
Pacific Gas and Electric Company

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

July 2017

PACIFIC GAS AND ELECTRIC COMPANY

SUMMARY OF PROJECTS

July 2017

Project Type	Contracts Currently Delivering*	
	Number of Projects	Contract Capacity (kW)
COGENERATOR	29	859,077
SMALL POWER PRODUCERS		
BIOGAS	3	15,490
BIOMASS	4	137,400
GEOTHERMAL	0	-
HYDRO	31	95,597
SOLAR	1	7
WIND	4	50,510
Total	<u>72</u>	<u>1,158,081</u>

PROJECTS TERMINATED/EXPIRED DURING THE HALF YEAR

All Project Types	Number of Projects	Contract Capacity (kW)
Total	15	318,450

*Includes active contracts (not terminated or expired as of 11:59 pm on June 30, 2017) 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
July 2017

COGENERATOR								
No.	Log. No.	Project Name	City / County	Contract Type*	Primary Energy Source	Contract Capacity(kW)	Operating Start Date	Enhanced Oil Recovery
20 MW OR LESS								
1	02C048	1080 CHESTNUT CORP.	SAN FRANCISCO / SAN FRANCISCO	3	NATURAL GAS	30	3/23/1988	
2	25C249	AERA ENERGY (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 U.S.A. (COALINGA)	COALINGA / FRESNO	1	NATURAL GAS	16,500	11/7/1986	Yes
7	25C003	CHEVRON U.S.A. (CYMRIC)	CYMRIC / KERN	1	NATURAL GAS	16,000	10/15/1982	Yes
8	25C002	CHEVRON U.S.A. (TAFT/CADET)	TAFT / KERN	1	NATURAL GAS	10,000	7/26/1982	Yes
9	01C108	ECO SERVICES OPERATIONS LLC	MARTINEZ / CONTRA COSTA	1	NATURAL GAS	5,000	6/7/1977	
10	25C293	FREEMPORT-MCMORAN OIL AND GAS (DOME)	FELLOWS / KERN	1	NATURAL GAS	6,064	9/2/1988	Yes
11	25C063QPA	FRITO LAY COGEN	BAKERSFIELD / KERN	P	NATURAL GAS	2,000	10/1/2012	
12	04C130	GREATER VALLEJO RECREATION DISTRICT	VALLEJO / SOLANO	3	NATURAL GAS	60	8/15/1985	
13	01C201	HAYWARD AREA REC & PARK DIST.	HAYWARD / ALAMEDA	3	NATURAL GAS	60	2/2/1988	
14	02C058	NIHONMACHI TERRACE	SAN FRANCISCO / SAN FRANCISCO	3	NATURAL GAS	75	6/1/1992	
15	01C245	ORINDA SENIOR VILLAGE	ORINDA / CONTRA COSTA	3	NATURAL GAS	60	2/6/1991	
16	01C199	SATELLITE SENIOR HOMES	OAKLAND / ALAMEDA	3	NATURAL GAS	60	7/6/1989	
17	02C041	SRI INTERNATIONAL	MENLO PARK / SAN MATEO	1	NATURAL GAS	6,000	3/10/1987	
18	25C138QPA	WESTERN POWER AND STEAM, INC.	BAKERSFIELD / KERN	P	NATURAL GAS	18,650	10/1/2015	Yes
SUBTOTAL						104,409		
GREATER THAN 20 MW								
19	18C006	CALPINE KING CITY COGEN	KING CITY / MONTEREY	4	NATURAL GAS	120,000	3/14/1989	
20	25C248	CHEVRON U.S.A. (EASTRIDGE)	BAKERSFIELD / KERN	1	NATURAL GAS	48,800	6/13/1988	Yes
21	25C246	CHEVRON U.S.A. (SE KERN RIVER)	BAKERSFIELD / KERN	1	NATURAL GAS	34,468	1/31/1989	Yes
22	01C045	CROCKETT COGENERATION	CROCKETT / CONTRA COSTA	4	NATURAL GAS	260,000	12/20/1995	
23	25C092**	FRESNO COGENERATION PARTNERS, LP	FRESNO / FRESNO	2	NATURAL GAS	33,000	12/27/1989	
24	12C020**	GREENLEAF UNIT #1	YUBA CITY / SUTTER	4	NATURAL GAS	49,200	1/11/1989	
25	12C021	GREENLEAF UNIT #2	YUBA CITY / SUTTER	4	NATURAL GAS	49,500	10/12/1989	
26	01C084	PE - BERKELEY, INC.	BERKELEY / ALAMEDA	4	NATURAL GAS	26,350	5/19/1987	
27	25C164**	PE - KES KINGSBURG	KINGSBURG / FRESNO	2	NATURAL GAS	34,500	12/5/1990	
28	01C061	PHILLIPS 66	RODEO / CONTRA COSTA	1	NATURAL GAS	49,850	5/21/1987	
29	12C026**	YUBA CITY COGEN PARTNERS	YUBA CITY / SUTTER	4	NATURAL GAS	49,000	12/27/1990	
SUBTOTAL						754,668		
TOTAL						859,077		

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

**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
July 2017

BIOGAS

No.	Log. No.	Project Name	City / County	Contract Type*	Primary Energy Source	Contract Capacity(kW)	Operating Start Date
20 MW OR LESS							
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	<u>13,200</u>	5/4/1989
SUBTOTAL						<u>15,490</u>	
TOTAL						15,490	

BIOMASS

No.	Log. No.	Project Name	City / County	Contract Type*	Primary Energy Source	Contract Capacity(kW)	Operating Start Date
GREATER THAN 20 MW							
1	13C038	BURNEY FOREST PRODUCTS	BURNEY / SHASTA	4	BIOMASS	31,000	10/17/1989
2	25P026	RIO BRAVO FRESNO	FRESNO / FRESNO	4	BIOMASS	26,500	7/20/1988
3	15P028	RIO BRAVO ROCKLIN	ROCKLIN / PLACER	4	BIOMASS	25,000	6/9/1989
4	13P045	WHEELABRATOR SHASTA	ANDERSON / SHASTA	4	BIOMASS	<u>54,900</u>	10/30/1987
SUBTOTAL						<u>137,400</u>	
TOTAL						137,400	

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July 2017

HYDRO

No.	Log. No.	Project Name	City / County	Contract Type*	Primary Energy Source	Contract Capacity(kW)	Operating Start Date	Enhanced Oil Recovery
20 MW OR LESS								
1	15H068	CHARCOAL RAVINE	SIERRA CITY / SIERRA	3	HYDRO	75	2/13/1986	
2	12H010	DEADWOOD CREEK	CHALLENGE / YUBA	4	HYDRO	2,000	1/29/1990	
3	15H005	EIF HAYPRESS (LWR)	SIERRA CITY / SIERRA	4	HYDRO	6,100	4/11/1989	
4	15H006	EIF HAYPRESS (MDL)	SIERRA CITY / SIERRA	4	HYDRO	8,700	4/15/1989	
5	13H001QPA	EL DORADO HYDRO (MONTGOMERY CREEK)	POLLOCK PINES / EL DORADO	P	HYDRO	2,800	3/1/2017	
6	10H010	FIVE BEARS HYDROELECTRIC	GENESEE VALLEY / PLUMAS	4	HYDRO	990	4/27/1989	
7	10H007	GANSNER HYDROELECTRIC PROJECT	QUINCY / PLUMAS	1	HYDRO	275	4/6/1985	
8	13H123	HAT CREEK HEREFORD RANCH	HAT CREEK / SHASTA	3	HYDRO	100	12/9/1982	
9	13H125QPA	HYDRO PARTNERS (CLOVER CREEK)	OAK RUN / SHASTA	P	HYDRO	999	4/1/2016	
10	10H013	HYPOWER, INC.	DE SABLA / BUTTE	4	HYDRO	10,800	3/16/1992	
11	10H059	JAMES B. PETER	GREENVILLE / PLUMAS	3	HYDRO	15	1/17/1984	
12	10H090	JAMES CRANE HYDRO	FOREST RANCH / BUTTE	3	HYDRO	3	6/20/1991	
13	04H134	JOHN NEERHOUT JR.	CALISTOGA / NAPA	3	HYDRO	85	5/1/1987	
14	25H150	KINGS RIVER HYDRO CO.	SANGER / FRESNO	4	HYDRO	1,000	8/19/1990	
15	13H120	LOFTON RANCH	BIG BEND / SHASTA	1	HYDRO	300	11/4/1983	
16	13H036	MEGA RENEWABLES (SILVER SPRINGS)	BIG BEND / SHASTA	4	HYDRO	600	8/15/1987	
17	13H042	NELSON CREEK POWER INC.	BIG BEND / SHASTA	4	HYDRO	1,100	12/19/1988	
18	25H073	OLCESE WATER DISTRICT	BAKERSFIELD / KERN	4	HYDRO	16,000	5/18/1989	
19	13H024	OLSEN POWER PARTNERS	WHITMORE / SHASTA	4	HYDRO	5,000	11/10/1989	
20	25H149	ORANGE COVE IRRIGATION DIST.	FRIANT / FRESNO	4	HYDRO	450	8/23/1990	
21	16H033	ROCK CREEK WATER DISTRICT	FARMINGTON / CALAVERAS	1	HYDRO	700	2/25/1986	
22	08H013	SANTA CLARA VALLEY WATER DIST.	MORGAN HILL / SANTA CLARA	4	HYDRO	800	12/1/1988	
23	16H030	SCHAADS HYDRO	WILSEVILLE / CALAVERAS	1	HYDRO	230	2/18/1986	
24	13H016	SNOW MOUNTAIN HYDRO (BURNEY CREEK)	BURNEY / SHASTA	4	HYDRO	3,000	3/28/1990	
25	13H013	SNOW MOUNTAIN HYDRO (COVE)	MONTGOMERY CREEK / SHASTA	4	HYDRO	5,000	2/20/1990	
26	13H035	SNOW MOUNTAIN HYDRO (PONDEROSA BAILEY CREEK)	MANTON / SHASTA	4	HYDRO	1,100	2/25/1990	
27	12H007	STS HYDROPOWER (KANAKA)	OROVILLE / BUTTE	4	HYDRO	1,100	2/13/1989	
28	13H006	SUTTER'S MILL	SHINGLETOWN / SHASTA	1	HYDRO	150	6/25/1985	
29	15H069	SWISS AMERICA	AUBURN / PLACER	3	HYDRO	100	12/23/1985	
30	19H055	TOM BENNINGHOVEN	ZENIA / HUMBOLDT	3	HYDRO	25	11/22/1982	
					SUBTOTAL	69,597		
GREATER THAN 20 MW								
31	13H047	MALACHA HYDRO	PITVILLE / LASSEN	4	HYDRO	26,000	12/7/1988	
					SUBTOTAL	26,000		
					TOTAL	95,597		

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July 2017

SOLAR

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

WIND

No.	Log. No.	Project Name	City / County	Contract Type*	Primary Energy Source	Contract Capacity(kW)	Operating Start Date	Enhanced Oil Recovery
		20 MW OR LESS						
1	01W119	DONALD R. CHENOWETH	LIVERMORE / ALAMEDA	3	WIND	10	8/2/1982	
2	06W148	EDF RENEWABLE WINDFARM V, INC. (10 MW)	SUISUN CITY / SOLANO	4	WIND	10,000	1/1/1990	
3	06W146C	EDF RENEWABLE WINDFARM V, INC. (70 MW - C)	SUISUN CITY / SOLANO	4	WIND	<u>6,500</u>	1/1/1991	
					SUBTOTAL	<u>16,510</u>		
		GREATER THAN 20 MW						
4	25W105	INTERNATIONAL TURBINE RESEARCH	PACHECO PASS / MERCED	4	WIND	<u>34,000</u>	6/14/1988	
					SUBTOTAL	<u>34,000</u>		
					TOTAL	<u>50,510</u>		

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