
Pacific Gas and Electric Company

*Cogeneration and
Small Power Production
Semi-Annual Report*

January 2010

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

**to the
California Public Utilities
Commission**

January 2010

Pacific Gas and Electric Company

Summary of Projects

January 2010

Signed Contracts * Currently Delivering

Project Type	Number of Projects	Operating Size (kW)
COGENERATOR		
	76	2,439,633
SMALL POWER PRODUCER		
BIOGAS	13	55,175
BIOMASS	21	428,100
GEOTHERMAL	2	2,900
HYDRO	84	211,807
SOLAR	1	7
WASTE TO ENERGY	7	111,750
WIND	26	572,140
Total	230	3,821,512

Projects Terminated During the Half Year

All Project Types	Number of Projects	Nameplate (kW)
Total	5	31,650

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

Table 1

Summary of Signed Contracts
Cogeneration Projects - Operational and Currently Delivering
January 2010
COGENERATOR

No.	Log. No.	Project Name	City / County	Contract Type *	Primary Energy Source	Operating Size (kW)	Operating Start Date	Enhanced Oil Recovery
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	25C049EO1	AERA ENERGY LLC. (S. BELRIDGE)	BELRIDGE / KERN	1	NATURAL GAS EOR	48,000	1/10/86	Yes
4	04C140	AIRPORT CLUB	SANTA ROSA / SANTA ROSA	3	NATURAL GAS	60	8/27/92	
5	02C047	ARDEN WOOD BENEVOLENT ASSOC.	SAN FRANCISCO / SAN FRANCISCO	3	NATURAL GAS	90	9/9/87	
6	25C250	BADGER CREEK LIMITED	BAKERSFIELD / KERN	2	NATURAL GAS EOR	48,094	4/1/91	Yes
7	25C251	BEAR MOUNTAIN LIMITED	BAKERSFIELD / KERN	2	NATURAL GAS EOR	48,094	4/3/95	Yes
8	25C099EO1	BERRY PETROLEUM COGEN	TAFT / KERN	1	NATURAL GAS EOR	38,000	12/8/86	Yes
9	25C151EO1	BERRY PETROLEUM COMPANY	TAFT / KERN	1	NATURAL GAS EOR	17,000	12/8/86	Yes
10	18C006	CALPINE KING CITY COGEN.	KING CITY / MONTEREY	4	NATURAL GAS	120,000	3/14/89	
11	08C022	CALPINE MONTEREY COGEN INC.	WATSONVILLE / SANTA CRUZ	4	NATURAL GAS	28,500	4/27/90	
12	01C052	CALPINE PITTSBURG POWER PLANT	PITTSBURG / CONTRA COSTA	1	NATURAL GAS	65,500	7/1/77	
13	08C003	CARDINAL COGEN	STANFORD UNIVERSITY / SANTA CLARA	4	NATURAL GAS	49,900	2/20/88	
14	25C272	CHALK CLIFF LIMITED	BAKERSFIELD / KERN	2	NATURAL GAS EOR	48,094	3/20/90	Yes
15	01C202	CHEVRON RICHMOND REFINERY	RICHMOND / CONTRA COSTA	1	NATURAL GAS	99,000	8/31/92	
16	25C168EO1	CHEVRON U.S.A. INC. (FEE C)	OILDALE / KERN	1	NATURAL GAS EOR	7,450	2/26/87	Yes
17	25C130EO1	CHEVRON U.S.A. INC. (FEE A)	OILDALE / KERN	1	NATURAL GAS EOR	7,450	6/25/86	Yes
18	25C193EO2	CHEVRON U.S.A. INC. (MCKITTRICK)	MCKITTRICK / KERN	1	NATURAL GAS EOR	10,970	10/1/84	Yes
19	25C005EO1	CHEVRON U.S.A. INC. (NORTH MIDWAY)	MCKITTRICK / KERN	1	NATURAL GAS EOR	13,614	6/27/86	Yes
20	25C246	CHEVRON U.S.A. INC. (SE KERN RIVER)	BAKERSFIELD / KERN	1	NATURAL GAS EOR	34,468	1/31/89	Yes
21	25C055	CHEVRON USA (COALINGA)	COALINGA / FRESNO	1	NATURAL GAS EOR	16,500	11/7/86	Yes
22	01C080	CHEVRON USA (CONCORD)	CONCORD / CONTRA COSTA	1	NATURAL GAS	3,000	3/29/88	
23	25C003	CHEVRON USA (CYMRIC)	CYMRIC / KERN	1	NATURAL GAS EOR	21,040	10/15/82	Yes
24	25C248	CHEVRON USA (EASTRIDGE)	BAKERSFIELD / KERN	1	NATURAL GAS EOR	48,800	6/13/88	Yes
25	25C002	CHEVRON USA (TAFT/CADET)	TAFT / KERN	1	NATURAL GAS EOR	10,000	7/26/82	Yes
26	06C061	CITY OF FAIRFIELD	FAIRFIELD / SOLANO	1	NATURAL GAS	775	8/15/84	
27	08C097	CITY OF MILPITAS	MILPITAS / SANTA CLARA	3	NATURAL GAS	60	10/6/89	
28	25C124EO1	COALINGA COGENERATION COMPANY	COALINGA / FRESNO	1	NATURAL GAS EOR	46,000	3/1/92	Yes
29	01C061	CONOCOPHILLIPS COMPANY	RODEO / CONTRA COSTA	1	NATURAL GAS	49,900	5/21/87	
30	08C071	COUNTY OF SANTA CRUZ (WATER ST. JAIL)	SANTA CRUZ / SANTA CRUZ	1	NATURAL GAS	180	9/1/87	
31	01C045	CROCKETT COGEN	CROCKETT / CONTRA COSTA	4	NATURAL GAS	260,000	12/20/95	
32	25C138	DAI / OILDALE , INC.	OILDALE / KERN	4	NATURAL GAS EOR	32,000	11/30/89	Yes
33	25C241EO1	DOUBLE "C" LIMITED	BAKERSFIELD / KERN	2	NATURAL GAS EOR	48,094	3/14/89	Yes
34	25C092	FRESNO COGENERATION CORPORATION	FRESNO / FRESNO	2	NATURAL GAS	33,000	12/27/89	
35	25C063EO1	FRITO LAY COGEN	BAKERSFIELD / KERN	1	NATURAL GAS	6,000	4/2/86	

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

Table 1

Summary of Signed Contracts

Cogeneration Projects - Operational and Currently Delivering

January 2010

COGENERATOR

No.	Log. No.	Project Name	City / County	Contract Type *	Primary Energy Source	Operating Size (kW)	Operating Start Date	Enhanced Oil Recovery
36	08C010	GATX/CALPINE COGEN-AGNEWS INC.	SAN JOSE / SANTA CLARA	4	NATURAL GAS	36,100	10/19/90	
37	08C023EO1	GRAPHIC PACKING INT'L (BLUE GRASS)	SANTA CLARA / SANTA CLARA	1	NATURAL GAS	30,000	12/20/85	
38	04C130	GREATER VALLEJO RECREATION DISTRICT	VALLEJO / SOLANO	3	NATURAL GAS	80	8/15/85	
39	12C020	GREENLEAF UNIT #1	YUBA CITY / SUTTER	4	NATURAL GAS	49,500	1/11/89	
40	12C021	GREENLEAF UNIT #2	YUBA CITY / SUTTER	4	NATURAL GAS	49,500	10/12/89	
41	01C201	HAYWARD AREA REC & PARK DIST.	HAYWARD / ALAMEDA	3	NATURAL GAS	60	2/2/88	
42	25C242EO1	HIGH SIERRA LIMITED	BAKERSFIELD / KERN	2	NATURAL GAS EOR	48,094	2/24/89	Yes
43	25C188EO1	KERN FRONT LIMITED	BAKERSFIELD / KERN	2	NATURAL GAS EOR	48,094	1/7/89	Yes
44	25C274	LIVE OAK LIMITED	BAKERSFIELD / KERN	2	NATURAL GAS EOR	48,094	3/16/91	Yes
45	01C044	MARTINEZ COGEN LIMITED PARTNERSHIP	MARTINEZ / CONTRA COSTA	4	NATURAL GAS	99,900	2/23/87	
46	25C275	MCKITTRICK LIMITED	BAKERSFIELD / KERN	2	NATURAL GAS EOR	48,094	10/16/91	Yes
47	25C123EO2	MIDSET COGEN. CO.	TAFT / KERN	1	NATURAL GAS EOR	46,000	3/16/89	
48	25C321	MIDWAY-SUNSET COGEN. CO.	FELLOWS / KERN	1	NATURAL GAS EOR	30,000	12/18/89	Yes
49	25C018EO1	MT.POSO COGENERATION CO.	BAKERSFIELD / KERN	4	COAL	49,500	4/1/89	
50	04C054	NAPA STATE HOSPITAL	NAPA / NAPA	1	NATURAL GAS	1,330	7/18/84	
51	25C170	OILDALE ENERGY LLC	OILDALE / KERN	4	NATURAL GAS	33,800	12/29/84	
52	01C245	ORINDA SENIOR VILLAGE	ORINDA / CONTRA COSTA	3	NATURAL GAS	60	2/6/91	
53	12C019	OROVILLE COGEN	OROVILLE / BUTTE	2	NATURAL GAS	8,500	12/18/89	
54	01C084	PE - BERKELEY, INC.	BERKELEY / ALAMEDA	4	NATURAL GAS	26,350	5/19/87	
55	25C164	PE - KES KINGSBURG,LLC	KINGSBURG / FRESNO	2	NATURAL GAS	34,500	12/5/90	
56	25C293	PLAINS EXPLORATION AND PRODUCTION COMPANY (DOFELLOWS / KERN		1	NATURAL GAS EOR	6,064	9/2/88	Yes
57	25C308	PLAINS EXPLORATION AND PRODUCTION COMPANY (WEMCKITTRICK / KERN		1	NATURAL GAS EOR	4,000	1/27/90	Yes
58	16C007	POSDEF (COGEN NATIONAL)	PORT OF STOCKTON / SAN JOAQUIN	4	COAL	44,000	12/7/87	
59	13C160	RED BLUFF UNION HIGH SCHOOL	RED BLUFF / TEHAMA	3	NATURAL GAS	60	7/15/91	
60	01C108	RHODIA INC. (RHONE- POULENC)	MARTINEZ / CONTRA COSTA	1	NATURAL GAS	4,000	6/1/77	
61	25C076	RIO BRAVO POSO	BAKERSFIELD / KERN	4	COAL	37,000	9/27/89	Yes
62	16C034	RIPON COGENERATION, LLC	RIPON / SAN JOAQUIN	4	NATURAL GAS	49,500	4/19/88	
63	25C178	SAINTE AGNES MED. CTR	FRESNO / FRESNO	1	NATURAL GAS	2,325	11/21/85	
64	18C053EO1	SALINAS RIVER COGEN CO	SAN ARDO / MONTEREY	1	NATURAL GAS EOR	49,600	10/11/91	Yes
65	08C030	SAN JOSE COGEN	SAN JOSE / SANTA CLARA	1	NATURAL GAS	6,000	12/18/84	
66	25C016	SANGER POWER, L.L.C.	SANGER / FRESNO	2	NATURAL GAS	42,000	12/11/90	
67	18C052EO1	SARGENT CANYON COGERATION COMPANY	SAN ARDO / MONTEREY	1	NATURAL GAS EOR	49,600	10/7/91	Yes
68	01C199	SATELLITE SENIOR HOMES	OAKLAND / ALAMEDA	3	NATURAL GAS	60	7/17/86	
69	02C041	SRI INTERNATIONAL	MENLO PARK / SAN MATEO	1	NATURAL GAS	6,000	3/10/87	
70	01C089	STANFORD ENERGY GROUP	OAKLAND / ALAMEDA	1	NATURAL GAS	115	1/8/86	

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

Table 1

Summary of Signed Contracts

Cogeneration Projects - Operational and Currently Delivering

January 2010

COGENERATOR

No.	Log. No.	Project Name	City / County	Contract Type *	Primary Energy Source	Operating Size (kW)	Operating Start Date	Enhanced Oil Recovery
71	16C036EO1	STOCKTON COGEN CO.	STOCKTON / SAN JOAQUIN	4	COAL	49,900	2/27/88	
72	02C071EO2	UCSF	SAN FRANCISCO / SAN FRANCISCO	1	NATURAL GAS	12,600	1/26/98	
73	02C001	UNITED AIRLINES (COGEN)	SAN BRUNO / SAN MATEO	4	NATURAL GAS	30,000	9/12/86	
74	13C082	WHEELABRATOR LASSEN INC.	ANDERSON / SHASTA	2	NATURAL GAS	42,000	4/28/83	
75	12C026	YUBA CITY COGEN	YUBA CITY / SUTTER	4	NATURAL GAS	49,000	12/27/90	
76	12C085	YUBA CITY RACQUET CLUB	YUBA CITY / SUTTER	3	NATURAL GAS	60	7/18/91	
Total:						2,439,633		

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

Table 2

Summary of Signed Contracts

January 2010

Small Power Projects - Operational and Currently Delivering

BIOGAS

No.	Log. No.	Project	City / County	Contract Type *	Primary Energy Source	Operating Size (kW)	Operating Start Date
1	08C078	CITY OF WATSONVILLE	WATSONVILLE / SANTA CRUZ	1	DIGESTER GAS	550	1/23/93
2	18P014EO1	COVANTA POWER PACIFIC (SALINAS)	SALINAS / MONTEREY	1	LANDFILL GAS	1,500	11/10/86
3	16P001EO1	COVANTA POWER PACIFIC, STOCKTON	STOCKTON / SAN JOAQUIN	1	LANDFILL GAS	800	11/27/85
4	01P171	EBMUD (OAKLAND)	OAKLAND / ALAMEDA	1	DIGESTER GAS	4,000	10/20/91
5	04P010	GAS RECOVERY SYS. (AMERICAN CYN)	AMERICAN CANYON / NAPA	4	LANDFILL GAS	1,500	12/27/85
6	08P006	GAS RECOVERY SYS. (GUADALUPE)	LOS GATOS / SANTA CLARA	4	LANDFILL GAS	2,600	1/12/84
7	02P014	GAS RECOVERY SYS. (MENLO PARK)	MENLO PARK / SAN MATEO	2	LANDFILL GAS	2,000	1/11/83
8	08P004	GAS RECOVERY SYS. (NEWBY ISLAND 2)	SAN JOSE / SANTA CLARA	4	LANDFILL GAS	4,200	8/3/84
9	10P058	LANGERWERF DAIRY	DURHAM / BUTTE	3	DIGESTER GAS	85	11/3/82
10	18P059	MONTEREY REGIONAL WASTE MGMT DIST.	MARINA / MONTEREY	2	LANDFILL GAS	5,000	12/30/83
11	18C001	MONTEREY REGIONAL WATER	MARINA / MONTEREY	1	DIGESTER GAS	1,740	8/26/88
12	16P052	STANISLAUS WASTE ENERGY CO.	CROWS LANDING / STANISLAUS	4	GARBAGE	18,000	9/6/88
13	01P219	WASTE MANAGEMENT RENEWABLE ENERGY	LIVERMORE / ALAMEDA	1	LANDFILL GAS	13,200	5/4/89
Total:						55,175	

BIOMASS

No.	Log. No.	Project	City / County	Contract Type *	Primary Energy Source	Operating Size (kW)	Operating Start Date
14	13C010	BIG VALLEY POWER LLC	BIEBER / LASSEN	2	WOODWASTE	7,500	8/18/83
15	13C038	BURNEY FOREST PRODUCTS	BURNEY / SHASTA	4	WOODWASTE	31,000	10/17/89
16	10C003	COLLINS PINE	CHESTER / PLUMAS	2	WOODWASTE	12,000	4/4/84
17	25C013	COVANTA MENDOTA L. P.	MENDOTA / FRESNO	4	WOODWASTE	28,000	6/29/89
18	19P005	DG FAIRHAVEN POWER, LLC	FAIRHAVEN / HUMBOLDT	4	WOODWASTE	17,250	9/15/86
19	10P005	HL POWER	WENDEL / LASSEN	4	WOODWASTE	30,000	7/26/89
20	13P118	OGDEN POWER PACIFIC, INC. (BURNEY)	BURNEY / SHASTA	4	WOODWASTE	9,750	8/15/84
21	16P002	OGDEN POWER PACIFIC, INC. (CHINESE STATION)	CHINESE STATION / TUOLUMNE	4	WOODWASTE	22,000	6/4/86
22	10P001	OGDEN POWER PACIFIC, INC. (MT. LASSEN)	WESTWOOD / LASSEN	4	WOODWASTE	11,400	10/11/84
23	12P001	OGDEN POWER PACIFIC, INC. (OROVILLE)	OROVILLE / BUTTE	4	WOODWASTE	18,000	9/26/85
24	25P026	RIO BRAVO FRESNO	FRESNO / FRESNO	4	WOODWASTE	26,500	7/20/88
25	15P028	RIO BRAVO ROCKLIN	ROCKLIN / PLACER	4	WOODWASTE	25,000	6/9/89

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

Table 2

Summary of Signed Contracts

January 2010

Small Power Projects - Operational and Currently Delivering

BIOMASS

No.	Log. No.	Project	City / County	Contract Type *	Primary Energy Source	Operating Size (kW)	Operating Start Date
26	13P163EO1	SIERRA PACIFIC IND. (ANDERSON)	ANDERSON / SHASTA	1	WOODWASTE	5,000	2/1/98
27	13C049	SIERRA PACIFIC IND. (BURNEY)	BURNEY / SHASTA	4	WOODWASTE	20,000	11/4/86
28	12C008	SIERRA PACIFIC IND. (LINCOLN)	LINCOLN / PLACER	4	WOODWASTE	7,500	6/3/86
29	10C018	SIERRA PACIFIC IND. (QUINCY)	QUINCY / PLUMAS	4	WOODWASTE	20,000	1/14/83
30	10C010	SIERRA PACIFIC IND.(SONORA)	SONORA / TUOLUMNE	4	WOODWASTE	7,500	1/1/09
31	16P054	THERMAL ENERGY DEV. CORP.	TRACY / SAN JOAQUIN	4	WOODWASTE	21,000	4/26/90
32	19C010	TOWN OF SCOTIA COMPANY, LLC (PACIFIC LUMBER)	SCOTIA / HUMBOLDT	1	WOODWASTE	28,800	3/22/86
33	13P045	WHEELABRATOR SHASTA	COTTONWOOD / SHASTA	4	WOODWASTE	54,900	10/30/87
34	06P022	WOODLAND BIOMASS	WOODLAND / YOLO	4	AGRICULTURAL WASTI	25,000	8/31/89
Total:						428,100	

GEOHERMAL

No.	Log. No.	Project	City / County	Contract Type *	Primary Energy Source	Operating Size (kW)	Operating Start Date
35	10G012EO1	AMEDEE GEOHERMAL VENTURE 1	WENDEL / LASSEN	4	GEOHERMAL	2,200	9/11/88
36	10G011	WINEAGLE DEVELOPERS 1	WENDEL / LASSEN	4	GEOHERMAL	700	6/11/85
Total:						2,900	

HYDRO

No.	Log. No.	Project	City / County	Contract Type *	Primary Energy Source	Operating Size (kW)	Operating Start Date
37	25H038EO1	AMERICAN ENERGY, INC. (WOLFSEN BYPASS)	LOS BANOS / MERCED	1	HYDRO	1,000	2/1/86
38	13H008	ARBUCKLE MOUNTAIN HYDRO	PLATINA / SHASTA	4	HYDRO	360	12/1/86
39	13H119	BAILEY CREEK RANCH	MANTON / SHASTA	3	HYDRO	800	5/26/82
40	19H002	BAKER STATION ASSOCIATES L.P.	BRIDGEVILLE / HUMBOLDT	4	HYDRO	1,500	12/10/87
41	12H054EO1	BROWNS VALLEY IRRIGATION DISTRICT	BROWNS VALLEY / YUBA	1	HYDRO	1,275	6/29/84
42	16H008	CALAVERAS CTY WD	SAN ANDREAS / CALAVERAS	1	HYDRO	3,300	4/15/86
43	16H092EO1	CALAVERAS YUBA HYDRO #1	MOKELUMNE HILL / CALAVERAS	3	HYDRO	90	4/15/86
44	16H177EO1	CALAVERAS YUBA HYDRO #2	CHILI GULCH / CALAVERAS	3	HYDRO	90	4/15/86

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Table 2

Summary of Signed Contracts

January 2010

Small Power Projects - Operational and Currently Delivering

HYDRO

No.	Log. No.	Project	City / County	Contract Type *	Primary Energy Source	Operating Size (kW)	Operating Start Date
45	16H178EO1	CALAVERAS YUBA HYDRO #3	CHILI GULCH / CALAVERAS	3	HYDRO	90	4/15/86
46	25H204	CANAL CREEK POWER PLANT (RETA)	MERCED / MERCED	1	HYDRO	900	11/1/82
47	15H068	CHARCOAL RAVINE	SIERRA CITY / SIERRA	3	HYDRO	75	2/13/86
48	13H132	DIGGER CREEK RANCH	MONTON / TEHAMA	1	HYDRO	600	5/18/83
49	04H062	E J M MCFADDEN	POTTER VALLEY / MENDOCINO	1	HYDRO	350	7/1/83
50	15H012	EAGLE HYDRO	GEORGETOWN / EL DORADO	1	HYDRO	550	12/23/85
51	15H006	EIF HAYPRESS LLC (MDL)	SIERRA CITY / SIERRA	4	HYDRO	8,700	4/15/89
52	15H005	EIF HAYPRESS, LLC (LWR)	SIERRA CITY / SIERRA	4	HYDRO	6,100	4/11/89
53	13H001	EL DORADO (MONTGOMERY CK)	MONTGOMERY CREEK / SHASTA	4	HYDRO	2,600	2/28/87
54	10H007	ERIC AND DEBBIE WATTENBURG	QUINCY / PLUMAS	1	HYDRO	275	4/6/85
55	25H193	FAIRFIELD POWER PLANT (PAPAZIAN)	MERCED / MERCED	1	HYDRO	900	8/2/83
56	04H011	FAR WEST POWER CORPORATION	POTTER VALLEY / MENDOCINO	4	HYDRO	400	9/30/87
57	10H010	FIVE BEARS HYDROELECTRIC	TAYLORSVILLE / PLUMAS	4	HYDRO	990	4/27/89
58	25H037	FRIANT POWER AUTHORITY	FRIANT / MADERA	4	HYDRO	25,000	4/16/85
59	13H123	HAT CREEK HEREFORD RANCH	HAT CREEK / SHASTA	3	HYDRO	100	12/9/82
60	15H002	HENWOOD ASSOCIATES	SIERRA CITY / SIERRA	4	HYDRO	594	11/28/84
61	19H051	HUMBOLDT BAY MWD	RUTH / TRINITY	1	HYDRO	2,000	4/10/83
62	10H013	HYPOWER, INC.	DE SABLE CITY / BUTTE	4	HYDRO	14,400	3/16/92
63	04H061	INDIAN VALLEY HYDRO	CLEAR LAKE / LAKE	1	HYDRO	3,335	9/15/83
64	16H095EO1	JACKSON VALLEY IRRIGATION DIST	IONE / AMADOR	1	HYDRO	455	9/1/82
65	10H059	JAMES B. PETER	TAYLORSVILLE / PLUMAS	3	HYDRO	35	1/17/84
66	10H090	JAMES CRANE HYDRO	CHICO / BUTTE	3	HYDRO	3	6/20/91
67	04H134	JOHN NEERHOUT JR.	CALISTOGA / NAPA	3	HYDRO	85	5/1/87
68	25H073	KERN HYDRO (OLCESE)	BAKERSFIELD / KERN	4	HYDRO	16,000	5/18/89
69	25H150	KINGS RIVER HYDRO CO.	FRESNO / FRESNO	4	HYDRO	1,000	8/19/90
70	10H002	LASSEN STATION HYDRO	PULGA / BUTTE	4	HYDRO	990	5/22/86
71	13H120	LOFTON RANCH	BIG BEND / SHASTA	1	HYDRO	300	11/4/83
72	25H040	MADERA CANAL (1174 + 84)	MADERA / MADERA	4	HYDRO	563	4/11/86
73	25H042	MADERA CANAL (1923)	MADERA / MADERA	4	HYDRO	925	4/1/86
74	25H041	MADERA CANAL STATION 1302	MADERA / MADERA	4	HYDRO	424	4/16/86

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

Table 2

Summary of Signed Contracts

January 2010

Small Power Projects - Operational and Currently Delivering

HYDRO

No.	Log. No.	Project	City / County	Contract Type *	Primary Energy Source	Operating Size (kW)	Operating Start Date
75	25H036	MADERA-CHOWCHILLA WATER AND POWER AUTHORITY	MADERA / MADERA	4	HYDRO	1,800	2/2/85
76	13H047	MALACHA HYDRO L.P.	PITVILLE / LASSEN	4	HYDRO	26,000	12/7/88
77	13H125	MEGA HYDRO #1 (CLOVER CREEK)	OAK RUN / SHASTA	4	HYDRO	1,000	2/21/86
78	13H122	MEGA HYDRO (GOOSE VALLEY RANCH)	BURNEY / SHASTA	4	HYDRO	280	4/8/83
79	13H017	MEGA RENEWABLES (BIDWELL DITCH)	BURNEY / SHASTA	4	HYDRO	2,000	2/22/87
80	13H015	MEGA RENEWABLES (HATCHET CRK)	MONTGOMERY CR. / SHASTA	4	HYDRO	7,000	1/5/87
81	13H014	MEGA RENEWABLES (ROARING CRK)	MONTGOMERY CREEK / SHASTA	4	HYDRO	2,000	12/5/86
82	13H036	MEGA RENEWABLES (SILVER SPRINGS)	BIG BEND / SHASTA	4	HYDRO	600	8/15/87
83	25H185	MERCED ID (PARKER)	MERCED / MERCED	1	HYDRO	2,690	9/23/81
84	19H006	MILL & SULPHUR CREEK	DINSMORE / HUMBOLDT	4	HYDRO	995	2/23/88
85	18H034EO1	MONTEREY CTY WATER RES AGENCY	SAN LUIS OBISPO / SAN LUIS OBISPO	1	HYDRO	3,750	7/13/87
86	13H042	NELSON CREEK POWER INC.	BIG BEND / SHASTA	4	HYDRO	1,100	12/19/88
87	15H015	NEVADA IRRIGATION DISTRICT/BOWMAN HYDROELECTRIC	NEVADA CITY / NEVADA	4	HYDRO	3,600	8/18/86
88	15H054EO1	NID/COMBIE SOUTH	PLACER CITY / PLACER	1	HYDRO	1,500	4/26/84
89	15H001EO1	NID/SCOTT'S FLAT	NEVADA CITY / NEVEDA	1	HYDRO	850	12/14/84
90	19H004EO1	NORMAN ROSS BURGESS	ZENIA / TRINITY	1	HYDRO	1,300	12/28/84
91	13H024	OLSEN POWER PARTNERS	WHITMORE / SHASTA	4	HYDRO	5,000	1/3/90
92	25H149	ORANGE COVE IRRIGATION DIST.	FRESNO / FRESNO	4	HYDRO	450	8/23/90
93	15H059	PLACER COUNTY WATER AGENCY	FOREST HILL / PLACER	1	HYDRO	500	4/30/83
94	06H011	ROCK CREEK L.P.	PLACERVILLE / EL DORADO	4	HYDRO	3,000	4/24/86
95	16H033	ROCK CREEK WATER DISTRICT	SALT SPRINGS VA / CALAVERAS	1	HYDRO	700	2/25/86
96	08H013	SANTA CLARA VALLEY WATER DIST.	MORGAN HILL / SANTA CLARA	4	HYDRO	800	12/1/88
97	16H030	SCHAADS HYDRO	WILSEYVILLE / CALAVERAS	1	HYDRO	230	2/18/86
98	19H048	SHAMROCK UTILITIES (CEDAR FLAT)	BURNT RANCH / TRINITY	4	HYDRO	300	1/9/84
99	13H012	SHAMROCK UTILITIES (CLOVER LEAF)	OAK RUN / SHASTA	4	HYDRO	200	2/1/85
100	15H055	SIERRA ENERGY	FORESTHILL / SONOMA	1	HYDRO	208	1/11/88
101	13H016	SNOW MOUNTAIN HYDRO LLC (BURNEY CREEK)	BURNEY / SHASTA	4	HYDRO	3,000	3/28/90
102	13H013	SNOW MOUNTAIN HYDRO LLC (COVE)	MONTGOMERY CR. / SHASTA	4	HYDRO	5,000	2/20/90
103	13H035	SNOW MOUNTAIN HYDRO LLC (PONDEROSA BAILEY CREMANTON)	SHASTA	4	HYDRO	1,100	2/25/90
104	16H094	SOUTH SAN JOAQUIN ID (FRANKENHEIMER)	OAKDALE / STANISLAUS	1	HYDRO	5,035	2/12/83

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

Table 2

Summary of Signed Contracts
January 2010
Small Power Projects - Operational and Currently Delivering

HYDRO

No.	Log. No.	Project	City / County	Contract Type *	Primary Energy Source	Operating Size (kW)	Operating Start Date
105	16H097	SOUTH SAN JOAQUIN ID (WOODWARD)	OAKDALE / STANISLAUS	1	HYDRO	2,850	4/16/82
106	12H004EO1	SOUTH SUTTER WATER	SHERIDAN / PLACER	1	HYDRO	395	7/17/85
107	13H130	STEVE & BONNIE TETRICK	MILLVILLE / SHASTA	3	HYDRO	100	10/14/83
108	12H007	STS HYDROPOWER LTD. (KANAKA)	FEATHER FALLS / BUTTE	4	HYDRO	1,100	2/13/89
109	13H039EO1	STS HYDROPOWER LTD. (KEKAWAKA)	ALDERPOINT / TRINITY	1	HYDRO	4,950	12/27/89
110	13H006	SUTTER'S MILL	SHINGLETOWN / SHASTA	1	HYDRO	150	6/25/85
111	15H069	SWISS AMERICA	AUBURN / PLACER	3	HYDRO	100	12/23/85
112	13H040	TKO POWER (SOUTH BEAR CREEK)	SHINGLETOWN / SHASTA	4	HYDRO	3,000	1/15/86
113	19H055	TOM BENNINGHOVEN	GARBERVILLE / HUMBOLDT	3	HYDRO	25	11/22/82
114	16H003	TRI-DAM AUTHORITY	SONORA / TUOLUMNE	4	HYDRO	16,200	5/19/86
115	04H052	VECINO VINEYARDS LLC	POTTER VALLEY / MENDOCINO	4	HYDRO	330	3/27/90
116	13H124	WATER WHEEL RANCH	MONTGOMERY CREEK / SHASTA	4	HYDRO	975	3/22/84
117	15H072	WRIGHT RANCH HYDROELECTRIC	WRIGHT RANCH / SIERRA	3	HYDRO	40	11/22/85
118	10H060	YOUTH WITH A MISSION/SPRINGS OF LIVING WATERS	CHICO / BUTTE	1	HYDRO	300	1/26/83
119	12H010	YUBA COUNTY WATER (DEADWOOD CREEK)	CHALLENGE / YUBA	4	HYDRO	2,000	1/29/90
120	12H006	YUBA COUNTY WATER AGENCY	MARYSVILLE / YUBA	4	HYDRO	150	9/30/86
Total:						211,807	

SOLAR

No.	Log. No.	Project	City / County	Contract Type *	Primary Energy Source	Operating Size (kW)	Operating Start Date
121	04S142	ROBIN WILLIAMS SOLAR POWER GEN	NAPA / NAPA	3	PHOTOVOLTAIC	7	4/16/93
Total:						7	

WASTE TO ENERGY

No.	Log. No.	Project	City / County	Contract Type *	Primary Energy Source	Operating Size (kW)	Operating Start Date
122	25C062	DOLE ENTERPRISES, INC	KERN / KERN	3	WASTE GAS	50	2/5/91
123	01P049	GWF POWER SYSTEMS INC. #1	PITTSBURG / CONTRA COSTA	4	PETROLEUM COKE	17,740	12/7/90

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Table 2

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January 2010

Small Power Projects - Operational and Currently Delivering

WASTE TO ENERGY

No.	Log. No.	Project	City / County	Contract Type *	Primary Energy Source	Operating Size (kW)	Operating Start Date
124	01P086	GWF POWER SYSTEMS INC. #2	PITTSBURG / CONTRA COSTA	4	PETROLEUM COKE	17,740	12/22/89
125	01P091	GWF POWER SYSTEMS INC. #3	ANTIOCH / CONTRA COSTA	4	PETROLEUM COKE	17,740	8/27/90
126	01P051	GWF POWER SYSTEMS INC. #4	ANTIOCH / CONTRA COSTA	4	PETROLEUM COKE	17,740	10/10/89
127	01P087	GWF POWER SYSTEMS INC. #5	PITTSBURG / CONTRA COSTA	4	PETROLEUM COKE	17,740	3/17/90
128	25C136	HANFORD L.P.	HANFORD / KINGS	4	PETROLEUM COKE	23,000	9/26/90
Total:						111,750	

WIND

No.	Log. No.	Project	City / County	Contract Type *	Primary Energy Source	Operating Size (kW)	Operating Start Date
129	16W009	ALTAMONT MIDWAY LTD.	ALTAMONT PASS / SAN JOAQUIN	4	WIND	12,500	4/16/85
130	16W014	ALTAMONT POWER LLC (3-4)	LIVERMORE / ALAMEDA	4	WIND	4,050	4/11/85
131	16W015	ALTAMONT POWER LLC (4-4)	ALTAMONT PASS / ALAMEDA	4	WIND	18,960	1/1/87
132	16W017	ALTAMONT POWER LLC (6-4)	ALTAMONT PASS / ALAMEDA	4	WIND	18,990	1/1/87
133	01W119	DONALD R. CHENOWETH	LIVERMORE / ALAMEDA	3	WIND	10	8/2/82
134	06W148	GREEN RIDGE POWER LLC (10 MW)	MONTEZUMA HILLS / SOLANO	4	WIND	10,000	1/1/90
135	01W146A	GREEN RIDGE POWER LLC (100 MW - A)	TRACY / SAN JOAQUIN	4	WIND	43,100	1/1/88
136	01W146C	GREEN RIDGE POWER LLC (100 MW - C)	TRACY / SAN JOAQUIN	4	WIND	11,900	1/2/90
137	01W146D	GREEN RIDGE POWER LLC (100 MW - D)	TRACY / SAN JOAQUIN	4	WIND	15,000	1/1/91
138	01W004	GREEN RIDGE POWER LLC (110 MW)	LIVERMORE / ALAMEDA	4	WIND	222,400	1/1/86
139	16W011	GREEN RIDGE POWER LLC (23.8 MW)	TRACY / SAN JOAQUIN	4	WIND	10,800	1/5/87
140	01W018	GREEN RIDGE POWER LLC (5.9 MW)	TRACY / SAN JOAQUIN	4	WIND	5,900	3/2/88
141	06W146B	GREEN RIDGE POWER LLC (70 MW - B)	BENECIA / SOLANO	4	WIND	18,500	1/1/90
142	06W146C	GREEN RIDGE POWER LLC (70 MW - C)	BENECIA / SOLANO	4	WIND	30,000	1/1/91
143	06W146D	GREEN RIDGE POWER LLC (70 MW - D)	BENECIA / SOLANO	4	WIND	1,500	1/1/91
144	01W035	GREEN RIDGE POWER LLC (70 MW)	LIVERMORE / ALAMEDA	4	WIND	54,000	4/1/87
145	25W105	INTERNATIONAL TURBINE RESEARCH	PACHECO PASS / MERCED	4	WIND	16,000	6/14/88
146	01W095	NORTHWIND ENERGY	ALTAMONT / CONTRA COSTA	4	WIND	15,500	1/4/86
147	16W028	PATTERSON PASS WIND FARM LLC	ALTAMONT PASS / SAN JOAQUIN	4	WIND	22,000	4/2/85
148	01W011	SEA WEST ENERGY - ALTECH	ALTAMONT PASS / SAN JOAQUIN	4	WIND	5,760	1/22/83

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Summary of Signed Contracts

January 2010

Small Power Projects - Operational and Currently Delivering

WIND

No.	Log. No.	Project	City / County	Contract Type *	Primary Energy Source	Operating Size (kW)	Operating Start Date
149	01W007	SEA WEST ENERGY - CWES	ALTAMONT PASS / SAN JOAQUIN	4	WIND	2,100	1/22/83
150	01W006	SEA WEST ENERGY - SEAWEST	ALTAMONT PASS / SAN JOAQUIN	4	WIND	65	1/22/83
151	01W015	SEA WEST ENERGY - TAXVEST	ALTAMONT PASS / SAN JOAQUIN	4	WIND	715	1/22/83
152	01W014	SEA WEST ENERGY - VIKING	ALTAMONT PASS / SAN JOAQUIN	4	WIND	1,690	1/22/83
153	01W012	SEA WEST ENERGY - WESTERN	ALTAMONT PASS / SAN JOAQUIN	4	WIND	2,700	1/22/83
154	01W094	TRES VAQUEROS WIND FARMS, LLC	ALTAMONT PASS / CONTRA COSTA	4	WIND	28,000	1/4/86
Total:						<u>572,140</u>	

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