
Pacific Gas and Electric Company

***Cogeneration and
Small Power Production
Semi-Annual Report***

July 2012

Pacific Gas and Electric Company

***Cogeneration and
Small Power Production
Semi-Annual Report***

**to the -
California Public Utilities
Commission-**

July 2012

Pacific Gas and Electric Company

Summary of Projects

July 2012

Signed Contracts * Currently Delivering

Project Type	Number of Projects	Contract Nameplate (kW) **
COGENERATOR		
	57	1,902,911
SMALL POWER PRODUCER		
BIOGAS	12	53,575
BIOMASS	18	384,850
GEOTHERMAL	2	2,900
HYDRO	70	199,479
SOLAR	1	7
WASTE TO ENERGY	1	50
WIND	24	458,390
Total	185	3,002,162

Projects Terminated During the Half Year

All Project Types	Number of Projects	Contract Nameplate (kW) **
Total	21	260,061

* Includes projects that have delivered within the last twelve months.

** Beginning with the July 2010 report, the capacity designation of "operating size" has been replaced with the term "contract nameplate" to provide consistent nomenclature among the three California investor-owned utilities.

Contract nameplate is the size of the generator indicated by the seller in the power purchase agreement.

Summary of Signed Contracts
Cogeneration Projects - Operational and Currently Delivering
July 2012

COGENERATOR

No.	Log. No.	Project Name	City / County	Contract Type *	Primary Energy Source	Contract** Nameplate (kW)	Operating Start Date	Enhanced Oil Recovery
20 MW or Less								
1	02C048	1080 CHESTNUT CORP.	SAN FRANCISCO / SAN FRANCISCO	3	NATURAL GAS	60	3/23/88	
2	25C249	AERA ENERGY LLC. (COALINGA)	COALINGA / FRESNO	1	NATURAL GAS EOR	8,500	6/3/88	Yes
3	04C140	AIRPORT CLUB	SANTA ROSA / SONOMA	3	NATURAL GAS	60	8/27/92	
4	02C047	ARDEN WOOD BENEVOLENT ASSOC.	SAN FRANCISCO / SAN FRANCISCO	3	NATURAL GAS	90	9/9/87	
5	25C151EO2	BERRY PETROLEUM COMPANY	TAFT / KERN	1	NATURAL GAS EOR	17,000	12/8/86	Yes
6	25C055	CHEVRON USA (COALINGA)	COALINGA / FRESNO	1	NATURAL GAS EOR	16,500	11/7/86	Yes
7	25C002	CHEVRON USA (TAFT/CADET)	TAFT / KERN	1	NATURAL GAS EOR	10,000	7/26/82	Yes
8	06C061	CITY OF FAIRFIELD	FAIRFIELD / SOLANO	1	NATURAL GAS	775	8/15/84	
9	08C097	CITY OF MILPITAS	MILPITAS / SANTA CLARA	3	NATURAL GAS	60	10/6/89	
10	25C063EO2	FRITO LAY COGEN	BAKERSFIELD / KERN	1	NATURAL GAS	6,000	4/2/86	
11	04C130	GREATER VALLEJO RECREATION DISTRICT	VALLEJO / SOLANO	3	NATURAL GAS	60	8/15/85	
12	01C201	HAYWARD AREA REC & PARK DIST.	HAYWARD / ALAMEDA	3	NATURAL GAS	60	2/2/88	
13	02C058	NIHONMACHI TERRACE	SAN FRANCISCO / SAN FRANCISCO	3	NATURAL GAS	75	6/1/92	
14	01C245	ORINDA SENIOR VILLAGE	ORINDA / CONTRA COSTA	3	NATURAL GAS	60	2/6/91	
15	12C019	OROVILLE COGEN	OROVILLE / BUTTE	2	NATURAL GAS	8,500	12/18/89	
16	25C293	PLAINS EXPLORATION AND PRODUCTION COMPANY (DOFELLOWS / KERN		1	NATURAL GAS EOR	6,064	9/2/88	Yes
17	01C108	RHODIA INC. (RHONE- POULENC)	MARTINEZ / CONTRA COSTA	1	NATURAL GAS	4,000	6/1/77	
18	25C178	SAINT AGNES MED. CTR	FRESNO / FRESNO	1	NATURAL GAS	2,325	11/21/85	
19	08C030EO1	SAN JOSE COGEN	SAN JOSE / SANTA CLARA	1	NATURAL GAS	6,000	12/18/84	
20	01C199	SATELLITE SENIOR HOMES	OAKLAND / ALAMEDA	3	NATURAL GAS	60	7/6/89	
21	02C041	SRI INTERNATIONAL	MENLO PARK / SAN MATEO	1	NATURAL GAS	6,000	3/10/87	
22	02C071EO2	UCSF	SAN FRANCISCO / SAN FRANCISCO	1	NATURAL GAS	12,600	1/26/98	
23	12C085	YUBA CITY RACQUET CLUB	YUBA CITY / SUTTER	3	NATURAL GAS	60	7/18/91	
Subtotal:						104,909		
Greater than 20 MW								
24	25C049EO2	AERA ENERGY LLC. (S. BELRIDGE)	BELRIDGE / KERN	1	NATURAL GAS EOR	48,000	1/10/86	Yes
25	25C250QTR	BADGER CREEK LIMITED	BAKERSFIELD / KERN	2	NATURAL GAS EOR	48,000	4/1/91	Yes
26	25C251	BEAR MOUNTAIN LIMITED	BAKERSFIELD / KERN	2	NATURAL GAS EOR	48,094	4/3/95	Yes

* Contract Type: 1/ As-Delivered Capacity Energy, 2/ Firm Capacity Energy, 3/ Energy Purchase, 4/ Long-term Energy Capacity.

** Beginning with the July 2010 report, the capacity designation of "operating size" has been replaced with the term "contract nameplate" to provide consistent nomenclature among the three California investor-owned utilities. Contract nameplate is the size of the generator indicated by the seller in the power purchase agreement.

Table 1

Summary of Signed Contracts

1 - 2

Cogeneration Projects - Operational and Currently Delivering

July 2012-

COGENERATOR-

No.	Log. No.	Project Name	City / County	Contract Type *	Primary Energy Source	Contract** Nameplate (kW)	Operating Start Date	Enhanced Oil Recovery
Greater than 20 MW								
27	25C099QTR	BERRY PETROLEUM COMPANY - UNIVERSITY COGEN	TAFT / KERN	2	NATURAL GAS EOR	37,200	12/8/86	Yes
28	18C006	CALPINE KING CITY COGEN.	KING CITY / MONTEREY	4	NATURAL GAS	120,000	3/14/89	
29	08C003	CARDINAL COGEN	STANFORD UNIVERSITY / SANTA CLARA	4	NATURAL GAS	49,900	2/20/88	
30	25C272QTR	CHALK CLIFF LIMITED	BAKERSFIELD / KERN	2	NATURAL GAS EOR	48,000	3/20/90	Yes
31	01C202	CHEVRON RICHMOND REFINERY	RICHMOND / CONTRA COSTA	1	NATURAL GAS	99,000	8/31/92	
32	25C246	CHEVRON U.S.A. INC. (SE KERN RIVER)	BAKERSFIELD / KERN	1	NATURAL GAS EOR	34,468	1/31/89	Yes
33	25C003	CHEVRON USA (CYMRIC)	CYMRIC / KERN	1	NATURAL GAS EOR	21,040	10/15/82	Yes
34	25C248	CHEVRON USA (EASTRIDGE)	BAKERSFIELD / KERN	1	NATURAL GAS EOR	48,800	6/13/88	Yes
35	25C124QTR	COALINGA COGENERATION COMPANY	COALINGA / FRESNO	1	NATURAL GAS EOR	40,200	3/1/92	Yes
36	01C045	CROCKETT COGEN	CROCKETT / CONTRA COSTA	4	NATURAL GAS	260,000	12/20/95	
37	25C092	FRESNO COGENERATION CORPORATION	FRESNO / FRESNO	2	NATURAL GAS	33,000	12/27/89	
38	08C010	GATX/CALPINE COGEN-AGNEWS INC.	SAN JOSE / SANTA CLARA	4	NATURAL GAS	36,100	10/19/90	
39	08C023QTR	GRAPHIC PACKAGING INTERNATIONAL, INC.	SANTA CLARA / SANTA CLARA	2	NATURAL GAS	26,000	12/20/85	
40	12C020	GREENLEAF UNIT #1	YUBA CITY / SUTTER	4	NATURAL GAS	49,200	1/11/89	
41	12C021	GREENLEAF UNIT #2	YUBA CITY / SUTTER	4	NATURAL GAS	49,500	10/12/89	
42	25C274QTR	LIVE OAK LIMITED	BAKERSFIELD / KERN	2	NATURAL GAS EOR	48,000	3/16/91	Yes
43	01C044	MARTINEZ COGEN LIMITED PARTNERSHIP	MARTINEZ / CONTRA COSTA	4	NATURAL GAS	99,900	2/23/87	
44	25C275QTR	MCKITTRICK LIMITED	BAKERSFIELD / KERN	2	NATURAL GAS EOR	48,000	10/16/91	Yes
45	25C123QTR	MIDSET COGEN CO.	TAFT / KERN	2	NATURAL GAS EOR	37,500	12/1/11	Yes
46	25C170	OILDALE ENERGY LLC	OILDALE / KERN	4	NATURAL GAS	33,800	12/29/84	
47	01C084	PE - BERKELEY, INC.	BERKELEY / ALAMEDA	4	NATURAL GAS	26,350	5/19/87	
48	25C164	PE - KES KINGSBURG, LLC	KINGSBURG / FRESNO	2	NATURAL GAS	34,500	12/5/90	
49	01C061	PHILLIPS 66	RODEO / CONTRA COSTA	1	NATURAL GAS	49,850	5/21/87	
50	25C076	RIO BRAVO POSO	BAKERSFIELD / KERN	4	COAL	37,000	9/27/89	Yes
51	16C034	RIPON COGENERATION, LLC	RIPON / SAN JOAQUIN	4	NATURAL GAS	49,500	4/19/88	
52	18C053QTR	SALINAS RIVER COGEN CO	SAN ARDO / MONTEREY	2	NATURAL GAS EOR	36,800	10/11/91	Yes
53	25C016	SANGER POWER, L.L.C.	SANGER / FRESNO	2	NATURAL GAS	42,000	12/11/90	
54	18C052QTR	SARGENT CANYON COGENERATION COMPANY	SAN ARDO / MONTEREY	1	NATURAL GAS EOR	35,300	10/7/91	Yes
55	25C138EO1	WESTERN POWER & STEAM INC	OILDALE / KERN	4	NATURAL GAS EOR	32,000	11/30/89	Yes

* Contract Type: 1/ As-Delivered Capacity Energy, 2/ Firm Capacity Energy, 3/ Energy Purchase, 4/ Long-term Energy Capacity.

** Beginning with the July 2010 report, the capacity designation of "operating size" has been replaced with the term "contract nameplate" to provide consistent nomenclature among the three California investor-owned utilities. Contract nameplate is the size of the generator indicated by the seller in the power purchase agreement.

Table 1

Summary of Signed Contracts
Cogeneration Projects - Operational and Currently Delivering
July 2012
COGENERATOR

No.	Log. No.	Project Name	City / County	Contract Type *	Primary Energy Source	Contract** Nameplate (kW)	Operating Start Date	Enhanced Oil Recovery
Greater than 20 MW								
56	13C082	WHEELABRATOR LASSEN INC.	ANDERSON / SHASTA	2	NATURAL GAS	42,000	4/28/83	
57	12C026	YUBA CITY COGEN	YUBA CITY / SUTTER	4	NATURAL GAS	49,000	12/27/90	
Subtotal:						1,798,002		
Total:						1,902,911		

* Contract Type: 1/ As-Delivered Capacity Energy, 2/ Firm Capacity Energy, 3/ Energy Purchase, 4/ Long-term Energy Capacity.

** Beginning with the July 2010 report, the capacity designation of "operating size" has been replaced with the term "contract nameplate" to provide consistent nomenclature among the three California investor-owned utilities. Contract nameplate is the size of the generator indicated by the seller in the power purchase agreement.

Summary of Signed Contracts

July 2012

Small Power Projects - Operational and Currently Delivering

BIOGAS

No.	Log. No.	Project	City / County	Contract Type *	Primary Energy Source	Contract ** Nameplate (kW)	Operating Start Date
20 MW or Less							
1	08C078	CITY OF WATSONVILLE	WATSONVILLE / SANTA CRUZ	1	DIGESTER GAS	550	1/23/93
2	01P171	EBMUD (OAKLAND)	OAKLAND / ALAMEDA	1	DIGESTER GAS	4,000	10/20/91
3	16P001QPA	FORWARD POWER PLANT INC.	STOCKTON / SAN JOAQUIN	1	LANDFILL GAS	700	11/27/85
4	04P010	GAS RECOVERY SYS. (AMERICAN CYN)	AMERICAN CANYON / NAPA	4	LANDFILL GAS	1,500	12/27/85
5	08P006	GAS RECOVERY SYS. (GUADALUPE)	LOS GATOS / SANTA CLARA	4	LANDFILL GAS	2,600	1/12/84
6	02P014	GAS RECOVERY SYS. (MENLO PARK)	MENLO PARK / SAN MATEO	2	LANDFILL GAS	2,000	1/11/83
7	08P004	GAS RECOVERY SYS. (NEWBY ISLAND 2)	SAN JOSE / SANTA CLARA	4	LANDFILL GAS	4,200	8/3/84
8	10P058	LANGERWERF DAIRY	DURHAM / BUTTE	3	DIGESTER GAS	85	11/3/82
9	18P059	MONTEREY REGIONAL WASTE MGMT DIST.	MARINA / MONTEREY	2	LANDFILL GAS	5,000	12/30/83
10	18C001	MONTEREY REGIONAL WATER	MARINA / MONTEREY	1	DIGESTER GAS	1,740	8/26/88
11	16P052EO1	STANISLAUS WASTE ENERGY CO.	CROWS LANDING / STANISLAUS	1	LANDFILL GAS	18,000	9/6/88
12	01P219	WASTE MANAGEMENT RENEWABLE ENERGY	LIVERMORE / ALAMEDA	1	LANDFILL GAS	13,200	5/4/89
Subtotal:						53,575	
Total:						53,575	

BIOMASS

No.	Log. No.	Project	City / County	Contract Type *	Primary Energy Source	Contract ** Nameplate (kW)	Operating Start Date
20 MW or Less							
13	10C003	COLLINS PINE	CHESTER / PLUMAS	2	WOODWASTE	12,000	4/4/84
14	19P005	DG FAIRHAVEN POWER, LLC	FAIRHAVEN / HUMBOLDT	4	WOODWASTE	17,250	9/15/86
15	10P001	OGDEN POWER PACIFIC, INC. (MT. LASSEN)	WESTWOOD / LASSEN	4	WOODWASTE	11,400	10/11/84
16	12P001	PACIFIC OROVILLE POWER	OROVILLE / BUTTE	4	WOODWASTE	18,000	9/26/85

* Contract Type: 1/ As-Delivered Capacity Energy, 2/ Firm Capacity Energy, 3/ Energy Purchase, 4/ Long-term Energy Capacity

** Beginning with the July 2010 report, the capacity designation of "operating size" has been replaced with the term "contract nameplate" to provide consistent nomenclature among the three California investor-owned utilities. Contract nameplate is the size of the generator indicated by the seller in the power purchase agreement.

Summary of Signed Contracts

July 2012

Small Power Projects - Operational and Currently Delivering

BIOMASS

No.	Log. No.	Project	City / County	Contract Type *	Primary Energy Source	Contract ** Nameplate (kW)	Operating Start Date
20 MW or Less							
17	13P163EO2	SIERRA PACIFIC IND. (ANDERSON)	ANDERSON / SHASTA	1	WOODWASTE	5,000	2/1/98
18	13C049	SIERRA PACIFIC IND. (BURNEY)	BURNEY / SHASTA	4	WOODWASTE	20,000	11/4/86
19	12C008	SIERRA PACIFIC IND. (LINCOLN)	LINCOLN / PLACER	4	WOODWASTE	7,500	6/3/86
20	10C018	SIERRA PACIFIC IND. (QUINCY)	QUINCY / PLUMAS	4	WOODWASTE	20,000	1/14/83
21	10C010	SIERRA PACIFIC IND.(SONORA)	SONORA / TOULUMNE	4	WOODWASTE	7,500	1/1/09
						Subtotal:	118,650
Greater than 20 MW							
22	13C038	BURNEY FOREST PRODUCTS	BURNEY / SHASTA	4	WOODWASTE	31,000	10/17/89
23	25C013	COVANTA MENDOTA L. P.	MENDOTA / FRESNO	4	WOODWASTE	25,000	6/29/89
24	19C010	EEL RIVER POWER LLC	SCOTIA / HUMBOLDT	1	WOODWASTE	28,800	3/22/86
25	10P005	HL POWER	WENDEL / LASSEN	4	WOODWASTE	32,000	7/26/89
26	16P002	PACIFIC-ULTRAPOWER CHINESE STATION	CHINESE STATION / TUOLUMNE	4	WOODWASTE	22,000	6/4/86
27	25P026	RIO BRAVO FRESNO	FRESNO / FRESNO	4	WOODWASTE	26,500	7/20/88
28	15P028	RIO BRAVO ROCKLIN	ROCKLIN / PLACER	4	WOODWASTE	25,000	6/9/89
29	16P054	THERMAL ENERGY DEV. CORP.	TRACY / SAN JOAQUIN	4	WOODWASTE	21,000	4/26/90
30	13P045	WHEELABRATOR SHASTA	COTTONWOOD / SHASTA	4	WOODWASTE	54,900	10/30/87
						Subtotal:	266,200
						Total:	384,850

* Contract Type: 1/ As-Delivered Capacity Energy, 2/ Firm Capacity Energy, 3/ Energy Purchase, 4/ Long-term Energy Capacity

** Beginning with the July 2010 report, the capacity designation of "operating size" has been replaced with the term "contract nameplate" to provide consistent nomenclature among the three California investor-owned utilities. Contract nameplate is the size of the generator indicated by the seller in the power purchase agreement.

Summary of Signed Contracts

July 2012

Small Power Projects - Operational and Currently Delivering

GEOHERMAL

No.	Log. No.	Project	City / County	Contract Type *	Primary Energy Source	Contract ** Nameplate (kW)	Operating Start Date
20 MW or Less							
31	10G012EO1	AMEDEE GEOTHERMAL VENTURE 1	WENDEL / LASSEN	1	GEOTHERMAL	2,200	9/11/88
32	10G011	WENDEL ENERGY OPERATIONS 1,LLC	WENDEL / LASSEN	4	GEOTHERMAL	700	6/11/85
						Subtotal:	2,900
						Total:	2,900

HYDRO

No.	Log. No.	Project	City / County	Contract Type *	Primary Energy Source	Contract ** Nameplate (kW)	Operating Start Date
20 MW or Less							
33	13H008	ARBUCKLE MOUNTAIN HYDRO	PLATINA / SHASTA	4	HYDRO	360	12/1/86
34	13H119	BAILEY CREEK RANCH	MANTON / SHASTA	3	HYDRO	630	5/26/82
35	19H002	BAKER STATION ASSOCIATES L.P.	BRIDGEVILLE / HUMBOLDT	4	HYDRO	1,500	12/10/87
36	25H204	CANAL CREEK POWER PLANT (RETA)	MERCED / MERCED	1	HYDRO	900	11/1/82
37	15H068	CHARCOAL RAVINE	SIERRA CITY / SIERRA	3	HYDRO	75	2/13/86
38	13H132	DIGGER CREEK RANCH	MONTON / TEHAMA	1	HYDRO	600	5/18/83
39	04H062	E J M MCFADDEN	POTTER VALLEY / MENDOCINO	1	HYDRO	350	7/1/83
40	15H012	EAGLE HYDRO	GEORGETOWN / EL DORADO	1	HYDRO	480	12/23/85
41	15H005	EIF HAYPRESS LLC (LWR)	SIERRA CITY / SIERRA	4	HYDRO	6,100	4/11/89
42	15H006	EIF HAYPRESS LLC (MDL)	SIERRA CITY / SIERRA	4	HYDRO	8,700	4/15/89
43	13H001	EL DORADO (MONTGOMERY CK)	MONTGOMERY CREEK / SHASTA	4	HYDRO	2,600	2/28/87
44	10H007	ERIC AND DEBBIE WATTENBURG	QUINCY / PLUMAS	1	HYDRO	275	4/6/85
45	25H193	FAIRFIELD POWER PLANT (PAPAZIAN)	MERCED / MERCED	1	HYDRO	900	8/2/83
46	04H011	FAR WEST POWER CORPORATION	POTTER VALLEY / MENDOCINO	4	HYDRO	400	9/30/87

* Contract Type: 1/ As-Delivered Capacity Energy, 2/ Firm Capacity Energy, 3/ Energy Purchase, 4/ Long-term Energy Capacity

** Beginning with the July 2010 report, the capacity designation of "operating size" has been replaced with the term "contract nameplate" to provide consistent nomenclature among the three California investor-owned utilities. Contract nameplate is the size of the generator indicated by the seller in the power purchase agreement.

Summary of Signed Contracts

July 2012

Small Power Projects - Operational and Currently Delivering

HYDRO

No.	Log. No.	Project	City / County	Contract Type *	Primary Energy Source	Contract ** Nameplate (kW)	Operating Start Date
20 MW or Less							
47	10H010	FIVE BEARS HYDROELECTRIC	TAYLORSVILLE / PLUMAS	4	HYDRO	990	4/27/89
48	13H123	HAT CREEK HEREFORD RANCH	HAT CREEK / SHASTA	3	HYDRO	100	12/9/82
49	19H051	HUMBOLDT BAY MWD	RUTH / TRINITY	1	HYDRO	2,000	4/10/83
50	10H013	HYPOWER, INC.	DE SABLA CITY / BUTTE	4	HYDRO	10,800	3/16/92
51	04H061QPA	INDIAN VALLEY HYDRO	CLEAR LAKE / LAKE	1	HYDRO	3,000	9/15/83
52	10H059	JAMES B. PETER	TAYLORSVILLE / PLUMAS	3	HYDRO	15	1/17/84
53	10H090	JAMES CRANE HYDRO	CHICO / BUTTE	3	HYDRO	3	6/20/91
54	04H134	JOHN NEERHOUT JR.	CALISTOGA / NAPA	3	HYDRO	85	5/1/87
55	25H073	KERN HYDRO (OLCESE)	BAKERSFIELD / KERN	4	HYDRO	16,000	5/18/89
56	25H150	KINGS RIVER HYDRO CO.	FRESNO / FRESNO	4	HYDRO	1,000	8/19/90
57	10H002	LASSEN STATION HYDRO	PULGA / BUTTE	4	HYDRO	990	5/22/86
58	13H120	LOFTON RANCH	BIG BEND / SHASTA	1	HYDRO	300	11/4/83
59	25H040	MADERA CANAL (1174 + 84)	MADERA / MADERA	4	HYDRO	563	4/11/86
60	25H042	MADERA CANAL (1923)	MADERA / MADERA	4	HYDRO	925	4/1/86
61	25H041	MADERA CANAL STATION 1302	MADERA / MADERA	4	HYDRO	424	4/16/86
62	25H036	MADERA-CHOWCHILLA WATER AND POWER AUTHORITY	MADERA / MADERA	4	HYDRO	2,000	2/2/85
63	13H125	MEGA HYDRO #1 (CLOVER CREEK)	OAK RUN / SHASTA	4	HYDRO	1,000	2/21/86
64	13H122	MEGA HYDRO (GOOSE VALLEY RANCH)	BURNEY / SHASTA	4	HYDRO	280	4/8/83
65	13H017	MEGA RENEWABLES (BIDWELL DITCH)	BURNEY / SHASTA	4	HYDRO	2,000	2/22/87
66	13H015	MEGA RENEWABLES (HATCHET CRK)	MONTGOMERY CR. / SHASTA	4	HYDRO	7,000	1/5/87
67	13H014	MEGA RENEWABLES (ROARING CRK)	MONTGOMERY CREEK / SHASTA	4	HYDRO	2,000	12/5/86
68	13H036	MEGA RENEWABLES (SILVER SPRINGS)	BIG BEND / SHASTA	4	HYDRO	600	8/15/87
69	25H185	MERCED ID (PARKER)	MERCED / MERCED	1	HYDRO	2,690	9/23/81
70	19H006	MILL & SULPHUR CREEK	DINSMORE / HUMBOLDT	4	HYDRO	995	2/23/88

* Contract Type: 1/ As-Delivered Capacity Energy, 2/ Firm Capacity Energy, 3/ Energy Purchase, 4/ Long-term Energy Capacity

** Beginning with the July 2010 report, the capacity designation of "operating size" has been replaced with the term "contract nameplate" to provide consistent nomenclature among the three California investor-owned utilities. Contract nameplate is the size of the generator indicated by the seller in the power purchase agreement.

Summary of Signed Contracts

July 2012

Small Power Projects - Operational and Currently Delivering

HYDRO

No.	Log. No.	Project	City / County	Contract Type *	Primary Energy Source	Contract ** Nameplate (kW)	Operating Start Date
20 MW or Less							
71	18H034EO1	MONTEREY COUNTY WATER RES AGENCY	SAN LUIS OBISPO / SAN LUIS OBISPO	1	HYDRO	3,750	7/13/87
72	13H042	NELSON CREEK POWER INC.	BIG BEND / SHASTA	4	HYDRO	1,100	12/19/88
73	15H015	NEVADA IRRIGATION DISTRICT/BOWMAN HYDROELECTR	NEVADA CITY / NEVADA	4	HYDRO	3,600	8/18/86
74	13H024	OLSEN POWER PARTNERS	WHITMORE / SHASTA	4	HYDRO	5,000	1/3/90
75	25H149	ORANGE COVE IRRIGATION DIST.	FRESNO / FRESNO	4	HYDRO	450	8/23/90
76	15H059	PLACER COUNTY WATER AGENCY	FOREST HILL / PLACER	1	HYDRO	500	4/30/83
77	06H011	ROCK CREEK L.P.	PLACERVILLE / EL DORADO	4	HYDRO	3,700	4/24/86
78	16H033	ROCK CREEK WATER DISTRICT	SALT SPRINGS VA / CALAVERAS	1	HYDRO	700	2/25/86
79	15H002	SALMON CREEK HYDROELECTRIC COMPANY	SIERRA CITY / SIERRA	4	HYDRO	594	11/28/84
80	08H013	SANTA CLARA VALLEY WATER DIST.	MORGAN HILL / SANTA CLARA	4	HYDRO	800	12/1/88
81	16H030	SCHAADS HYDRO	WILSEYVILLE / CALAVERAS	1	HYDRO	230	2/18/86
82	19H048	SHAMROCK UTILITIES (CEDAR FLAT)	BURNT RANCH / TRINITY	4	HYDRO	300	1/9/84
83	13H012	SHAMROCK UTILITIES (CLOVER LEAF)	OAK RUN / SHASTA	4	HYDRO	200	2/1/85
84	13H016	SNOW MOUNTAIN HYDRO LLC (BURNEY CREEK)	BURNEY / SHASTA	4	HYDRO	3,000	3/28/90
85	13H013	SNOW MOUNTAIN HYDRO LLC (COVE)	MONTGOMERY CR. / SHASTA	4	HYDRO	5,000	2/20/90
86	13H035	SNOW MOUNTAIN HYDRO LLC (PONDEROSA BAILEY CREMANTON / SHASTA		4	HYDRO	1,100	2/25/90
87	16H094	SOUTH SAN JOAQUIN ID (FRANKENHEIMER)	OAKDALE / STANISLAUS	1	HYDRO	5,035	2/12/83
88	16H097	SOUTH SAN JOAQUIN ID (WOODWARD)	OAKDALE / STANISLAUS	1	HYDRO	2,850	4/16/82
89	12H007	STS HYDROPOWER LTD. (KANAKA)	FEATHER FALLS / BUTTE	4	HYDRO	1,100	2/13/89
90	13H039EO2	STS HYDROPOWER LTD. (KEKAWAKA)	ALDERPOINT / TRINITY	1	HYDRO	4,950	12/27/89
91	13H006	SUTTER'S MILL	SHINGLETOWN / SHASTA	1	HYDRO	150	6/25/85
92	15H069	SWISS AMERICA	AUBURN / PLACER	3	HYDRO	100	12/23/85
93	13H040	TKO POWER (SOUTH BEAR CREEK)	SHINGLETOWN / SHASTA	4	HYDRO	4,950	1/15/86
94	19H055	TOM BENNINGHOVEN	GARBERVILLE / HUMBOLDT	3	HYDRO	25	11/22/82

* Contract Type: 1/ As-Delivered Capacity Energy, 2/ Firm Capacity Energy, 3/ Energy Purchase, 4/ Long-term Energy Capacity

** Beginning with the July 2010 report, the capacity designation of "operating size" has been replaced with the term "contract nameplate" to provide consistent nomenclature among the three California investor-owned utilities. Contract nameplate is the size of the generator indicated by the seller in the power purchase agreement.

Summary of Signed Contracts

July 2012

Small Power Projects - Operational and Currently Delivering

HYDRO

No.	Log. No.	Project	City / County	Contract Type *	Primary Energy Source	Contract ** Nameplate (kW)	Operating Start Date
20 MW or Less							
95	16H003	TRI-DAM AUTHORITY	SONORA / TUOLUMNE	4	HYDRO	16,200	5/19/86
96	13H124	WATER WHEEL RANCH	MONTGOMERY CREEK / SHASTA	4	HYDRO	975	3/22/84
97	15H072	WRIGHT RANCH HYDROELECTRIC	WRIGHT RANCH / SIERRA	3	HYDRO	40	11/22/85
98	10H060	YOUTH WITH A MISSION/SPRINGS OF LIVING WATERS	CHICO / BUTTE	1	HYDRO	300	1/26/83
99	12H010	YUBA COUNTY WATER (DEADWOOD CREEK)	CHALLENGE / YUBA	4	HYDRO	2,000	1/29/90
100	12H006	YUBA COUNTY WATER AGENCY (FISH RELEASE)	MARYSVILLE / YUBA	4	HYDRO	150	9/30/86
						Subtotal:	148,479
Greater than 20 MW							
101	25H037	FRIANT POWER AUTHORITY	FRIANT / MADERA	4	HYDRO	25,000	4/16/85
102	13H047	MALACHA HYDRO L.P.	PITVILLE / LASSEN	4	HYDRO	26,000	12/7/88
						Subtotal:	51,000
						Total:	199,479

SOLAR

No.	Log. No.	Project	City / County	Contract Type *	Primary Energy Source	Contract ** Nameplate (kW)	Operating Start Date
20 MW or Less							
103	04S142	ROBIN WILLIAMS SOLAR POWER GEN	NAPA / NAPA	3	PHOTOVOLTAIC	7	4/16/93
						Subtotal:	7
						Total:	7

* Contract Type: 1/ As-Delivered Capacity Energy, 2/ Firm Capacity Energy, 3/ Energy Purchase, 4/ Long-term Energy Capacity

** Beginning with the July 2010 report, the capacity designation of "operating size" has been replaced with the term "contract nameplate" to provide consistent nomenclature among the three California investor-owned utilities. Contract nameplate is the size of the generator indicated by the seller in the power purchase agreement.

Summary of Signed Contracts

July 2012

Small Power Projects - Operational and Currently Delivering

WASTE TO ENERGY

No.	Log. No.	Project	City / County	Contract Type *	Primary Energy Source	Contract ** Nameplate (kW)	Operating Start Date
20 MW or Less							
104	25C062	DOLE ENTERPRISES, INC	KERN / KERN	3	WASTE GAS	50	2/5/91
						Subtotal:	50
						Total:	50

WIND

No.	Log. No.	Project	City / County	Contract Type *	Primary Energy Source	Contract ** Nameplate (kW)	Operating Start Date
20 MW or Less							
105	16W014	ALTAMONT POWER LLC (3-4)	LIVERMORE / ALAMEDA	4	WIND	4,050	4/11/85
106	16W015	ALTAMONT POWER LLC (4-4)	ALTAMONT PASS / ALAMEDA	4	WIND	19,000	1/1/87
107	16W017	ALTAMONT POWER LLC (6-4)	ALTAMONT PASS / ALAMEDA	4	WIND	19,000	1/1/87
108	01W119	DONALD R. CHENOWETH	LIVERMORE / ALAMEDA	3	WIND	10	8/2/82
109	06W148	GREEN RIDGE POWER LLC (10 MW)	MONTEZUMA HILLS / SOLANO	4	WIND	10,000	1/1/90
110	01W146C	GREEN RIDGE POWER LLC (100 MW - C)	TRACY / SAN JOAQUIN	4	WIND	11,900	1/2/90
111	01W146D	GREEN RIDGE POWER LLC (100 MW - D)	TRACY / SAN JOAQUIN	4	WIND	15,000	1/1/91
112	16W011	GREEN RIDGE POWER LLC (23.8 MW)	TRACY / SAN JOAQUIN	4	WIND	10,800	1/5/87
113	01W018	GREEN RIDGE POWER LLC (5.9 MW)	TRACY / SAN JOAQUIN	4	WIND	5,900	3/2/88
114	06W146B	GREEN RIDGE POWER LLC (70 MW - B)	BENECIA / SOLANO	4	WIND	700	1/1/90
115	06W146C	GREEN RIDGE POWER LLC (70 MW - C)	BENECIA / SOLANO	4	WIND	6,500	1/1/91
116	06W146D	GREEN RIDGE POWER LLC (70 MW - D)	BENECIA / SOLANO	4	WIND	1,500	1/1/91
117	01W011	SEA WEST ENERGY - ALTECH	ALTAMONT PASS / SAN JOAQUIN	4	WIND	5,760	1/22/83
118	01W006	SEA WEST ENERGY - SEAWEST	ALTAMONT PASS / SAN JOAQUIN	4	WIND	65	1/22/83
119	01W015	SEA WEST ENERGY - TAXVEST	ALTAMONT PASS / SAN JOAQUIN	4	WIND	715	1/22/83

* Contract Type: 1/ As-Delivered Capacity Energy, 2/ Firm Capacity Energy, 3/ Energy Purchase, 4/ Long-term Energy Capacity

** Beginning with the July 2010 report, the capacity designation of "operating size" has been replaced with the term "contract nameplate" to provide consistent nomenclature among the three California investor-owned utilities. Contract nameplate is the size of the generator indicated by the seller in the power purchase agreement.

Table 2

Summary of Signed Contracts

July 2012

Small Power Projects - Operational and Currently Delivering

WIND

No.	Log. No.	Project	City / County	Contract Type *	Primary Energy Source	Contract ** Nameplate (kW)	Operating Start Date
20 MW or Less							
120	01W014	SEA WEST ENERGY - VIKING	ALTAMONT PASS / SAN JOAQUIN	4	WIND	1,690	1/22/83
121	01W012	SEA WEST ENERGY - WESTERN	ALTAMONT PASS / SAN JOAQUIN	4	WIND	2,700	1/22/83
						Subtotal:	115,290
Greater than 20 MW							
122	16W009	ALTAMONT MIDWAY LTD.	ALTAMONT PASS / SAN JOAQUIN	4	WIND	48,900	4/16/85
123	01W146A	GREEN RIDGE POWER LLC (100 MW - A)	TRACY / SAN JOAQUIN	4	WIND	43,100	1/1/88
124	01W004	GREEN RIDGE POWER LLC (110 MW)	LIVERMORE / ALAMEDA	4	WIND	114,100	1/1/86
125	01W035	GREEN RIDGE POWER LLC (70 MW)	LIVERMORE / ALAMEDA	4	WIND	54,000	4/1/87
126	25W105	INTERNATIONAL TURBINE RESEARCH	PACHECO PASS / MERCED	4	WIND	34,000	6/14/88
127	01W095	NORTHWIND ENERGY	ALTAMONT / CONTRA COSTA	4	WIND	27,000	1/4/86
128	16W028	PATTERSON PASS WIND FARM LLC	ALTAMONT PASS / SAN JOAQUIN	4	WIND	22,000	4/2/85
						Subtotal:	343,100
						Total:	458,390

* Contract Type: 1/ As-Delivered Capacity Energy, 2/ Firm Capacity Energy, 3/ Energy Purchase, 4/ Long-term Energy Capacity

** Beginning with the July 2010 report, the capacity designation of "operating size" has been replaced with the term "contract nameplate" to provide consistent nomenclature among the three California investor-owned utilities. Contract nameplate is the size of the generator indicated by the seller in the power purchase agreement.