PARTY

SUSAN FREEDMAN
SAN DIEGO REGIONAL ENERGY OFFICE
8520 TECH WAY, STE 110
SAN DIEGO CA 92123
Email: susan.freedman@sdenergy.org
Status: INFORMATION

DAN GEIS
THE DOLPHIN GROUP
925 L ST, STE 800
SACRAMENTO CA 95814
FOR: Inland Empire Utilities Agency
Email: dgeis@dolphingroup.org
Status: PARTY

JEDEDIAH J. GIBSON
ELLISON SCHNEIDER & HARRIS LLP
2015 H ST
SACRAMENTO CA 95811
Email: jjg@eslawfirm.com
Status: INFORMATION

MICHAEL J. GILMORE
INLAND ENERGY
SOUTH TOWER SUITE 606
3501 JAMBOREE RD
NEWPORT BEACH CA 92660
Email: michaelgilmore@inlandenergy.com
Status: INFORMATION

JEFFREY P. GRAY ATTORNEY
DAVIS WRIGHT TREMAINE, LLP
505 MONTGOMERY ST, STE 800
SAN FRANCISCO CA 94111-6533
FOR: Calpine Power America-CA, llc
Email: jeffgray@dwt.com
Status: PARTY

THE PUBLIC UTILITIES COMMISSION OF THE STATE OF CALIFORNIA SERVICE LIST

Downloaded September 7, 2007, last updated on August 30, 2007

Commissioner Assigned: Michael R. Peevey on May 26, 2006

ALJ Assigned: Anne E. Simon on November 15, 2006; ALJ Assigned: Burton Mattson on May 26, 2006

CPUC DOCKET NO. R0605027 CPUC REV 08-30-07

Total number of addressees: 296

JOE GRECO
CAITHNESS OPERATING COMPANY
9590 PROTOTYPE COURT, STE 200
RENO NV 89521
Email: jgreco@caithnessenergy.com
Status: INFORMATION

DANIEL V. GULINO
RIDGEWOOD POWER MANAGEMENT, LLC
947 LINWOOD AVE
RIDGEWOOD NJ 7450
FOR: RIDGEWOOD POWER MANAGEMENT, LLC
Email: dgulino@ridgewoodpower.com
Status: PARTY

ROB GUNNIN VICE PRESIDENT SUPPLY
COMMERCE ENERGY, INC.
600 ANTON BLVD., STE 2000
COSTA MESA CA 92626
Email: rgunnin@commerceenergy.com
Status: PARTY

Julie Halligan
CALIF PUBLIC UTILITIES COMMISSION
CONSUMER PROTECTION AND SAFETY DIVISION
505 VAN NESS AVE RM 2203
SAN FRANCISCO CA 94102-3214
Email: jmh@cpuc.ca.gov
Status: STATE-SERVICE

TOM HAMILTON MANAGING PARTNER
ENERGY CONCIERGE SERVICES
321 MESA LILA RD
GLENDALE CA 91208
Email: THAMILTON5@CHARTER.NET
Status: INFORMATION

JANICE G. HAMRIN
CENTER FOR RESOURCE SOLUTIONS
PRESIDIO BUILDING 97
PO BOX 29512
SAN FRANCISCO CA 94129
FOR: CENTER FOR RESOURCE SOLUTIONS
Email: jhamrin@resource-solutions.org
Status: PARTY

PETER W. HANSCHEN ATTORNEY
MORRISON & FOERSTER, LLP
101 YGNACIO VALLEY ROAD, STE 450
WALNUT CREEK CA 94596
Email: phanschen@mofo.com
Status: INFORMATION

ARNO HARRIS
RECURRENT ENERGY, INC.
220 HALLECK ST., STE 220
SAN FRANCISCO CA 94129
Email: arno@recurrentenergy.com
Status: PARTY

FRANK W. HARRIS REGULATORY ECONOMIST
SOUTHERN CALIFORNIA EDISON
2244 WALNUT GROVE
ROSEMEAD CA 91770
FOR: SOUTHERN CALIFORNIA EDISON
Email: frank.w.harris@sce.com
Status: INFORMATION

ARTHUR HAUBENSTOCK ATTORNEY
PACIFIC GAS AND ELECTRIC COMPANY
77 BEALE ST, B30A
SAN FRANCISCO CA 94105
FOR: Pacific Gas and Electric Company
Email: alhj@pge.com
Status: PARTY

LYNN M. HAUG ATTORNEY
ELLISON, SCHNEIDER & HARRIS, LLP
2015 H ST
SACRAMENTO CA 95814-3512
FOR: Corona Department of Water and Power
Email: lmh@eslawfirm.com
Status: PARTY

MARCEL HAWIGER ATTORNEY
THE UTILITY REFORM NETWORK
711 VAN NESS AVE, STE 350
SAN FRANCISCO CA 94102
Email: marcel@turn.org
Status: PARTY

ANN HENDRICKSON
COMMERCE ENERGY, INC.
222 WEST LAS COLINAS BLVD., STE 950E
IRVING TX 75039
Email: ahendrickson@commerceenergy.com
Status: INFORMATION

SETH D. HILTON
STOEL RIVES
111 SUTTER ST., STE 700
SAN FRANCISCO CA 94104
Email: sdhilton@stoel.com
Status: INFORMATION

THE PUBLIC UTILITIES COMMISSION OF THE STATE OF CALIFORNIA SERVICE LIST

Downloaded September 7, 2007, last updated on August 30, 2007

Commissioner Assigned: Michael R. Peevey on May 26, 2006

ALJ Assigned: Anne E. Simon on November 15, 2006; ALJ Assigned: Burton Mattson on May 26, 2006

CPUC DOCKET NO. R0605027 CPUC REV 08-30-07

Total number of addressees: 296

LENNY HOCHSCHILD EVOLUTION MARKETS, LLC
RENEWABLE ENERGY MARKETS
425 MARKET ST, STE 2200
SAN FRANCISCO CA 94105
FOR: RENEWABLE ENERGY MARKETS
Email: lennyh@evomarkets.com
Status: INFORMATION

DAVID L. HUARD ATTORNEY
MANATT, PHELPS & PHILLIPS, LLP
11355 WEST OLYMPIC BLVD
LOS ANGELES CA 90064
FOR: MANATT, PHELPS & PHILLIPS, LLP
Email: dhuard@manatt.com
Status: PARTY

CAROL J. HURLOCK
CALIFORNIA DEPT. OF WATER RESOURCES
JOINT OPERATIONS CENTER
3310 EL CAMINO AVE. RM 300
SACRAMENTO CA 95821
Email: hurlock@water.ca.gov
Status: INFORMATION

MWIRIGI IMUNGI
THE ENERGY COALITION
15615 ALTON PARKWAY, STE 245
IRVINE CA 92618
Email: Mlungi@energycoalition.org
Status: INFORMATION

TODD JAFFE ENERGY BUSINESS BROKERS AND
CONSULTANTS
3420 KEYSER ROAD
BALTIMORE MD 21208
Email: tjaffe@energybusinessconsultants.com
Status: INFORMATION

EVELYN KAHL ATTORNEY
ALCANTAR & KAHL, LLP
120 MONTGOMERY ST, STE 2200
SAN FRANCISCO CA 94104
FOR: Occidental Power Services, Inc.
Email: ek@a-klaw.com
Status: PARTY

CATHY A. KARLSTAD
SOUTHERN CALIFORNIA EDISON COMPANY
2244 WALNUT GROVE AVE.
ROSEMEAD CA 91770
FOR: Southern California Edison Company
Email: cathy.karlstad@sce.com
Status: PARTY

JOHN B. HOFMANN
REGIONAL COUNCIL OF RURAL COUNTIES
801 12TH ST, STE 600
SACRAMENTO CA 95814
FOR: Regional Council of Rural Counties
Email: jhofmann@rcrcnet.org
Status: PARTY

TAMLYN M. HUNT ENERGY PROGRAM DIRECTOR
COMMUNITY ENVIRONMENTAL COUNCIL
26 W. ANAPAMU ST., 2/F
SANTA BARBARA CA 93101
FOR: COMMUNITY ENVIRONMENTAL COUNCIL
Email: thunt@cecmail.org
Status: PARTY

MICHAEL A. HYAMS POWER ENTERPRISE-
REGULATORY AFFAIRS
SAN FRANCISCO PUBLIC UTILITIES COMM
1155 MARKET ST., 4TH FLR
SAN FRANCISCO CA 94103
Email: mhyams@sfwater.org
Status: INFORMATION

JONATHAN JACOBS
PA CONSULTING GROUP
390 INTERLOCKEN CRESCENT, STE 410
BROOMFIELD CO 80021
Email: jon.jacobs@paconsulting.com
Status: INFORMATION

MARC D. JOSEPH ATTORNEY
ADAMS, BROADWELL, JOSEPH & CARDOZO
601 GATEWAY BLVD., STE. 1000
SOUTH SAN FRANCISCO CA 94080
FOR: ADAMS BROADWELL JOSEPH & CARDOZO
Email: mdjoseph@adamsbroadwell.com
Status: INFORMATION

Sara M. Kamins
CALIF PUBLIC UTILITIES COMMISSION
ENERGY RESOURCES BRANCH
505 VAN NESS AVE AREA 4-A
SAN FRANCISCO CA 94102-3214
Email: smk@cpuc.ca.gov
Status: STATE-SERVICE

JOSEPH M. KARP ATTORNEY
WINSTON & STRAWN LLP
101 CALIFORNIA ST
SAN FRANCISCO CA 94111-5802
FOR: California Wind Energy Association
Email: jkarp@winston.com
Status: PARTY

THE PUBLIC UTILITIES COMMISSION OF THE STATE OF CALIFORNIA SERVICE LIST

Downloaded September 7, 2007, last updated on August 30, 2007

Commissioner Assigned: Michael R. Peevey on May 26, 2006

ALJ Assigned: Anne E. Simon on November 15, 2006; ALJ Assigned: Burton Mattson on May 26, 2006

CPUC DOCKET NO. R0605027 CPUC REV 08-30-07

Total number of addressees: 296

RANDALL W. KEEN ATTORNEY
MANATT PHELPS & PHILLIPS, LLP
11355 WEST OLYMPIC BLVD.
LOS ANGELES CA 90064
FOR: MANATT PHELPS & PHILLIPS, LLP
Email: rkeen@manatt.com
Status: PARTY

STEVEN KELLY POLICY DIRECTOR
INDEPENDENT ENERGY PRODUCERS ASSN
1215 K ST, STE 900
SACRAMENTO CA 95814
Email: steven@iepa.com
Status: INFORMATION

NIELS KJELLUND
PACIFIC GAS AND ELECTRIC COMPANY
77 BEALE ST, MAIL CODE B9A
SAN FRANCISCO CA 94105-1814
Email: nxk2@pge.com
Status: INFORMATION

GARSON KNAPP
FPL ENERGY, LLC
770 UNIVERSE BLVD.
JUNO BEACH FL 33408
Email: garson_knapp@fpl.com
Status: PARTY

SUZANNE KOROSEC
CALIFORNIA ENERGY COMMISSION
MS-31
1516 9TH ST
SACRAMENTO CA 95184
Email: skorosec@energy.state.ca.us
Status: STATE-SERVICE

EDWARD V. KURZ ATTORNEY
PACIFIC GAS AND ELECTRIC COMPANY
PO BOX 7442
77 BEALE ST., MAIL CODE B30A
SAN FRANCISCO CA 94105
Email: evk1@pge.com
Status: PARTY

PAUL LACOURCIERE ATTORNEY
THELEN REID BROWN RAYSMAN & STEINER LLP
101 SECOND ST, STE 1800
SAN FRANCISCO CA 94105
Email: placourciere@thelen.com
Status: INFORMATION

CAROLYN KEHREIN
ENERGY MANAGEMENT SERVICES
1505 DUNLAP COURT
DIXON CA 95620-4208
FOR: Energy Users Forum
Email: cmkehrein@ems-ca.com
Status: PARTY

DOUGLAS K. KERNER ATTORNEY
ELLISON, SCHNEIDER & HARRIS, LLP
2015 H ST
SACRAMENTO CA 95814
FOR: ELLISON, SCHNEIDER & HARRIS LLP
Email: dkk@eslawfirm.com
Status: INFORMATION

GREGORY S. G. KLATT
DOUGLASS & LIDDELL
21700 OXNARD ST, STE 1030
WOODLAND HILLS CA 91367-8102
FOR: Alliance for Retail Energy Markets
Email: klatt@energyattorney.com
Status: PARTY

BILL KNOX
CALIFORNIA ENERGY COMMISSION
1516 NINTH ST, MS 45
SACRAMENTO CA 95814-5504
Email: bknox@energy.state.ca.us
Status: STATE-SERVICE

AVIS KOWALEWSKI
CALPINE CORPORATION
3875 HOPYARD ROAD, STE 345
PLEASANTON CA 94588
FOR: CalpinePowerAmerica-CA,LLC
Email: kowalewskia@calpine.com
Status: PARTY

STEPHANIE LA SHAWN
PACIFIC GAS AND ELECTRIC COMPANY
PO BOX 770000, MAIL CODE B9A
SAN FRANCISCO CA 94177
Email: S1L7@pge.com
Status: INFORMATION

JOSEPH LANGENBERG
CENTRAL CALIFORNIA POWER
949 EAST ANNADALE AVE., A210
FRESNO CA 93706
Email: Joe.Langenberg@gmail.com
Status: PARTY

THE PUBLIC UTILITIES COMMISSION OF THE STATE OF CALIFORNIA SERVICE LIST

Downloaded September 7, 2007, last updated on August 30, 2007

Commissioner Assigned: Michael R. Peevey on May 26, 2006

ALJ Assigned: Anne E. Simon on November 15, 2006; ALJ Assigned: Burton Mattson on May 26, 2006

CPUC DOCKET NO. R0605027 CPUC REV 08-30-07

Total number of addressees: 296

ERIC LARSEN ENVIRONMENTAL SCIENTIST
RCM INTERNATIONAL
PO BOX 4716
BERKELEY CA 94704
FOR: RCM International
Email: elarsen@rcmdigesters.com
Status: PARTY

CLARE LAUFENBERG
CALIFORNIA ENERGY COMMISSION
1516 NINTH ST, MS 46
SACRAMENTO CA 95814
Email: claufenb@energy.state.ca.us
Status: STATE-SERVICE

EVELYN C. LEE ATTORNEY
PACIFIC GAS AND ELECTRIC COMPANY
77 BEALE ST, MAIL DROP 30A
SAN FRANCISCO CA 94105
FOR: PACIFIC GAS AND ELECTRIC COMPANY
Email: ecl8@pge.com
Status: PARTY

CONSTANCE LENI
CALIFORNIA ENERGY COMMISSION
MS-20
1516 NINTH ST
SACRAMENTO CA 95814
Email: cleni@energy.state.ca.us
Status: STATE-SERVICE

Ellen S. LeVine
CALIF PUBLIC UTILITIES COMMISSION
LEGAL DIVISION
505 VAN NESS AVE RM 5028
SAN FRANCISCO CA 94102-3214
Email: esl@cpuc.ca.gov
Status: STATE-SERVICE

RONALD LIEBERT ATTORNEY
CALIFORNIA FARM BUREAU FEDERATION
2300 RIVER PLAZA DRIVE
SACRAMENTO CA 95833
Email: rliebert@cfbf.com
Status: INFORMATION

KAREN LINDH
LINDH & ASSOCIATES
7909 WALERGA ROAD, NO. 112, PMB 119
ANTELOPE CA 95843
Email: karen@klindh.com
Status: INFORMATION

RICH LAUCKHART
GLOBAL ENERGY
SUITE 200
2379 GATEWAY OAKS DR.
SACRAMENTO CA 95833
Email: rlauckhart@globalenergy.com
Status: INFORMATION

JUDE LEBLANC
BAKER & HOSTETLER LLP
600 ANTON BLVD., STE 900
COSTA MESA CA 92626
FOR: BAKER & HOSTETLER LLP
Email: jleblanc@bakerlaw.com
Status: INFORMATION

BRENDA LEMAY DIRECTOR OF PROJECT
DEVELOPMENT
HORIZON WIND ENERGY
1600 SHATTUCK, STE 222
BERKELEY CA 94709
Email: brenda.lemay@horizonwind.com
Status: INFORMATION

JOHN W. LESLIE ATTORNEY
LUCE, FORWARD, HAMILTON & SCRIPPS, LLP
11988 EL CAMINO REAL, STE 200
SAN DIEGO CA 92130-2592
Email: jleslie@luce.com
Status: INFORMATION

DONALD C. LIDDELL ATTORNEY
DOUGLASS & LIDDELL
2928 2ND AVE
SAN DIEGO CA 92103
FOR: Stirling Energy Systems
Email: liddell@energyattorney.com
Status: PARTY

JANICE LIN MANAGING PARTNER
STRATEGEN CONSULTING LLC
146 VICENTE ROAD
BERKELEY CA 94705
Email: janice@strategenconsulting.com
Status: INFORMATION

GRACE LIVINGSTON-NUNLEY ASSISTANT PROJECT
MANAGER
PACIFIC GAS AND ELECTRIC COMPANY
PO BOX 770000 MAIL CODE B9A
SAN FRANCISCO CA 94177
Email: gxl2@pge.com
Status: INFORMATION

THE PUBLIC UTILITIES COMMISSION OF THE STATE OF CALIFORNIA SERVICE LIST

Downloaded September 7, 2007, last updated on August 30, 2007

Commissioner Assigned: Michael R. Peevey on May 26, 2006

ALJ Assigned: Anne E. Simon on November 15, 2006; ALJ Assigned: Burton Mattson on May 26, 2006

CPUC DOCKET NO. R0605027 CPUC REV 08-30-07

Total number of addressees: 296

JODY LONDON
JODY LONDON CONSULTING
PO BOX 3629
OAKLAND CA 94609
FOR: Sustainable Conservation and RCM International
Email: jody_london_consulting@earthlink.net
Status: PARTY

ED LUCHA
PACIFIC GAS AND ELECTRIC COMPANY
77 BEALE ST, MAIL CODE B9A
SAN FRANCISCO CA 94105
Email: ell5@pge.com
Status: INFORMATION

LYNELLE LUND
COMMERCE ENERGY, INC.
600 ANTON BLVD., STE 2000
COSTA MESA CA 92626
Email: llund@commerceenergy.com
Status: PARTY

Jaclyn Marks
CALIF PUBLIC UTILITIES COMMISSION
EXECUTIVE DIVISION
505 VAN NESS AVE RM 5306
SAN FRANCISCO CA 94102-3214
Email: jm3@cpuc.ca.gov
Status: STATE-SERVICE

Burton Mattson
CALIF PUBLIC UTILITIES COMMISSION
DIVISION OF ADMINISTRATIVE LAW JUDGES
505 VAN NESS AVE RM 5104
SAN FRANCISCO CA 94102-3214
Email: bwm@cpuc.ca.gov
Status: STATE-SERVICE

MICHAEL MAZUR CHIEF TECHNICAL OFFICER
3 PHASES RENEWABLES, LLC
2100 SEPULVEDA BLVD., STE 37
MANHATTAN BEACH CA 90266
Email: mmazur@3phasesRenewables.com
Status: PARTY

RICHARD MCCANN
M.CUBED
2655 PORTAGE BAY ROAD, STE 3
DAVIS CA 95616
Email: rmccann@umich.edu
Status: INFORMATION

Mark R. Loy
CALIF PUBLIC UTILITIES COMMISSION
ENERGY COST OF SERVICE & NATURAL GAS BRANCH
505 VAN NESS AVE RM 4205
SAN FRANCISCO CA 94102-3214
Email: mrl@cpuc.ca.gov
Status: STATE-SERVICE

JANE E. LUCKHARDT ATTORNEY
DOWNEY BRAND LLP
555 CAPITOL MALL, 10TH FLR
SACRAMENTO CA 95814
Email: jluckhardt@downeybrand.com
Status: INFORMATION

CHARLES MANZUK
SAN DIEGO GAS & ELECTRIC
8330 CENTURY PARK COURT, CP 32D
SAN DIEGO CA 92123
Email: cmanzuk@semprautilities.com
Status: INFORMATION

TIM MASON
1000 FRESNO AVE.
BERKELEY CA 94707
Email: timmason@comcast.net
Status: INFORMATION

CHRISTOPHER J. MAYER
MODESTO IRRIGATION DISTRICT
PO BOX 4060
MODESTO CA 95352-4060
Email: chrism@mid.org
Status: INFORMATION

KEITH MC CREA ATTORNEY
SUTHERLAND, ASBILL & BRENNAN
1275 PENNSYLVANIA AVE, NW
WASHINGTON DC 20004-2415
FOR: CA Manufacturers & Technology Assn.
Email: keith.mccrea@sablaw.com
Status: PARTY

KARLY MCCRORY
SOLAR DEVELOPMENT
2424 PROFESSIONAL DRIVE
ROSEVILLE CA 95677
Email: karly@solardevelop.com
Status: INFORMATION

THE PUBLIC UTILITIES COMMISSION OF THE STATE OF CALIFORNIA SERVICE LIST

Downloaded September 7, 2007, last updated on August 30, 2007

Commissioner Assigned: Michael R. Peevey on May 26, 2006

ALJ Assigned: Anne E. Simon on November 15, 2006; ALJ Assigned: Burton Mattson on May 26, 2006

CPUC DOCKET NO. R0605027 CPUC REV 08-30-07

Total number of addressees: 296

LIZBETH MCDANNEL
2244 WALNUT GROVE AVE., QUAD 4D
ROSEMEAD CA 91770
Email: lizbeth.mcdannel@sce.com
Status: INFORMATION

KAREN MCDONALD
POWEREX CORPORATION
1400,
666 BURRAND ST
VANCOUVER BC V6C 2X8 CANADA
FOR: Powerex Corporation
Email: karen.mcdonald@powerex.com
Status: PARTY

JAN MCFARLAND
AMERICANS FOR SOLAR POWER
1100 11TH ST, STE 323
SACRAMENTO CA 95814
FOR: Americans for Solar Power
Email: janmcfar@sonic.net
Status: PARTY

JEANNE MCKINNEY
THELEN REID BROWN RAYSMAN & STEINER
101 SECOND ST, STE 1800
SAN FRANCISCO CA 94105
Status: PARTY

BRUCE MCLAUGHLIN ATTORNEY
BRAUN & BLAISING P.C.
915 L ST, STE 1420
SACRAMENTO CA 95814
FOR: BRAUN & BLAISING P.C.
Email: mclaughlin@braunlegal.com
Status: INFORMATION

JAMES MCMAHON SENIOR ENGAGEMENT MANAGER
NAVIGANT CONSULTING, INC.
3100 ZINFANDEL DRIVE, STE 600
RANCHO CORDOVA CA 95670-6078
FOR: California Department of Water Resources
Email: JMcMahon@navigantconsulting.com
Status: STATE-SERVICE

RACHEL MCMAHON
CEERT
1100 11TH ST, STE 311
SACRAMENTO CA 95814
Email: rachel@ceert.org
Status: INFORMATION

JACK MCNAMARA ATTORNEY
MACK ENERGY COMPANY
PO BOX 1380
AGOURA HILLS CA 91376-1380
Email: jackmack@suesec.com
Status: INFORMATION

MICHAEL MEACHAM ENVIRONMENTAL RESOURCE
MANAGER
CITY OF CHULA VISTA
276 FOURTH AVE
CHULA VISTA CA 91910
Status: PARTY

ELENA MELLO
SIERRA PACIFIC POWER COMPANY
6100 NEIL ROAD
RENO NV 89520
Email: emello@sppc.com
Status: INFORMATION

CHARLES MIDDLEKAUFF ATTORNEY
PACIFIC GAS AND ELECTRIC COMPANY
77 BEALE ST
SAN FRANCISCO CA 94105
FOR: Pacific Gas and Electric Company
Email: crmd@pge.com
Status: PARTY

ROSS MILLER
CALIFORNIA ENERGY COMMISSION
1516 9TH ST
SACRAMENTO CA 95814
Email: rmiller@energy.state.ca.us
Status: STATE-SERVICE

KAREN NORENE MILLS ATTORNEY
CALIFORNIA FARM BUREAU FEDERATION
2300 RIVER PLAZA DRIVE
SACRAMENTO CA 95833
Email: kmills@cfbf.com
Status: PARTY

MARCIE MILNER
CORAL POWER, L.L.C.
4445 EASTGATE MALL, STE 100
SAN DIEGO CA 92121
Email: mmilner@coral-energy.com
Status: PARTY

THE PUBLIC UTILITIES COMMISSION OF THE STATE OF CALIFORNIA SERVICE LIST

Downloaded September 7, 2007, last updated on August 30, 2007

Commissioner Assigned: Michael R. Peevey on May 26, 2006

ALJ Assigned: Anne E. Simon on November 15, 2006; ALJ Assigned: Burton Mattson on May 26, 2006

CPUC DOCKET NO. R0605027 CPUC REV 08-30-07

Total number of addressees: 296

MICHAEL D. MONTOYA ATTORNEY
SOUTHERN CALIFORNIA EDISON COMPANY
2244 WALNUT GROVE AVE
ROSEMEAD CA 91770
FOR: Southern California Edison Company
Email: mike.montoya@sce.com
Status: PARTY

RONALD MOORE
GOLDEN STATE WATER/BEAR VALLEY ELECTRIC
630 EAST FOOTHILL BLVD
SAN DIMAS CA 91773
Email: rkmoore@gswater.com
Status: PARTY

STEPHEN A.S. MORRISON ATTORNEY
CITY AND COUNTY OF SAN FRANCISCO
1 DR. CARLTON B. GOODLETT PLACE, RM 234
SAN FRANCISCO CA 94102
FOR: City of San Francisco
Email: stephen.morrison@sfgov.org
Status: PARTY

Jay Morse
CALIF PUBLIC UTILITIES COMMISSION
ENERGY RESOURCES BRANCH
505 VAN NESS AVE RM 4209
SAN FRANCISCO CA 94102-3214
Email: jxm@cpuc.ca.gov
Status: STATE-SERVICE

CLYDE MURLEY
1031 ORDWAY ST
ALBANY CA 94706
Email: clyde.murley@comcast.net
Status: PARTY

SARA STECK MYERS
LAW OFFICES OF SARA STECK MYERS
122 28TH AVE.
SAN FRANCISCO CA 94121
FOR: Center for Energy Efficiency and Renewable
Technologies
Email: ssmyers@worldnet.att.net
Status: PARTY

ROBERT NICHOLS
NEW WEST ENERGY
MAILING STATION ISB 665
BOX 61868
PHOENIX AZ 85082-1868
Email: rsnichol@srpnet.com
Status: PARTY

ANN MOORE
CITY OF CHULA VISTA
276 FOURTH AVE
CHULA VISTA CA 91910
FOR: The City of Chula Vista
Email: amoore@ci.chula-vista.ca.us
Status: PARTY

GREGG MORRIS
GREEN POWER INSTITUTE
2039 SHATTUCK AVE., STE 402
BERKELEY CA 94704
FOR: Green Power Inst.
Email: gmorris@emf.net
Status: PARTY

DAVID MORSE
1411 W. COVELL BLVD., STE 106-292
DAVIS CA 95616-5934
Email: demorse@omsoft.com
Status: INFORMATION

SUSAN MUNVES ENERGY AND GREEN BLDG. PROG.
ADMIN.
CITY OF SANTA MONICA
1212 5TH ST, FIRST FLR
SANTA MONICA CA 90401
Email: susan.munves@smgov.net
Status: PARTY

MEGAN MACNEIL MYERS ATTORNEY
LAW OFFICES OF MEGAN MACNEIL MYERS
PO BOX 638
LAKEPORT CA 95453
FOR: Americans for Solar Power
Email: meganmmyers@yahoo.com
Status: PARTY

JESSICA NELSON
PLUMAS-SIERRA RURAL ELECTRIC CO-OP
73233 STATE ROUTE 70, STE A
PORTOLA CA 96122-7064
Email: notice@psrec.coop
Status: PARTY

DESPINA NIEHAUS
SAN DIEGO GAS AND ELECTRIC COMPANY
8330 CENTURY PARK COURT, CP32H
SAN DIEGO CA 92123-1530
Email: dniehaus@semprautilities.com
Status: INFORMATION

THE PUBLIC UTILITIES COMMISSION OF THE STATE OF CALIFORNIA SERVICE LIST

Downloaded September 7, 2007, last updated on August 30, 2007

Commissioner Assigned: Michael R. Peevey on May 26, 2006

ALJ Assigned: Anne E. Simon on November 15, 2006; ALJ Assigned: Burton Mattson on May 26, 2006

CPUC DOCKET NO. R0605027 CPUC REV 08-30-07

Total number of addressees: 296

RICK C. NOGER
PRAXAIR PLAINFIELD, INC.
2711 CENTERVILLE ROAD, STE 400
WILMINGTON DE 19808
Email: rick_noger@praxair.com
Status: PARTY

CHRISTOPHER O'BRIEN SHARP SOLAR
VP STRATEGY AND GOVERNMENT RELATIONS
3808 ALTON PLACE NW
WASHINGTON DC 20016
FOR: SHARP SOLAR SYSTEMS DIVISION
Email: obrienc@sharpsec.com
Status: INFORMATION

KARLEEN O'CONNOR
WINSTON & STRAWN LLP
101 CALIFORNIA ST
SAN FRANCISCO CA 94111
Email: koconnor@winston.com
Status: INFORMATION

DAVID OLIVARES ELECTRIC RESOURCE
MODESTO IRRIGATION DISTRICT
PO BOX 4060
MODESTO CA 95352
FOR: Electric Resource Planning and Development
Modesto Irrigation District
Email: davido@mid.org
Status: INFORMATION

DAVID ORTH
KINGS RIVER CONSERVATION DISTRICT
4886 EAST JENSEN AVE
FRESNO CA 93725
FOR: Kings River Conservation District
Email: dorth@krcd.org
Status: PARTY

DAI OWEN
607 VIA CASITAS
GREENBRAE CA 94904
Email: downen@ma.org
Status: INFORMATION

LAURIE PARK
NAVIGANT CONSULTING, INC.
3100 ZINFANDEL DRIVE, STE 600
RANCHO CORDOVA CA 95670-6078
FOR: NAVIGANT CONSULTING, INC.
Email: lpark@navigantconsulting.com
Status: INFORMATION

Noel Obiora
CALIF PUBLIC UTILITIES COMMISSION
LEGAL DIVISION
505 VAN NESS AVE RM 4107
SAN FRANCISCO CA 94102-3214
Email: nao@cpuc.ca.gov
Status: STATE-SERVICE

SUSAN M. O'BRIEN
MCCARTHY & BERLIN, LLP
100 PARK CENTER PLAZA, STE 501
SAN JOSE CA 95113
Email: sobrien@mccarthyllp.com
Status: INFORMATION

STANDISH O'GRADY
FRIENDS OF KIRKWOOD ASSOCIATION
31 PARKER AVE
SAN FRANCISCO CA 94118
Email: sho@ogrady.us
Status: INFORMATION

DAVID OLIVER
NAVIGANT CONSULTING
3100 ZINFANDEL DRIVE, STE 600
RANCHO CORDOVA CA 95670
Email: david.oliver@navigantconsulting.com
Status: INFORMATION

FREDERICK M. ORTLIEB OFFICE OF CITY ATTORNEY
CITY OF SAN DIEGO
1200 THIRD AVE, STE 1100
SAN DIEGO CA 92101
FOR: CITY OF SAN DIEGO
Email: fortlieb@sandiego.gov
Status: PARTY

JOHN PAPPAS UTILITY ELECTRIC PORTFOLIO
MANAGEMENT
PACIFIC GAS AND ELECTRIC COMPANY
77 BEALE ST, N12E
SAN FRANCISCO CA 94105
Email: jsp5@pge.com
Status: INFORMATION

JUDY PAU
DAVIS WRIGHT TREMAINE LLP
505 MONTGOMERY ST, STE 800
SAN FRANCISCO CA 94111-6533
Email: judypau@dwt.com
Status: INFORMATION

THE PUBLIC UTILITIES COMMISSION OF THE STATE OF CALIFORNIA SERVICE LIST

Downloaded September 7, 2007, last updated on August 30, 2007

Commissioner Assigned: Michael R. Peevey on May 26, 2006

ALJ Assigned: Anne E. Simon on November 15, 2006; ALJ Assigned: Burton Mattson on May 26, 2006

CPUC DOCKET NO. R0605027 CPUC REV 08-30-07

Total number of addressees: 296

CARL PECHMAN
POWER ECONOMICS
901 CENTER ST
SANTA CRUZ CA 95060
Email: cpechman@powereconomics.com
Status: INFORMATION

JANIS C. PEPPER
CLEAN POWER MARKETS, INC.
PO BOX 3206
LOS ALTOS CA 94024
FOR: CLEAN POWER MARKETS, INC.
Email: pepper@cleanpowermarkets.com
Status: PARTY

JACK PIGOTT
GEN 3 SOLAR, INC.
31302 HUNTSWOOD AVE
HAYWARD CA 94544
Email: jpigott@gen3solar.com
Status: INFORMATION

RYAN PLETKA RENEWABLE ENERGY PROJECT
MANAGER
BLACK & VEATCH
11401 LAMAR
OVERLAND PARK KS 66211
FOR: BLACK & VEATCH
Email: pletkarj@bv.com
Status: INFORMATION

SNULLER PRICE
ENERGY AND ENVIRONMENTAL ECONOMICS
101 MONTGOMERY, STE 1600
SAN FRANCISCO CA 94104
FOR: ENERGY AND ENVIRONMENTAL ECONOMICS
Email: snuller@ethree.com
Status: INFORMATION

NICOLAS PROCOS
ALAMEDA POWER & TELECOM
2000 GRAND ST
ALAMEDA CA 94501-0263
FOR: Utility Analyst
Email: procos@alamedapt.com
Status: INFORMATION

NANCY RADER
CALIFORNIA WIND ENERGY ASSOCIATION
2560 NINTH ST, STE 213A
BERKELEY CA 94710
FOR: California Wind Energy Association
Email: nrader@calwea.org
Status: PARTY

NORMAN A. PEDERSEN
HANNA AND MORTON LLP
444 S FLOWER ST., STE 1500
LOS ANGELES CA 90071-2916
FOR: Southern California Generation Coalition
Email: npedersen@hanmor.com
Status: PARTY

GABE PETLIN
3DEGREES
PRESIDIO OF SAN FRANCISCO
6 FUNSTON AVE
SAN FRANCISCO CA 94129
Email: gpetlin@3degreesinc.com
Status: PARTY

WILL PLAXICO
HELIOS ENERGY, LLC
31897 DEL OBISPO ST. STE 220
SAN JUAN CAPISTRANO CA 92675
Email: wplaxico@heliosenergy.us
Status: PARTY

KEVIN PORTER
EXETER ASSOCIATES, INC.
SUITE 310
5565 STERRETT PLACE
COLUMBIA MD 21044
Email: porter@exeterassociates.com
Status: INFORMATION

RASHA PRINCE
SOUTHERN CALIFORNIA GAS COMPANY
555 WEST 5TH ST, GT14D6
LOS ANGELES CA 90013
FOR: San Diego Gas & Electric
Email: rprince@semprautilities.com
Status: PARTY

MARC PRYOR
CALIFORNIA ENERGY COMMISSION
1516 9TH ST, MS 20
SACRAMENTO CA 95814
Email: mpryor@energy.state.ca.us
Status: STATE-SERVICE

HEATHER RAITT
CALIFORNIA ENERGY COMMISSION
1516 9TH ST, MS 45
SACRAMENTO CA 95814
FOR: CALIFORNIA ENERGY COMMISSION
Email: hraitt@energy.state.ca.us
Status: STATE-SERVICE

THE PUBLIC UTILITIES COMMISSION OF THE STATE OF CALIFORNIA SERVICE LIST

Downloaded September 7, 2007, last updated on August 30, 2007

Commissioner Assigned: Michael R. Peevey on May 26, 2006

ALJ Assigned: Anne E. Simon on November 15, 2006; ALJ Assigned: Burton Mattson on May 26, 2006

CPUC DOCKET NO. R0605027 CPUC REV 08-30-07

Total number of addressees: 296

ERIN RANSLOW
NAVIGANT CONSULTING, INC.
3100 ZINFANDEL DRIVE, STE 600
RANCHO CORDOVA CA 95670-6078
Email: cpucrulings@navigantconsulting.com
Status: INFORMATION

PHILLIP REESE INC.
C/O REESE-CHAMBERS SYSTEMS CONSULTANTS,
PO BOX 8
3379 SOMIS ROAD
SOMIS CA 93066
FOR: The California Biomass Energy Alliance
Email: phil@reesechambers.com
Status: PARTY

L. JAN REID
COAST ECONOMIC CONSULTING
3185 GROSS ROAD
SANTA CRUZ CA 95062
FOR: Aglet Consumer Alliance
Email: janreid@coastecon.com
Status: PARTY

THEODORE E. ROBERTS ATTORNEY
SEMPRA ENERGY
101 ASH ST, HQ 12B
SAN DIEGO CA 92101-3017
FOR: Sempra Energy Solutions
Email: troberts@sempra.com
Status: PARTY

GRANT A. ROSENBLUM STAFF COUNSEL
CALIFORNIA ISO
151 BLUE RAVINE ROAD
FOLSOM CA 95630
FOR: CALIFORNIA ISO
Email: grosenblum@caiso.com
Status: INFORMATION

JP ROSS DEPUTY DIRECTOR
THE VOTE SOLAR INITIATIVE
300 BRANNAN ST, STE 609
SAN FRANCISCO CA 94107
FOR: THE VOTE SOLAR INITIATIVE
Email: jpross@votesolar.org
Status: PARTY

Nancy Ryan
CALIF PUBLIC UTILITIES COMMISSION
EXECUTIVE DIVISION
505 VAN NESS AVE RM 5217
SAN FRANCISCO CA 94102-3214
Email: ner@cpuc.ca.gov
Status: STATE-SERVICE

JOHN R. REDDING
ARCTURUS ENERGY CONSULTING
44810 ROSEWOOD TERRACE
MENDOCINO CA 95460
FOR: Silicon Valley Manufacturers Group
Email: johnredding@earthlink.net
Status: PARTY

MADDIE REICHER
EVOLUTION MARKETS
425 MARKET ST, SUTE 2209
SAN FRANCISCO CA 94105
Email: mreicher@evomarkets.com
Status: INFORMATION

RHONE RESCH
SOLAR ENERGY INDUSTRIES ASSOCIATION
805 FIFTEENTH ST, NW, STE 510
WASHINGTON DC 20005
Email: rresch@seia.org
Status: PARTY

HAROLD M. ROMANOWITZ
OAK CREEK ENERGY SYSTEMS, INC.
14633 WILLOW SPRINGS ROAD
MOJAVE CA 93501
FOR: OAK CREEK ENERGY SYSTEMS, INC.
Email: hal@rwitz.net
Status: INFORMATION

TIM ROSENFELD
131 CAMINO ALTO, STE D
MILL VALLEY CA 94941
Email: tim@marinemt.org
Status: INFORMATION

ROB ROTH
SACRAMENTO MUNICIPAL UTILITY DISTRICT
6201 S ST MS 75
SACRAMENTO CA 95817
FOR: SACRAMENTO MUNICIPAL UTILITY DISTRICT
Email: rroth@smud.org
Status: INFORMATION

JUDITH SANDERS
CALIFORNIA ISO
151 BLUE RAVINE ROAD
FOLSOM CA 95630
Email: jsanders@caiso.com
Status: PARTY

THE PUBLIC UTILITIES COMMISSION OF THE STATE OF CALIFORNIA SERVICE LIST

Downloaded September 7, 2007, last updated on August 30, 2007

Commissioner Assigned: Michael R. Peevey on May 26, 2006

ALJ Assigned: Anne E. Simon on November 15, 2006; ALJ Assigned: Burton Mattson on May 26, 2006

CPUC DOCKET NO. R0605027 CPUC REV 08-30-07

Total number of addressees: 296

DAVID SAUL COO
SOLEL, INC.
701 NORTH GREEN VALLEY PKY, STE 200
HENDERSON NV 89074
FOR: SOLEL, INC.
Email: david.saul@solel.com
Status: PARTY

JENINE SCHENK
APS ENERGY SERVICES
400 E. VAN BUREN ST, STE 750
PHOENIX AZ 85004
Email: jenine.schenk@apses.com
Status: INFORMATION

REED V. SCHMIDT
BARTLE WELLS ASSOCIATES
1889 ALCATRAZ AVE
BERKELEY CA 94703-2714
Email: rschmidt@bartlewells.com
Status: INFORMATION

Brian D. Schumacher
CALIF PUBLIC UTILITIES COMMISSION
ENERGY DIVISION
505 VAN NESS AVE AREA 4-A
SAN FRANCISCO CA 94102-3214
Email: bds@cpuc.ca.gov
Status: STATE-SERVICE

MICHAEL SHAMES ATTORNEY
UTILITY CONSUMERS' ACTION NETWORK
3100 FIFTH AVE, STE B
SAN DIEGO CA 92103
Email: mshames@ucan.org
Status: INFORMATION

WILLIAM P. SHORT
RIDGEWOOD POWER MANAGEMENT, LLC
947 LINWOOD AVE
RIDGEWOOD NJ 7450
FOR: RIDGEWOOD POWER MANAGEMENT, LLC
Email: bshort@ridgewoodpower.com
Status: INFORMATION

Sean A. Simon
CALIF PUBLIC UTILITIES COMMISSION
ENERGY RESOURCES BRANCH
505 VAN NESS AVE AREA 4-A
SAN FRANCISCO CA 94102-3214
Email: svn@cpuc.ca.gov
Status: STATE-SERVICE

JANINE L. SCANCARELLI ATTORNEY
FOLGER, LEVIN & KAHN, LLP
275 BATTERY ST, 23RD FLR
SAN FRANCISCO CA 94111
Email: jscancarelli@flk.com
Status: INFORMATION

STEVEN S. SCHLEIMER DIRECTOR, COMPLIANCE &
REGULATORY AFFAIRS
BARCLAYS BANK, PLC
200 PARK AVE, FIFTH FLR
NEW YORK NY 10166
Email: steven.schleimer@barclayscapital.com
Status: INFORMATION

DONALD SCHOENBECK
RCS, INC.
900 WASHINGTON ST, STE 780
VANCOUVER WA 98660
FOR: CAC
Email: dws@r-c-s-inc.com
Status: INFORMATION

Andrew Schwartz
CALIF PUBLIC UTILITIES COMMISSION
EXECUTIVE DIVISION
505 VAN NESS AVE RM 5217
SAN FRANCISCO CA 94102-3214
Email: as2@cpuc.ca.gov
Status: STATE-SERVICE

LINDA Y. SHERIF ATTORNEY
CALPINE CORPORATION
3875 HOPYARD ROAD, STE 345
PLEASANTON CA 94588
FOR: CALPINE CORP.
Email: sherifl@calpine.com
Status: PARTY

Anne E. Simon
CALIF PUBLIC UTILITIES COMMISSION
DIVISION OF ADMINISTRATIVE LAW JUDGES
505 VAN NESS AVE RM 5024
SAN FRANCISCO CA 94102-3214
Email: aes@cpuc.ca.gov
Status: STATE-SERVICE

KEVIN J. SIMONSEN
ENERGY MANAGEMENT SERVICES
646 EAST THIRD AVE
DURANGO CO 81301
Email: kjsimonsen@ems-ca.com
Status: INFORMATION

THE PUBLIC UTILITIES COMMISSION OF THE STATE OF CALIFORNIA SERVICE LIST

Downloaded September 7, 2007, last updated on August 30, 2007

Commissioner Assigned: Michael R. Peevey on May 26, 2006

ALJ Assigned: Anne E. Simon on November 15, 2006; ALJ Assigned: Burton Mattson on May 26, 2006

CPUC DOCKET NO. R0605027 CPUC REV 08-30-07

Total number of addressees: 296

AIMEE M. SMITH ATTORNEY
SEMPRA ENERGY
101 ASH ST HQ13
SAN DIEGO CA 92101
FOR: SEMPRA ENERGY
Email: amsmith@sempra.com
Status: PARTY

CAROL A. SMOOTS
PERKINS COIE LLP
607 FOURTEENTH ST, NW, STE 800
WASHINGTON DC 20005
Email: csmoots@perkinscoie.com
Status: PARTY

SEEMA SRINIVASAN ATTORNEY
ALCANTAR & KAHL, LLP
120 MONTGOMERY ST, STE 2200
SAN FRANCISCO CA 94104
Email: sls@a-klaw.com
Status: INFORMATION

Merideth Sterkel
CALIF PUBLIC UTILITIES COMMISSION
ENERGY DIVISION
505 VAN NESS AVE AREA 4-A
SAN FRANCISCO CA 94102-3214
Email: mts@cpuc.ca.gov
Status: STATE-SERVICE

F. Jackson Stoddard
CALIF PUBLIC UTILITIES COMMISSION
EXECUTIVE DIVISION
505 VAN NESS AVE RM 5125
SAN FRANCISCO CA 94102-3214
Email: fjs@cpuc.ca.gov
Status: STATE-SERVICE

NINA SUETAKE ATTORNEY
THE UTILITY REFORM NETWORK
711 VAN NESS AVE., STE 350
SAN FRANCISCO CA 94102
Email: nsuetake@turn.org
Status: INFORMATION

KENNY SWAIN
NAVIGANT CONSULTING
3100 ZINFANDEL DRIVE, STE 600
RANCHO CORDOVA CA 95670
Email: kenneth.swain@navigantconsulting.com
Status: INFORMATION

Donald R. Smith
CALIF PUBLIC UTILITIES COMMISSION
ELECTRICITY RESOURCES & PRICING BRANCH
505 VAN NESS AVE RM 4209
SAN FRANCISCO CA 94102-3214
Email: dsh@cpuc.ca.gov
Status: STATE-SERVICE

JAMES D. SQUERI ATTORNEY
GOODIN MACBRIDE SQUERI DAY & LAMPREY
505 SANSOME ST, STE 900
SAN FRANCISCO CA 94111
FOR: California Retailers Association
Email: jsqueri@goodinmacbride.com
Status: PARTY

CARL STEEN
BAKER & HOSTETLER LLP
600 ANTON BLVD., STE 900
COSTA MESA CA 92626
FOR: BAKER & HOSTETLER LLP
Email: csteen@bakerlaw.com
Status: INFORMATION

MONIQUE STEVENSON
SEA BREEZE PACIFIC REGIONAL TRANSMISSION
LOBBY BOX 91
333 SEYMOUR ST., STE 1400
VANCOUVER BC V5B 5A6 CANADA
Email: MoniqueStevenson@SeaBreezePower.com
Status: INFORMATION

PATRICK STONER PROGRAM DIRECTOR
LOCAL GOVERNMENT COMMISSION
1303 J ST, STE 250
SACRAMENTO CA 95814
Email: pstoner@lgc.org
Status: INFORMATION

VENKAT SURAVARAPU ASSOCIATES DIRECTOR
CAMBRIDGE ENERGY RESEARCH ASSOCIATES
1150 CONNECTICUT AVE NW, STE. 201
WASHINGTON DC 20036
FOR: CAMBRIDGE ENERGY RESEARCH ASSOCIATES
Email: vsuravarapu@cera.com
Status: INFORMATION

KEITH SWITZER
GOLDEN STATE WATER COMPANY
630 EAST FOOTHILL BLVD.
SAN DIMAS CA 91773-9016
Email: kswitzer@gswater.com
Status: INFORMATION

THE PUBLIC UTILITIES COMMISSION OF THE STATE OF CALIFORNIA SERVICE LIST

Downloaded September 7, 2007, last updated on August 30, 2007

Commissioner Assigned: Michael R. Peevey on May 26, 2006

ALJ Assigned: Anne E. Simon on November 15, 2006; ALJ Assigned: Burton Mattson on May 26, 2006

CPUC DOCKET NO. R0605027 CPUC REV 08-30-07

Total number of addressees: 296

KAREN TERRANOVA
ALCANTAR & KAHL, LLP
120 MONTGOMERY ST, STE 2200
SAN FRANCISCO CA 94104
FOR: Cogeneration Association of California
Email: filings@a-klaw.com
Status: INFORMATION

PATRICIA THOMPSON
SUMMIT BLUE CONSULTING
2920 CAMINO DIABLO, STE 210
WALNUT CREEK CA 94597
Email: pthompson@summitblue.com
Status: INFORMATION

JANE H. TURNBULL
LEAGUE OF WOMEN VOTERS OF CALIFORNIA
64 LOS ALTOS SQUARE
LOS ALTOS CA 94022
Email: jturnbu@ix.netcom.com
Status: PARTY

EDWARD VINE
LAWRENCE BERKELEY NATIONAL LABORATORY
BUILDING 90-4000
BERKELEY CA 94720
Email: elvine@lbl.gov
Status: INFORMATION

WILLIAM V. WALSH ATTORNEY
SOUTHERN CALIFORNIA EDISON
2244 WALNUT GROVE AVE.
ROSEMEAD CA 91770
FOR: Southern California Edison
Email: william.v.walsh@sce.com
Status: PARTY

DEVRA WANG
NATURAL RESOURCES DEFENSE COUNCIL
111 SUTTER ST, 20TH FLR
SAN FRANCISCO CA 94104
FOR: NATURAL RESOURCES DEFENSE COUNCIL
Email: dwang@nrdc.org
Status: INFORMATION

JAMES WEIL DIRECTOR
AGLET CONSUMER ALLIANCE
PO BOX 37
COOL CA 95614
Email: jweil@aglet.org
Status: PARTY

LEE TERRY
CALIFORNIA DEPARTMENT OF WATER RESOURCES
3310 EL CAMINO AVE
SACRAMENTO CA 95821
Email: lterry@water.ca.gov
Status: INFORMATION

NELLIE TONG
KEMA, INC.
492 NINTH ST, STE 220
OAKLAND CA 94607
Email: nellie.tong@us.kema.com
Status: INFORMATION

ANDREW J. VAN HORN
VAN HORN CONSULTING
12 LIND COURT
ORINDA CA 94563
Email: andy.vanhorn@vhcenergy.com
Status: INFORMATION

SYMONE VONGDEUANE
SEMPRA ENERGY SOLUTIONS
101 ASH ST, HQ09
SAN DIEGO CA 92101-3017
Email: svongdeuane@semprasolutions.com
Status: PARTY

ROBIN J. WALTHER
1380 OAK CREEK DRIVE, NO. 316
PALO ALTO CA 94304-2016
Email: rwalther@pacbell.net
Status: INFORMATION

JOY A. WARREN ATTORNEY
MODESTO IRRIGATION DISTRICT
1231 11TH ST
MODESTO CA 95354
Email: joyw@mid.org
Status: INFORMATION

JON WELNER
PAUL HASTINGS JANOFSKY & WALKER LLP
55 SECOND ST, 24TH FLR
SAN FRANCISCO CA 94105-3441
Email: jonwelner@paulhastings.com
Status: INFORMATION

THE PUBLIC UTILITIES COMMISSION OF THE STATE OF CALIFORNIA SERVICE LIST

Downloaded September 7, 2007, last updated on August 30, 2007

Commissioner Assigned: Michael R. Peevey on May 26, 2006

ALJ Assigned: Anne E. Simon on November 15, 2006; ALJ Assigned: Burton Mattson on May 26, 2006

CPUC DOCKET NO. R0605027 CPUC REV 08-30-07

Total number of addressees: 296

WILLIAM W. WESTERFIELD III ATTORNEY
ELLISON, SCHNEIDER & HARRIS LLP
2015 H ST
SACRAMENTO CA 95814
FOR: Sierra Pacific Power Company
Email: www@eslawfirm.com
Status: PARTY

KEITH WHITE
931 CONTRA COSTA DRIVE
EL CERRITO CA 94530
Email: keithwhite@earthlink.net
Status: INFORMATION

REID WINTHROP
PILOT POWER GROUP, INC.
8910 UNIVERSITY CENTER LANE, STE 520
SAN DIEGO CA 92122
Email: rwinthrop@pilotpowergroup.com
Status: PARTY

VIKKI WOOD
SACRAMENTO MUNICIPAL UTILITY DISTRICT
6301 S ST, MS A204
SACRAMENTO CA 95817-1899
Email: vwood@smud.org
Status: INFORMATION

CATHY S. WOOLLUMS
MIDAMERICAN ENERGY HOLDINGS COMPANY
106 EAST SECOND ST
DAVENPORT IA 52801
Email: cswollums@midamerican.com
Status: INFORMATION

LINDA WRAZEN
SEMPRA ENERGY REGULATORY AFFAIRS
101 ASH ST, HQ16C
SAN DIEGO CA 92101
Email: lwrazen@sempraglobal.com
Status: INFORMATION

ANDY WUELLNER
MOUNTAIN UTILITIES
PO BOX 1
KIRKWOOD CA 95646
Status: PARTY

Jane Whang
CALIF PUBLIC UTILITIES COMMISSION
LEGAL DIVISION
505 VAN NESS AVE RM 5029
SAN FRANCISCO CA 94102-3214
Email: jjw@cpuc.ca.gov
Status: STATE-SERVICE

VALERIE J. WINN
PACIFIC GAS AND ELECTRIC COMPANY
PO BOX 770000, B9A
SAN FRANCISCO CA 94177-0001
Email: vjw3@pge.com
Status: INFORMATION

RYAN WISER
BERKELEY LAB
MS-90-4000
ONE CYCLOTRON ROAD
BERKELEY CA 94720
FOR: BERKELEY LAB
Email: rhwiser@lbl.gov
Status: INFORMATION

JAMES B. WOODRUFF
SOUTHERN CALIFORNIA EDISON COMPANY
2244 WALNUT GROVE AVE, STE 342, GO1
ROSEMEAD CA 91770
Email: woodrujb@sce.com
Status: INFORMATION

CYNTHIA WOOTEN
LUMENX CONSULTING, INC.
1126 DELAWARE ST
BERKELEY CA 94702
Email: cwooten@lumenxconsulting.com
Status: INFORMATION

ELIZABETH WRIGHT
OCCIDENTAL POWER SERVICES, INC.
5 GREENWAY PLAZA, STE 110
HOUSTON TX 77046
Email: ej_wright@oxy.com
Status: PARTY

JASON YAN
PACIFIC GAS AND ELECTRIC COMPANY
77 BEALE ST, MAIL CODE B13L
SAN FRANCISCO CA 94105
FOR: PACIFIC GAS AND ELECTRIC COMPANY
Email: jay2@pge.com
Status: INFORMATION

THE PUBLIC UTILITIES COMMISSION OF THE STATE OF CALIFORNIA SERVICE LIST

Downloaded September 7, 2007, last updated on August 30, 2007

Commissioner Assigned: Michael R. Peevey on May 26, 2006

ALJ Assigned: Anne E. Simon on November 15, 2006; ALJ Assigned: Burton Mattson on May 26, 2006

CPUC DOCKET NO. R0605027 CPUC REV 08-30-07

Total number of addressees: 296

HUGH YAO

SOUTHERN CALIFORNIA GAS COMPANY

555 W. 5TH ST, GT22G2

LOS ANGELES CA 90013

Email: hyao@semprautilities.com

Status: INFORMATION

KATE ZOCCHETTI

CALIFORNIA ENERGY COMMISSION

1516 9TH ST, MS-45

SACRAMENTO CA 95814

Email: kzocchet@energy.state.ca.us

Status: STATE-SERVICE