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Pacific Gas and Electric Company

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

January 2016

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PACIFIC GAS AND ELECTRIC COMPANY

SUMMARY OF PROJECTS

January 2016

Project Type	Contracts	
	Currently Delivering*	
	Number of Projects	Contract Capacity (kW)
COGENERATOR	36	1,051,117
SMALL POWER PRODUCERS		
BIOGAS	3	15,490
BIOMASS	9	242,650
GEOTHERMAL	0	0
HYDRO	40	157,993
SOLAR	1	7
WIND	11	206,360
<b>Total</b>	<b>100</b>	<b>1,673,617</b>

PROJECTS TERMINATED/EXPIRED DURING THE HALF YEAR

All Project Types	Number of Projects	Contract Capacity (kW)
<b>Total</b>	<b>13</b>	<b>454,200</b>

\*Includes active contracts (not terminated or expired as of 11:59 pm on December 31, 2015) that have delivered within the last twelve months as either a Qualifying Cogeneration Facility or a Small Power Production Facility as defined by the Public Utility Regulatory Act ("PURPA").

Table 1  
SUMMARY OF SIGNED CONTRACTS  
**COGENERATION PROJECTS - OPERATIONAL AND CURRENTLY DELIVERING**  
January 2016

**COGENERATOR**

No.	Log. No.	Project Name	City / County	Contract Type*	Primary Energy Source	Contract Capacity(kW)	Operating Start Date	Enhanced Oil Recovery
		<b>20 MW OR LESS</b>						
1	02C048	1080 CHESTNUT CORP.	SAN FRANCISCO / SAN FRANCISCO	3	NATURAL GAS	30	3/23/1988	
2	25C249	AERA ENERGY LLC (COALINGA)	COALINGA / FRESNO	1	NATURAL GAS	8,500	6/3/1988	Yes
3	04C140	AIRPORT CLUB	SANTA ROSA / SONOMA	3	NATURAL GAS	60	8/27/1992	
4	02C047	ARDEN WOOD BENEVOLENT ASSOC.	SAN FRANCISCO / SAN FRANCISCO	3	NATURAL GAS	90	9/9/1987	
5	25C151QPA	BERRY PETROLEUM COMPANY - TANNEHILL	MARICOPA / KERN	P	NATURAL GAS	15,200	10/1/2012	Yes
6	25C055	CHEVRON USA (COALINGA)	COALINGA / FRESNO	1	NATURAL GAS	16,500	11/7/1986	Yes
7	25C003	CHEVRON USA (CYMRIC)	CYMRIC / KERN	1	NATURAL GAS	16,000	10/15/1982	Yes
8	25C002	CHEVRON USA (TAFT/CADET)	TAFT / KERN	1	NATURAL GAS	10,000	7/26/1982	Yes
9	08C097	CITY OF MILPITAS	MILPITAS / SANTA CLARA	3	NATURAL GAS	60	10/6/1989	
10	08C071	COUNTY OF SANTA CRUZ (WATER ST. JAIL)	SANTA CRUZ / SANTA CRUZ	1	NATURAL GAS	180	9/1/1987	
11	01C108	ECO SERVICES OPERATIONS LLC	MARTINEZ / CONTRA COSTA	1	NATURAL GAS	5,000	6/7/1977	
12	25C293	FREEMPORT-MCMORAN OIL AND GAS LLC (DOME)	FELLOWS / KERN	1	NATURAL GAS	6,064	9/2/1988	Yes
13	25C063QPA	FRITO-LAY COGEN	BAKERSFIELD / KERN	P	NATURAL GAS	2,000	10/1/2012	
14	04C130	GREATER VALLEJO RECREATION DISTRICT	VALLEJO / SOLANO	3	NATURAL GAS	60	8/15/1985	
15	01C201	HAYWARD AREA REC & PARK DIST.	HAYWARD / ALAMEDA	3	NATURAL GAS	60	2/2/1988	
16	02C058	NIHONMACHI TERRACE	SAN FRANCISCO / SAN FRANCISCO	3	NATURAL GAS	75	6/1/1992	
17	01C199	SATELLITE SENIOR HOMES	OAKLAND / ALAMEDA	3	NATURAL GAS	60	7/6/1989	
18	02C041	SRI INTERNATIONAL	MENLO PARK / SAN MATEO	1	NATURAL GAS	6,000	3/10/1987	
19	25C138QPA	WESTERN POWER AND STEAM, INC.	BAKERSFIELD / KERN	P	NATURAL GAS	18,650	10/1/2015	Yes
20	12C085	YUBA CITY RACQUET CLUB	YUBA CITY / SUTTER	3	NATURAL GAS	60	7/18/1991	
					<b>SUBTOTAL</b>	<u>104,649</u>		

\*Contract Type: 1=Standard Offer 1, 2=Standard Offer 2, 3=Standard Offer 3, 4=Standard Offer 4, P=PURPA, T=Transition

\*\*These projects amended their Standard Offer PPAs and are now operating as Exempt Wholesale Generators

Table 1  
SUMMARY OF SIGNED CONTRACTS  
**COGENERATION PROJECTS - OPERATIONAL AND CURRENTLY DELIVERING**  
January 2016

**COGENERATOR**

No.	Log. No.	Project Name	City / County	Contract Type*	Primary Energy Source	Contract Capacity(kW)	Operating Start Date	Enhanced Oil Recovery
<b>GREATER THAN 20 MW</b>								
21	18C006	CALPINE KING CITY COGEN	KING CITY / MONTEREY	4	NATURAL GAS	120,000	3/14/1989	
22	25C248	CHEVRON USA (EASTRIDGE)	BAKERSFIELD / KERN	1	NATURAL GAS	48,800	6/13/1988	Yes
23	25C246	CHEVRON USA (SE KERN RIVER)	BAKERSFIELD / KERN	1	NATURAL GAS	34,468	1/31/1989	Yes
24	25C124QTR	COALINGA COGENERATION COMPANY	COALINGA / FRESNO	T	NATURAL GAS	40,200	12/1/2011	Yes
25	01C045	CROCKETT COGEN	CROCKETT / CONTRA COSTA	4	NATURAL GAS	260,000	12/20/1995	
26	25C092**	FRESNO COGENERATION PARTNERS, LP	FRESNO / FRESNO	2	NATURAL GAS	33,000	12/27/1989	
27	12C020**	GREENLEAF UNIT #1	YUBA CITY / SUTTER	4	NATURAL GAS	49,200	1/11/1989	
28	12C021	GREENLEAF UNIT #2	YUBA CITY / SUTTER	4	NATURAL GAS	49,500	10/12/1989	
29	25C123QTR	MID-SET COGENERATION COMPANY	FELLOWS / KERN	T	NATURAL GAS	37,500	12/1/2011	Yes
30	01C084	PE - BERKELEY, INC.	BERKELEY / ALAMEDA	4	NATURAL GAS	26,350	5/19/1987	
31	25C164**	PE - KES KINGSBURG, LLC.	KINGSBURG / FRESNO	2	NATURAL GAS	34,500	12/5/1990	
32	01C061	PHILLIPS 66	RODEO / CONTRA COSTA	1	NATURAL GAS	49,850	5/21/1987	
33	18C053QTR	SALINAS RIVER COGENERATION COMPANY	SAN ARDO / MONTEREY	T	NATURAL GAS	36,800	12/1/2011	Yes
34	25C016	SANGER POWER, LLC	SANGER / FRESNO	2	NATURAL GAS	42,000	12/11/1990	
35	18C052QTR	SARGENT CANYON COGENERATION COMPANY	SAN ARDO / MONTEREY	T	NATURAL GAS	35,300	12/1/2011	Yes
36	12C026**	YUBA CITY COGEN PARTNERS, L.P.	YUBA CITY / SUTTER	4	NATURAL GAS	49,000	12/27/1990	
<b>SUBTOTAL</b>						<u>946,468</u>		
<b>TOTAL</b>						<b>1,051,117</b>		

\*Contract Type: 1=Standard Offer 1, 2=Standard Offer 2, 3=Standard Offer 3, 4=Standard Offer 4, P=PURPA, T=Transition

\*\*These projects amended their Standard Offer PPAs and are now operating as Exempt Wholesale Generators

Table 2  
SUMMARY OF SIGNED CONTRACTS  
SMALL POWER PROJECTS- OPERATIONAL AND CURRENTLY DELIVERING  
January 2016

**BIOGAS**

No.	Log. No.	Project Name	City / County	Contract Type*	Primary Energy Source	Contract Capacity(kW)	Operating Start Date
<b>20 MW OR LESS</b>							
1	08C078	CITY OF WATSONVILLE	WATSONVILLE / SANTA CRUZ	1	BIOGAS	550	1/23/1993
2	18C001	MONTEREY REGIONAL WATER	MARINA / MONTEREY	1	BIOGAS	1,740	8/26/1988
3	01P219	WASTE MANAGEMENT RENEWABLE ENERGY	LIVERMORE / ALAMEDA	1	BIOGAS	13,200	5/4/1989
						<b>SUBTOTAL</b>	<u>15,490</u>
						<b>TOTAL</b>	15,490

**BIOMASS**

No.	Log. No.	Project Name	City / County	Contract Type*	Primary Energy Source	Contract Capacity(kW)	Operating Start Date
<b>20 MW OR LESS</b>							
1	10C003	COLLINS PINE	CHESTER / PLUMAS	2	BIOMASS	12,000	4/4/1984
2	19P005	DG FAIRHAVEN POWER, LLC	FAIRHAVEN / HUMBOLDT	4	BIOMASS	17,250	9/15/1986
						<b>SUBTOTAL</b>	<u>29,250</u>
<b>GREATER THAN 20 MW</b>							
3	13C038	BURNEY FOREST PRODUCTS	BURNEY / SHASTA	4	BIOMASS	31,000	10/17/1989
4	10P005	HL POWER	WENDEL / LASSEN	4	BIOMASS	32,000	7/26/1989
5	19C010	HUMBOLDT REDWOOD COMPANY	SCOTIA / HUMBOLDT	1	BIOMASS	22,000	3/22/1986
6	16P002	PACIFIC-ULTRAPOWER CHINESE STATION	JAMESTOWN / TUOLUMNE	4	BIOMASS	22,000	6/4/1986
7	25P026	RIO BRAVO FRESNO	FRESNO / FRESNO	4	BIOMASS	26,500	7/20/1988
8	15P028	RIO BRAVO ROCKLIN	ROCKLIN / PLACER	4	BIOMASS	25,000	6/9/1989
9	13P045	WHEELABRATOR SHASTA	ANDERSON / SHASTA	4	BIOMASS	54,900	10/30/1987
						<b>SUBTOTAL</b>	<u>213,400</u>
						<b>TOTAL</b>	242,650

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Table 2  
SUMMARY OF SIGNED CONTRACTS  
SMALL POWER PROJECTS- OPERATIONAL AND CURRENTLY DELIVERING  
January 2016

		HYDRO					
No.	Log. No.	Project Name	City / County	Contract Type*	Primary Energy Source	Contract Capacity(kW)	Operating Start Date
<b>20 MW OR LESS</b>							
1	12H010	DEADWOOD CREEK (HYDRO SIERRA ENERGY, LLC)	CHALLENGE / YUBA	4	HYDRO	2,000	1/29/1990
2	15H012	EAGLE HYDRO	GREENWOOD / EL DORADO	1	HYDRO	480	12/23/1985
3	15H005	EIF HAYPRESS LLC (LWR)	SIERRA CITY / SIERRA	4	HYDRO	6,100	4/11/1989
4	15H006	EIF HAYPRESS LLC (MDL)	SIERRA CITY / SIERRA	4	HYDRO	8,700	4/15/1989
5	13H001	EL DORADO HYDRO LLC (MONTGOMERY CREEK)	POLLOCK PINES / EL DORADO	4	HYDRO	2,600	2/28/1987
6	10H007	ERIC AND DEBBIE WATTENBURG	QUINCY / PLUMAS	1	HYDRO	275	4/6/1985
7	13H123	HAT CREEK HEREFORD RANCH	HAT CREEK / SHASTA	3	HYDRO	100	12/9/1982
8	19H051	HUMBOLDT BAY MWD	RUTH / TRINITY	1	HYDRO	2,000	4/10/1983
9	10H013	HYPOWER, INC.	DE SABLE / BUTTE	4	HYDRO	10,800	3/16/1992
10	10H059	JAMES B. PETER	GREENVILLE / PLUMAS	3	HYDRO	15	1/17/1984
11	10H090	JAMES CRANE HYDRO	FOREST RANCH / BUTTE	3	HYDRO	3	6/20/1991
12	04H134	JOHN NEERHOUT JR.	CALISTOGA / NAPA	3	HYDRO	85	5/1/1987
13	10H002	LASSEN STATION HYDRO	OROVILLE / BUTTE	4	HYDRO	990	5/22/1986
14	13H120	LOFTON RANCH	BIG BEND / SHASTA	1	HYDRO	300	11/4/1983
15	13H125	MEGA HYDRO #1 (CLOVER CREEK)	OAK RUN / SHASTA	4	HYDRO	1,000	2/21/1986
16	13H017	MEGA RENEWABLES (BIDWELL DITCH)	BURNEY / SHASTA	4	HYDRO	2,000	2/22/1987
17	13H015	MEGA RENEWABLES (HATCHET CRK)	MONTGOMERY CREEK / SHASTA	4	HYDRO	7,000	1/5/1987
18	13H014	MEGA RENEWABLES (ROARING CRK)	MONTGOMERY CREEK / SHASTA	4	HYDRO	2,000	12/5/1986
19	13H036	MEGA RENEWABLES (SILVER SPRINGS)	BIG BEND / SHASTA	4	HYDRO	600	8/15/1987
20	13H042	NELSON CREEK POWER INC.	BIG BEND / SHASTA	4	HYDRO	1,100	12/19/1988
21	15H015	NEVADA IRRIGATION DISTRICT/BOWMAN	NEVADA CITY / NEVADA	4	HYDRO	3,600	8/18/1986
22	25H073	OLCESE WATER DISTRICT	BAKERSFIELD / KERN	4	HYDRO	16,000	5/18/1989
23	13H024	OLSEN POWER PARTNERS	WHITMORE / SHASTA	4	HYDRO	5,000	11/10/1989
24	25H149	ORANGE COVE IRRIGATION DIST.	FRIANT / FRESNO	4	HYDRO	450	8/23/1990
25	06H011	ROCK CREEK LLC	PLACERVILLE / EL DORADO	4	HYDRO	3,000	4/24/1986
26	16H033	ROCK CREEK WATER DISTRICT	FARMINGTON / CALAVERAS	1	HYDRO	700	2/25/1986
27	16H030	SCHAADS HYDRO	WILSEYVILLE / CALAVERAS	1	HYDRO	230	2/18/1986
28	13H016	SNOW MOUNTAIN HYDRO LLC (BURNEY CREEK)	BURNEY / SHASTA	4	HYDRO	3,000	3/28/1990
29	13H013	SNOW MOUNTAIN HYDRO LLC (COVE)	MONTGOMERY CREEK / SHASTA	4	HYDRO	5,000	2/20/1990
30	13H035	SNOW MOUNTAIN HYDRO LLC (PONDEROSA BAILEY CREEK)	MANTON / SHASTA	4	HYDRO	1,100	2/25/1990
31	12H007	STS HYDROPOWER (KANAKA)	OROVILLE / BUTTE	4	HYDRO	1,100	2/13/1989
32	13H006	SUTTER'S MILL	SHINGLETOWN / SHASTA	1	HYDRO	150	6/25/1985
33	15H069	SWISS AMERICA	AUBURN / PLACER	3	HYDRO	100	12/23/1985
34	13H040	TKO POWER (SOUTH FORK BEAR CREEK)	SHINGLETOWN / SHASTA	4	HYDRO	3,000	1/15/1986
35	19H055	TOM BENNINGHOVEN	ZENIA / HUMBOLDT	3	HYDRO	25	11/22/1982
36	16H003	TRI-DAM AUTHORITY	STRAWBERRY / TUOLUMNE	4	HYDRO	16,200	5/19/1986
37	15H072	WRIGHT RANCH HYDROELECTRIC	GOODYEARS BAR / SIERRA	3	HYDRO	40	11/22/1985
38	12H006	YUBA COUNTY WATER AGENCY (FISH RELEASE)	DOBBINS / YUBA	4	HYDRO	150	9/30/1986
						<b>SUBTOTAL</b>	106,993
<b>HYDRO</b>							
No.	Log. No.	Project Name	City / County	Contract Type*	Primary Energy Source	Contract Capacity(kW)	Operating Start Date
<b>GREATER THAN 20 MW</b>							
39	25H037	FRIANT POWER AUTHORITY	FRIANT / FRESNO	4	HYDRO	25,000	4/16/1985
40	13H047	MALACHA HYDRO L.P.	PITVILLE / LASSEN	4	HYDRO	26,000	12/7/1988
						<b>SUBTOTAL</b>	51,000
						<b>TOTAL</b>	157,993

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Table 2  
SUMMARY OF SIGNED CONTRACTS  
SMALL POWER PROJECTS- OPERATIONAL AND CURRENTLY DELIVERING  
January 2016

**SOLAR**

No.	Log. No.	Project Name	City / County	Contract Type*	Primary Energy Source	Contract Capacity(kW)	Operating Start Date
<b>20 MW OR LESS</b>							
1	04S142	VILLA SORRISO SOLAR	NAPA / NAPA	3	SOLAR	7	4/16/1993
						<b>SUBTOTAL</b>	<u>7</u>
						<b>TOTAL</b>	<u>7</u>

**WIND**

No.	Log. No.	Project Name	City / County	Contract Type*	Primary Energy Source	Contract Capacity(kW)	Operating Start Date
<b>20 MW OR LESS</b>							
1	16W014	ALTAMONT POWER LLC (3-4)	TRACY / SAN JOAQUIN	4	WIND	4,050	4/11/1985
2	16W015	ALTAMONT POWER LLC (4-4)	TRACY / SAN JOAQUIN	4	WIND	19,000	1/1/1987
3	16W017	ALTAMONT POWER LLC (6-4)	TRACY / SAN JOAQUIN	4	WIND	19,000	1/1/1987
4	01W119	DONALD R. CHENOWETH	LIVERMORE / ALAMEDA	3	WIND	10	8/2/1982
5	06W148	EDF RENEWABLE WINDFARM V, INC. (10 MW)	SUISUN CITY / SOLANO	4	WIND	10,000	1/1/1990
6	06W146C	EDF RENEWABLE WINDFARM V, INC. (70 MW - C)	SUISUN CITY / SOLANO	4	WIND	6,500	1/1/1991
7	16W011	GREEN RIDGE POWER LLC (23.8 MW)	TRACY / ALAMEDA	4	WIND	10,800	1/5/1987
8	01W018	GREEN RIDGE POWER LLC (5.9 MW)	TRACY / SAN JOAQUIN	4	WIND	5,900	3/2/1988
						<b>SUBTOTAL</b>	<u>75,260</u>

**WIND**

<b>GREATER THAN 20 MW</b>							
9	01W146A	GREEN RIDGE POWER LLC (100 MW - A)	TRACY / SAN JOAQUIN	4	WIND	43,100	1/1/1988
10	01W035	GREEN RIDGE POWER LLC (70 MW)	TRACY / SAN JOAQUIN	4	WIND	54,000	4/1/1987
11	25W105	INTERNATIONAL TURBINE RESEARCH	PACHECO PASS / MERCED	4	WIND	34,000	6/14/1988
						<b>SUBTOTAL</b>	<u>131,100</u>
						<b>TOTAL</b>	<u>206,360</u>

\*Contract Type: 1=Standard Offer 1, 2=Standard Offer 2, 3=Standard Offer 3, 4=Standard Offer 4, P=PURPA, T=Transition

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