
Pacific Gas and Electric Company Monthly Report On Interruptible Load and Demand Response
Programs for June 2018



July 23, 2018
Public

Pacific Gas and Electric Company ("PG&E") hereby submits this report on Interruptible Load and Demand Response Programs for June 2018. This report is being sent to the Energy Division via EnergyDivisionCentralFiles@cpuc.ca.gov and served on the service list for A.11-03-001

<http://www.pge.com/mybusiness/energysavingsrebates/demandresponse/cs/>

**Table I-1
Pacific Gas and Electric Company
Interruptible and Price Responsive Programs
Subscription Statistics - Enrolled MW
June 2018**

UTILITY NAME: Pacific Gas and Electric Company
Monthly Program Enrollment and Estimated Load Impacts

PROGRAMS	January			February			March			April			May			June			Eligible Accounts as of Jan 1, 2018 ¹
	Service Accounts	Ex Ante Estimated MW ¹	Ex Post Estimated MW ¹	Service Accounts	Ex Ante Estimated MW ¹	Ex Post Estimated MW ¹	Service Accounts	Ex Ante Estimated MW ¹	Ex Post Estimated MW ¹	Service Accounts	Ex Ante Estimated MW ¹	Ex Post Estimated MW ¹	Service Accounts	Ex Ante Estimated MW ¹	Ex Post Estimated MW ¹	Service Accounts	Ex Ante Estimated MW ¹	Ex Post Estimated MW ¹	
PILOT PROGRAMS²																			
SSP II (Load Decrease)																			
Non-Residential	30	N/A	N/A	30	N/A	N/A	30	N/A	N/A	29	N/A	N/A	29	N/A	N/A	30	N/A	N/A	N/A
Residential	0	N/A	N/A	0	N/A	N/A	0	N/A	N/A	0	N/A	N/A	0	N/A	N/A	0	N/A	N/A	N/A
XSP (Load Increase)																			
Non-Residential	6	N/A	N/A	6	N/A	N/A	6	N/A	N/A	6	N/A	N/A	6	N/A	N/A	6	N/A	N/A	N/A
Residential	0	N/A	N/A	0	N/A	N/A	0	N/A	N/A	0	N/A	N/A	0	N/A	N/A	0	N/A	N/A	N/A
INTERRUPTIBLE RELIABILITY PROGRAMS⁵																			
BIP - Day Of	387	193	228	361	187	213	362	196	214	374	217	221	398	238	235	426	266	252	10,935
OBMC	16	0	0	16	0	0	16	0	0	16	0	0	16	0	0	16	0	0	N/A
SLRP	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	N/A
SmartAC™ - Commercial	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	N/A
SmartAC™ - Residential	114,841	0	58	112,408	0	56	110,717	0	56	108,183	0	54	113,595	27	57	112,627	55	56	N/A
Sub-Total Interruptible	115,244	193	286	112,785	187	270	111,095	196	269	108,573	217	275	114,009	265	292	113,069	321	308	
PRICE-RESPONSIVE PROGRAMS^{3,4,6}																			
CBP - Day Ahead	0	0	0	0	0	0	0	0	0	0	0	0	496	14	13	526	25	14	603,881
PDP (200 kW or above)	2,587	10	0	2,583	9	0	2,509	9	0	2,347	18	0	2,233	18	0	2,203	18	0	7,299
PDP (above 20 kW & below 200 kW)	54,596	3	12	53,491	3	12	51,991	3	12	48,009	9	11	45,344	9	10	44,902	10	10	95,833
PDP (20 kW or below)	181,940	0	13	180,502	0	13	174,244	0	12	157,488	1	11	148,964	1	10	147,776	1	10	315,414
SmartRate™ - Residential	122,294	10	24	122,053	10	24	119,202	10	24	120,270	11	24	114,676	14	23	115,755	20	23	N/A
Sub-Total Price Response	476,661	23	50	471,414	22	49	459,041	21	48	436,687	40	46	425,722	57	57	424,231	73	58	
Total All Programs	476,661	216	336	471,414	209	319	459,041	217	317	436,687	257	321	425,722	322	349	424,231	395	366	

Programs	July			August			September			October			November			December			Eligible Accounts as of Jan 1, 2018 ¹
	Service Accounts	Ex Ante Estimated MW ¹	Ex Post Estimated MW ¹	Service Accounts	Ex Ante Estimated MW ¹	Ex Post Estimated MW ¹	Service Accounts	Ex Ante Estimated MW ¹	Ex Post Estimated MW ¹	Service Accounts	Ex Ante Estimated MW ¹	Ex Post Estimated MW ¹	Service Accounts	Ex Ante Estimated MW ¹	Ex Post Estimated MW ¹	Service Accounts	Ex Ante Estimated MW ¹	Ex Post Estimated MW ¹	
PILOT PROGRAMS²																			
SSP II (Load Decrease)																			
Non-Residential																			N/A
Residential																			N/A
XSP (Load Increase)																			
Non-Residential																			N/A
Residential																			N/A
INTERRUPTIBLE RELIABILITY PROGRAMS⁵																			
BIP - Day of																			10,935
OBMC																			N/A
SLRP																			N/A
SmartAC™ - Commercial																			N/A
SmartAC™ - Residential																			N/A
Sub-Total Interruptible																			
PRICE-RESPONSIVE PROGRAMS^{3,4,6}																			
CBP - Day Ahead																			603,881
PDP (200 kW or above)																			7,299
PDP (above 20 kW & below 200 kW)																			95,833
PDP (20 kW or below)																			315,414
SmartRate™ - Residential																			N/A
Sub-Total Price Response																			
Total All Programs																			

NOTES:
 Readers should exercise caution in interpreting or using the estimated MW values found in this report in either the Ex Post or Ex Ante columns. Ex post estimates reflect historic event(s) that have taken place during specific time periods and actual weather conditions by a mix of customers that participated on event day(s). Ex Ante forecasts account for variables not included in the Ex Post estimate such as normalized weather conditions, expected customer mix during events, expected time of day which events occur, expected days of the week which events occur, and other lesser effects etc. An Ex Ante forecast reflects forecast impact estimates that would occur between 1 pm and 6 pm during a specific DR program's operating season, based on 1-in-2 (normal) weather conditions if all DR programs were called simultaneously on the system peak day. In either case, MW estimates in this report will vary from estimates filed in the PG&E's annual April Compliance Filing pursuant to Decision 08-04-050 and reporting documents that may be supplied to other agencies e.g. CAISO, FERC, NERC, etc. MW estimates found in the Monthly ILP Report are not used by PG&E for operational reporting, resource planning, and cost effectiveness analysis or in developing regulatory filings.

Ex Ante Estimated MW = In compliance with Decision 08-04-050, the values presented herein are based on the April 2, 2018 (R.13-09-011) Load Impact Report for Demand Response. The values reported are calculated by using the monthly Ex Ante average load impact per customer multiplied by the number of currently enrolled service accounts for the reporting month, where the Ex Ante average load impact is the average hourly load impact for an event that would occur from 1 - 6 pm on the system peak day of the month. The Ex Ante Estimated MW value for the aggregator program, e.g. CBP are the monthly nominated MW during the event season May through October and Zero non-event season months November through April.

Ex Post Estimated MW = In compliance with Decision 08-04-050, the values presented herein are based on the April 2, 2018 (R.13-09-011) Load Impact Report for Demand Response. The values reported are calculated by using the annual Ex Post average load impact per customer multiplied by the number of currently enrolled service accounts for the reporting month, where the Ex Post load impact per customer is the average load impact per customer for those customers that may have participated in an event(s) during all actual event hours in the preceding year when or if events occurred. New programs report "n/a", as there were no prior events.

¹ The 2018 Ex Ante and Ex Post Load Impacts and Eligible Accounts reflect and update the January, February, and March recorded data in the April 2018 ILP Report.
² For Pilot Program SSP II (Load Decrease) and XSP Pilot Program (Load Increase), in the absence of a formal load impact evaluation, PG&E estimates SSP 950 kW and XSP 2860 kW.
³ There are some SmartRate™ Residential customers (<.05%) not reflected in the summary or rate code count as program eligibility is being confirmed.
⁴ The CBP - Day Of program is closed and has been eliminated from this table.
⁵ BIP customers that dual participate in PDP are not counted towards the 300 MW BIP cap. The BIP program actual capacity is below the 300 MW cap.
⁶ May ILP provides restated numbers for PDP for March and April PDP data. Due to a newly discovered temporary data issue, the PDP enrollment (Service Accounts) was understated by approximately 10% in the March and April data.

Pacific Gas and Electric Company
Average Ex Ante Load Impact kW / Customer
June 2018

Program Eligibility and Ex Ante Average Load Impacts ¹

Program	Average Ex Ante Load Impact kW / Customer												Eligible Accounts as of Jan 1, 2018 ¹	Eligibility Criteria (Refer to tariff for specifics)
	January	February	March	April	May	June	July	August	September	October	November	December		
BIP - Day Of	499.47	517.01	542.25	580.65	597.58	624.48	611.84	609.35	609.06	588.82	527.97	525.49	10,935	Bundled, DA and CCA non-residential customer service accounts that have at least an average monthly demand of 100 kW.
OBMC	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Not Available	Bundled, DA and CCA non-residential customer accounts with interval meters that must be able to reduce electric load such that the entire load on the PG&E circuit or dedicated substation that provides service to that customer is reduced to or below Maximum Load Levels (MLLs) for the entire duration of each and every RO operation.
SLRP	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Not Available	Bundled-service customers taking service under Schedules A-10, E-19 or E-20 & minimum average monthly demand of 100 kilowatts (kW). Customers must commit to minimum 15% of baseline usage, with a minimum load reduction of 100 kW.
SmartAC™ - Commercial	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Not Available	Small and medium business customers taking service under applicable rate schedules equipped with central or packaged DX air conditioning equipment. Closed to new enrollment.
SmartAC™ - Residential	N/A	N/A	N/A	N/A	0.24	0.49	0.54	0.48	0.46	0.13	N/A	N/A	Not Available	Residential customers taking service under applicable rate schedules equipped with central or packaged DX air conditioning equipment.
CBP - Day Ahead	N/A	N/A	N/A	N/A	138.07	138.07	138.07	138.07	138.07	138.07	N/A	N/A	603,881	Non-residential customers on commercial, industrial, partial standby, or agricultural rate schedules, except those who receive electric power from third parties (other than DA), billed via net metering or full standby services.
PDP (200 kW or above)	3.69	3.53	3.39	7.73	7.88	8.00	7.98	8.26	8.61	8.09	3.27	3.10	7,299	Default beginning on: May 1, 2010 for bundled C&I Customers >200kW
PDP (above 20 kW & below 200 kW)	0.06	0.06	0.05	0.19	0.21	0.23	0.23	0.24	0.23	0.20	0.06	0.06	95,833	Maximum Demand; February 1st, 2011 for large bundled Ag customers; November 2014 for bundled C&I Customers with <200 kW Maximum Demand
PDP (20 kW or below)	0.00	0.00	0.00	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.00	0.00	315,414	and 12 consecutive months of interval data.
SmartRate™ - Residential	0.09	0.09	0.08	0.09	0.13	0.17	0.19	0.18	0.18	0.11	0.09	0.09	Not Available	A voluntary rate supplement to residential customers' otherwise applicable schedule. Available to Bundled-Service customers served on a single family residential electric rate schedule.

The average ex ante load impacts per customer are based on the load impacts filing on April 2, 2018 (R.13-09-011). Estimated Average Ex Ante Load Impact kW/Customer = Average kW / Customer, under 1-in-2 weather conditions, of an event that would occur from 1 - 6 pm for April through October, and 4 - 9 pm for November through March, on the PG&E system peak day of the month.

¹ The 2018 Ex Ante Load Impacts and Eligible Accounts reflect and update the January, February, and March recorded data in the April 2018 ILP Report.

Pacific Gas and Electric Company
Average ExPost Load Impact kW / Customer
June 2018

Program Eligibility and Ex Post Average Load Impacts ¹

Program	Average Ex Post Load Impact kW / Customer												Eligible Accounts as of Jan 1, 2018 ¹	Eligibility Criteria (Refer to tariff for specifics)	
	January	February	March	April	May	June	July	August	September	October	November	December			
BIP - Day Of	590.40	590.40	590.40	590.40	590.40	590.40	590.40	590.40	590.40	590.40	590.40	590.40	590.40	10,907	Bundled, DA and CCA non-residential customer service accounts that have at least an average monthly demand of 100 kW.
OBMC	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Not Available	Bundled, DA and CCA non-residential customer accounts with interval meters that must be able to reduce electric load such that the entire load on the PG&E circuit or dedicated substation that provides service to that customer is reduced to or below Maximum Load Levels (MLLs) for the entire duration of each and every RO operation.
SLRP	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Not Available	Bundled-service customers taking service under Schedules A-10, E-19 or E-20 & minimum average monthly demand of 100 kilowatts (kW). Customers must commit to minimum 15% of baseline usage, with a minimum load reduction of 100 kW.
SmartAC™ - Commercial	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Not Available	Small and medium business customers taking service under applicable rate schedules equipped with central or packaged DX air conditioning equipment. Closed.
SmartAC™ - Residential	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	Not Available	Residential customers taking service under applicable rate schedules equipped with central or packaged DX air conditioning equipment.
CBP - Day Ahead	26.84	26.84	26.84	26.84	26.84	26.84	26.84	26.84	26.84	26.84	26.84	26.84	26.84	603,881	Non-residential customers on commercial, industrial, partial standby, or agricultural rate schedules, except those who receive electric power from third parties (other than DA), billed via net metering or full standby services.
PDP (200 kW or above)	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	7,299	Default beginning on: May 1, 2010 for bundled C&I Customers >200kW
PDP (above 20 kW & below 200 kW)	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	95,833	Maximum Demand; February 1st, 2011 for large bundled Ag customers; November 2014 for bundled C&I Customers with <200 kW Maximum Demand and 12 consecutive months of interval data.
PDP (20 kW or below)	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	315,414	
SmartRate™ - Residential	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	Not Available	A voluntary rate supplement to residential customers' otherwise applicable schedule. Available to Bundled-Service customers served on a single family residential electric rate schedule.

The average ex post load impacts per customer are based on the load impacts filing on April 2, 2018 (R.13-09-011). Estimated Average Ex Post Load Impact kW / Customer = Average kW / Customer service account from the typical event for the preceeding year if events occurred. Some programs may experience no events or few events while other programs may operate regularly depending on event triggers. For existing programs, the average ex post load impact per customer SA_ID remains constant across all months. The average load impact is "N/A" for programs having no prior events.

¹ The 2018 Ex Post Load Impacts and Eligible Accounts reflect and update the January, February, and March recorded data in the April 2018 ILP Report.

Table I-2
Pacific Gas and Electric Company
Program Subscription Statistics
June 2018

2018 Detailed Breakdown of MWs To Date in TA/Auto DR/TI Programs																								
PROGRAM	JANUARY				FEBRUARY				MARCH				APRIL				MAY				JUNE			
	TA Identified MWs	Auto DR Verified MWs ¹	TI Verified MWs	Total Technology MWs	TA Identified MWs	Auto DR Verified MWs ¹	TI Verified MWs	Total Technology MWs	TA Identified MWs	Auto DR Verified MWs ¹	TI Verified MWs	Total Technology MWs	TA Identified MWs	Auto DR Verified MWs ¹	TI Verified MWs	Total Technology MWs	TA Identified MWs	Auto DR Verified MWs ¹	TI Verified MWs	Total Technology MWs				
PILOT PROGRAMS																								
SSP II (Load Decrease)																								
Non-Residential	N/A	0.0	0.0	0.0	N/A	0.0	0.0	0.0	N/A	0.0	0.0	0.0	N/A	0.0	0.0	0.0	N/A	0.0	0.0	0.0	N/A	0.0	0.0	0.0
Residential	N/A	0.0	0.0	0.0	N/A	0.0	0.0	0.0	N/A	0.0	0.0	0.0	N/A	0.0	0.0	0.0	N/A	0.0	0.0	0.0	N/A	0.0	0.0	0.0
XSP (Load Increase)																								
Non-Residential	N/A	0.0	0.0	0.0	N/A	0.0	0.0	0.0	N/A	0.0	0.0	0.0	N/A	0.0	0.0	0.0	N/A	0.0	0.0	0.0	N/A	0.0	0.0	0.0
Residential	N/A	0.0	0.0	0.0	N/A	0.0	0.0	0.0	N/A	0.0	0.0	0.0	N/A	0.0	0.0	0.0	N/A	0.0	0.0	0.0	N/A	0.0	0.0	0.0
PRICE-RESPONSIVE PROGRAMS																								
CBP - Day Ahead	N/A	0.0	0.0	0.0	N/A	0.0	0.0	0.0	N/A	0.0	0.0	0.0	N/A	0.0	0.0	0.0	N/A	0.0	0.0	0.0	N/A	0.0	0.0	0.0
CBP - Day Of	N/A	4.2	0.0	4.2	N/A	4.2	0.0	4.2	N/A	4.2	0.0	4.2	N/A	4.2	0.0	4.2	N/A	4.2	0.0	4.2	N/A	4.2	0.0	4.2
PDP	N/A	0.0	0.0	0.0	N/A	1.2	0.0	1.2	N/A	1.2	0.0	1.2	N/A	1.2	0.0	1.2	N/A	1.2	0.0	1.2	N/A	1.2	0.0	1.2
SmartRate™ - Residential	N/A	0.0	0.0	0.0	N/A	0.0	0.0	0.0	N/A	0.0	0.0	0.0	N/A	0.0	0.0	0.0	N/A	0.0	0.0	0.0	N/A	0.0	0.0	0.0
SmartAC™ - Commercial	N/A	0.0	0.0	0.0	N/A	0.0	0.0	0.0	N/A	0.0	0.0	0.0	N/A	0.0	0.0	0.0	N/A	0.0	0.0	0.0	N/A	0.0	0.0	0.0
SmartAC™ - Residential	N/A	0.0	0.0	0.0	N/A	0.0	0.0	0.0	N/A	0.0	0.0	0.0	N/A	0.0	0.0	0.0	N/A	0.0	0.0	0.0	N/A	0.0	0.0	0.0
DRAM ²	N/A	0.0	0.0	0.0	N/A	0.0	0.0	0.0	N/A	0.0	0.0	0.0	N/A	0.0	0.0	0.0	N/A	0.0	0.0	0.0	N/A	0.0	0.0	0.0
Total	N/A	4.2	0.0	4.2	N/A	5.4	0.0	5.4	N/A	5.4	0.0	5.4	N/A	5.4	0.0	5.4	N/A	5.4	0.0	5.4	N/A	5.4	0.0	5.4
INTERUPTIBLE RELIABILITY PROGRAMS																								
BIP - Day of	N/A	0.0	0.0	0.0	N/A	0.0	0.0	0.0	N/A	0.0	0.0	0.0	N/A	0.0	0.0	0.0	N/A	0.0	0.0	0.0	N/A	0.0	0.0	0.0
OBMC	N/A	0.0	0.0	0.0	N/A	0.0	0.0	0.0	N/A	0.0	0.0	0.0	N/A	0.0	0.0	0.0	N/A	0.0	0.0	0.0	N/A	0.0	0.0	0.0
SLRP	N/A	0.0	0.0	0.0	N/A	0.0	0.0	0.0	N/A	0.0	0.0	0.0	N/A	0.0	0.0	0.0	N/A	0.0	0.0	0.0	N/A	0.0	0.0	0.0
Total	N/A	0.0	0.0	0.0	N/A	0.0	0.0	0.0	N/A	0.0	0.0	0.0	N/A	0.0	0.0	0.0	N/A	0.0	0.0	0.0	N/A	0.0	0.0	0.0
TOTAL TECHNOLOGY MWs	N/A	4.2	0.0	4.2	N/A	5.4	0.0	5.4	N/A	5.4	0.0	5.4	N/A	5.4	0.0	5.4	N/A	5.4	0.0	5.4	N/A	5.4	0.0	5.4
GENERAL PROGRAM																								
TA (may also be enrolled in TI and AutoDR)	0.0	N/A	N/A	N/A	0.0	N/A	N/A	N/A	0.0	N/A	N/A	N/A	0.0	N/A	N/A	N/A	0.0	N/A	N/A	N/A	0.0	N/A	N/A	N/A
Total	0.0	N/A	N/A	N/A	0.0	N/A	N/A	N/A	0.0	N/A	N/A	N/A	0.0	N/A	N/A	N/A	0.0	N/A	N/A	N/A	0.0	N/A	N/A	N/A
TOTAL TA MWs	0.0	N/A	N/A	N/A	0.0	N/A	N/A	N/A	0.0	N/A	N/A	N/A	0.0	N/A	N/A	N/A	0.0	N/A	N/A	N/A	0.0	N/A	N/A	N/A
PROGRAM	JULY				AUGUST				SEPTEMBER				OCTOBER				NOVEMBER				DECEMBER			
	TA Identified MWs	Auto DR Verified MWs ¹	TI Verified MWs	Total Technology MWs	TA Identified MWs	Auto DR Verified MWs ¹	TI Verified MWs	Total Technology MWs	TA Identified MWs	Auto DR Verified MWs ¹	TI Verified MWs	Total Technology MWs	TA Identified MWs	Auto DR Verified MWs ¹	TI Verified MWs	Total Technology MWs	TA Identified MWs	Auto DR Verified MWs ¹	TI Verified MWs	Total Technology MWs				
PILOT PROGRAMS																								
SSP II (Load Decrease)																								
Non-Residential																								
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Non-Residential																								
Residential																								
PRICE-RESPONSIVE PROGRAMS																								
CBP - Day Ahead																								
CBP - Day Of																								
PDP																								
SmartRate™ - Residential																								
SmartAC™ - Commercial																								
SmartAC™ - Residential																								
DRAM ²																								
Total																								
INTERUPTIBLE RELIABILITY PROGRAMS																								
BIP - Day of																								
OBMC																								
SLRP																								
Total																								
TOTAL TECHNOLOGY MWs																								
GENERAL PROGRAM																								
TA (may also be enrolled in TI and AutoDR)																								
Total																								
TOTAL TA MWs																								

¹ ADR project payments carry over to the following year. 60% is paid upfront on completion of enrollment and the remaining 40% later on performance during an event season.

² As approved in the disposition letter issued September 24, 2015 to advice letter 4618-E-A, customers participating in DRAM are eligible to receive ADR incentives.

Table I-3a
Pacific Gas and Electric Company
Demand Response Programs and Activities
2018-22 Incremental Cost Funding
June 2018

2018 Program Expenditures¹

Cost Item	2017 Expenditures	2018 Expenditures												Year-to-Date 2018 Expenditures	Program-to-Date 2018 Expenditures	2018 Funding	Fund shift Adjustments	Percent Funding	
		January	February	March	April	May	June	July	August	September	October	November	December						
Category 1: Supply-Side DR Programs																			
AC Cycling: Smart AC	\$0	\$317,849	\$448,616	\$457,297	\$435,865	\$611,706	\$562,094								\$2,833,427	\$2,833,427	\$6,396,000		44.3%
Base Interruptible Program (BIP)	\$0	\$23,290	\$24,370	\$28,168	\$36,219	\$24,125	\$30,226								\$166,398	\$166,398	\$32,354,000		
Capacity Bidding Program (CBP)	\$0	\$23,314	\$28,701	\$31,345	\$41,055	\$28,815	\$34,199								\$187,430	\$187,430	\$4,103,000		4.6%
Budget Category 1 Total	\$0	\$364,454	\$501,687	\$516,811	\$513,140	\$664,646	\$626,518	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$3,187,255	\$3,187,255	\$42,853,000	\$0	7.4%
Category 2: Load Modifying DR Programs																			
OMBC/SLRP	\$0	\$592	\$319	\$991	\$403	\$422	\$502								\$3,230	\$3,230	\$12,000		26.9%
Permanent Load Shifting (PLS)	\$0	\$0	\$0	\$0	\$0	\$0	\$0								\$0	\$0	\$0		0.0%
Budget Category 2 Total	\$0	\$592	\$319	\$991	\$403	\$422	\$502	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$3,230	\$3,230	\$12,000	\$0	26.9%
Category 3: DRAM and Rule 24/32																			
DRAM Phase 4	\$6,548	\$16,035	\$18,086	\$26,477	\$23,354	\$641	\$946								\$85,539	\$92,087	\$6,000,000		1.5%
Rule 24 O&M	\$0	\$51,505	\$77,904	\$127,242	\$76,085	\$78,443	\$85,747								\$496,926	\$496,926	\$2,439,000		20.4%
Budget Category 3 Total	\$6,548	\$67,540	\$95,990	\$153,719	\$99,439	\$79,084	\$86,694	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$582,465	\$589,012	\$8,439,000	\$0	7.0%
Category 4: Emerging & Enabling Programs																			
Auto DR	\$0	\$29,127	\$217,189	\$150,494	\$183,428	\$89,535	\$399,033								\$1,068,807	\$1,068,807	\$4,006,000		26.7%
DR Emerging Technology	\$0	\$22,487	\$38,716	\$43,391	\$34,489	\$26,247	\$85,925								\$251,255	\$251,255	\$1,380,000		18.2%
Budget Category 4 Total	\$0	\$51,614	\$255,905	\$193,885	\$217,917	\$115,782	\$484,958	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$1,320,062	\$1,320,062	\$5,386,000	\$0	24.5%
Category 5: Pilots																			
Supply Side Pilot	\$0	\$31,884	\$40,429	\$55,796	\$20,358	\$36,020	\$71,214								\$255,701	\$255,701	\$2,083,000		12.3%
Excess Supply	\$0	\$17,738	\$23,677	\$40,291	\$15,448	\$28,052	\$104,830								\$230,036	\$230,036	\$596,000		38.6%
Local Capacity Planning Areas and Disadvantaged Communities Pilot	\$0	\$0	\$0	\$0	\$0	\$0	\$0								\$0	\$0	\$0		0.0%
Budget Category 5 Total	\$0	\$49,621	\$64,106	\$96,087	\$35,806	\$64,072	\$176,044	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$485,737	\$485,737	\$2,679,000	\$0	18.1%
Category 6: Marketing, Education, and Outreach (ME&O)																			
DR Core Marketing & Outreach	\$0	\$74,778	\$38,350	\$150,418	\$139,668	\$312,045	\$277,565								\$992,824	\$992,824	\$2,325,000		42.7%
Education and Training	\$0	\$2,839	\$3,043	\$6,720	\$2,141	\$1,099	\$3,543								\$19,385	\$19,385	\$252,000		7.7%
Budget Category 6 Total	\$0	\$77,616	\$41,393	\$157,137	\$141,810	\$313,144	\$281,108	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$1,012,209	\$1,012,209	\$2,577,000	\$0	39.3%
Category 7: Portfolio Support (includes EM&V, Systems Support, and Notifications)																			
DR Measurement and Evaluation (DRMEC)	\$0	\$6,785	\$6,414	\$82,284	\$24,577	\$39,782	\$110,649								\$270,492	\$270,492	\$3,007,000		9.0%
DR Integration Policy & Planning	\$0	\$97,888	\$163,959	\$222,848	\$774	\$129,964	\$180,573								\$796,005	\$796,005	\$1,576,000		50.5%
Support for Market Activities	\$0	\$60,947	\$110,705	\$155,332	\$120,972	\$102,107	\$248,561								\$798,623	\$798,623	\$3,791,000		21.1%
Support for Retail & Customer Facing Activities	\$0	\$221,454	\$194,161	\$1,024,449	\$369,338	\$282,926	\$273,609								\$2,365,937	\$2,365,937	\$4,235,000		55.9%
DR Potential Study	\$0	\$0	\$0	\$0	\$0	\$0	\$0								\$0	\$0	\$400,000		0.0%
Budget Category 7 Total	\$0	\$387,074	\$475,239	\$1,484,913	\$515,661	\$554,780	\$813,391	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$4,231,057	\$4,231,057	\$13,009,000	\$0	32.5%
Category 8: Integrated Programs and Activities (Including Technical Assistance)²																			
Technology Incentives - IDSM	\$0	\$0	\$0	\$0	\$0	\$0	\$0								\$0	\$0	\$2,000,000		0.0%
Integrated Energy Audits	\$0	\$0	\$0	\$0	\$3,349	\$0	\$18,885								\$22,234	\$22,234	\$1,264,000		0.0%
Budget Category 8 Total	\$0	\$0	\$0	\$0	\$3,349	\$0	\$18,885	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$22,234	\$22,234	\$3,264,000	\$0	0.0%
Recovery of DR-related capital costs prior to 2009 (for interval metering as authorized in D.06-03-024/D.06-11-049); and, additionally, for the HAN integration project (as authorized in D.12-04-045).	\$0	\$195,972	\$173,771	\$137,480	\$168,249	\$167,665	\$166,053								\$1,009,190	\$1,009,190	\$0	\$0	0.0%
Total Incremental Cost³	\$6,548	\$1,194,484	\$1,608,410	\$2,741,024	\$1,695,772	\$1,959,594	\$2,654,154	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$11,853,438	\$11,859,985	\$78,219,000	\$0	15.2%
Technical Assistance & Technology Incentives (TA&TI) Identified as of June 2018	\$0																		

¹ The expenditures listed are in support of PG&E's DR programs for large commercial, industrial and agricultural customers.

² Additional funding for Technology Incentives and Integrated Energy Audits was approved in Energy Efficiency Decision 14-10-046. This funding will continue through 2025 unless the Commission issues a superseding funding decision.

³ Total Incremental Cost excludes incentives. Incentives are reported on Table I-5.

**Table I-3b
Pacific Gas and Electric Company
Demand Response Programs and Activities
Carry-Over Expenditures and Funding
June 2018**

Cost Item ¹	January	February	March	April	May	June	July	August	September	October	November	December	Carry-Over Expenditures incurred in 2018
Category 1: Reliability Programs													
Base Interruptible Program (BIP)	\$3,174	(\$3,106)	(\$86)	(\$32)	\$216	\$22							\$187
Optional Bidding Mandatory Curtailment / Scheduled Load Reduction (OBMC / SLRP)	\$280	\$364	(\$886)	(\$16)	\$104	\$11							(\$144)
Budget Category 1 Total	\$3,453	(\$2,742)	(\$973)	(\$48)	\$320	\$33	\$0	\$0	\$0	\$0	\$0	\$0	\$43
Category 2: Price-Responsive Programs													
Capacity Bidding Program (CBP)	\$3,801	(\$2,767)	(\$1,421)	(\$55)	\$369	\$38							(\$36)
SmartAC™	\$23,723	(\$52,579)	(\$10,794)	(\$199)	\$1,324	\$136							(\$38,390)
Budget Category 2 Total	\$27,524	(\$55,346)	(\$12,216)	(\$254)	\$1,693	\$173	\$0	\$0	\$0	\$0	\$0	\$0	(\$38,426)
Category 3: DR Provider/Aggregator Managed Programs													
Aggregator Managed Portfolio (AMP)	\$0	\$0	\$0	\$0	\$0	\$0							\$0
Budget Category 3 Total	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Category 4: Emerging & Enabling Programs													
Auto DR	\$4,839	\$54,689	\$4,389	(\$85)	\$10,955	\$9,562							\$84,349
DR Emerging Technology	\$5,871	\$600	(\$6,123)	(\$4,308)	\$717	\$3,886							\$642
Budget Category 4 Total	\$10,710	\$55,289	(\$1,735)	(\$4,393)	\$11,671	\$13,448	\$0	\$0	\$0	\$0	\$0	\$0	\$84,990
Category 5: Pilots													
Supply Side Pilot	\$5,687	\$1,705	(\$4,457)	(\$78)	\$32	\$53							\$2,941
Excess Supply	\$5,130	\$1,266	(\$3,084)	(\$544)	\$361	\$37							\$3,166
Budget Category 5 Total	\$10,817	\$2,970	(\$7,541)	(\$623)	\$393	\$90	\$0	\$0	\$0	\$0	\$0	\$0	\$6,107
Category 6: Evaluation, Measurement and Verification													
DRMEC	\$133,076	\$344,543	(\$53,213)	\$171,213	\$140,293	\$69,929							\$805,840
DR Research Studies	\$10,000	\$8,000	\$0	\$0	\$10,000	\$46,845							\$74,845
Budget Category 6 Total	\$143,076	\$352,543	(\$53,213)	\$171,213	\$150,293	\$116,774	\$0	\$0	\$0	\$0	\$0	\$0	\$880,686
Category 7: Marketing, Education and Outreach													
DR Core Marketing and Outreach	\$4,175	(\$2,529)	\$1,805	\$1,369	(\$143)	(\$1,243)							\$3,434
SmartAC™ ME&O	\$12,048	\$4,559	(\$9,624)	\$315	\$4,280	(\$429)							\$11,149
Education and Training	\$946	(\$1,388)	\$608	\$0	\$0	\$0							\$166
Budget Category 7 Total	\$17,169	\$642	(\$7,211)	\$1,684	\$4,136	(\$1,672)	\$0	\$0	\$0	\$0	\$0	\$0	\$14,749
Category 8: DR System Support Activities													
InterAct / DR Forecasting Tool	\$123,472	\$137,825	\$84,240	\$52,760	\$154,074	\$13,161							\$565,533
DR Enrollment & Support ²	(\$513,756)	\$107,793	\$80,730	\$56,399	\$160,577	(\$2,767)							(\$111,023)
Notifications	\$59,445	\$68,445	\$153,138	\$52,777	\$153,962	\$17,213							\$504,981
DR Integration Policy & Planning	\$25,928	(\$13,276)	(\$2,826)	\$3,935	\$10,222	(\$25,055)							(\$1,072)
Budget Category 8 Total	(\$304,911)	\$300,787	\$315,283	\$165,872	\$478,835	\$2,553	\$0	\$0	\$0	\$0	\$0	\$0	\$958,418
Category 9: Integrated Programs and Activities (Including Technical Assistance)													
Technology Incentives - IDSM	\$0	\$0	\$0	\$0	\$0	\$0							\$0
Integrated Energy Audits	\$8,539	(\$889)	\$9,826	\$6,315	\$9,365	(\$19,384)							\$13,771
Budget Category 9 Total	\$8,539	(\$889)	\$9,826	\$6,315	\$9,365	(\$19,384)	\$0	\$0	\$0	\$0	\$0	\$0	\$13,771
Category 10: Special Projects													
Demand Response Auction Mechanism Pilot Phase 1	\$0	\$0	\$0	\$0	\$0	\$0							\$0
Demand Response Auction Mechanism Pilot Phase 2	\$9,853	\$1,410	\$1,746	(\$938)	\$401	\$308							\$12,779
Demand Response Auction Mechanism Pilot Phase 3	\$11,954	\$6,758	\$15,242	\$18,919	\$19,793	\$13,014							\$85,679
Rule 24 O&M	\$410	\$0	(\$6,415)	\$0	\$0	\$0							(\$6,005)
Permanent Load Shifting	\$6,927	\$145	\$21,466	(\$2,683)	\$6,614	\$19,656							\$52,126
Budget Category 10 Total	\$29,143	\$8,313	\$32,039	\$15,298	\$26,808	\$32,979	\$0	\$0	\$0	\$0	\$0	\$0	\$144,579
Total Incremental Cost	(\$54,481)	\$661,566	\$274,260	\$355,064	\$683,515	\$144,994	\$0	\$0	\$0	\$0	\$0	\$0	\$2,064,917

¹ Expenditures on this page reflect expenses incurred in 2018 from all prior funding cycles

² January credit for DR Enrollment & Support is due to the reversal of an accrual and reversal of a prior month incorrect charge.

**Table I-4
Pacific Gas and Electric Company
Interruptible and Price Responsive Programs
Year-to-Date Event Summary
June 2018**

Program Name	Month	Zones ¹	Event No. (by Program / Type)	Event Date	Program Type	Trigger	# of Accounts	Event Start Time (PDT)	Event End Time (PDT)	Program Tolled Hours	Load Reduction MW (Max Hourly) ^{2,3}	
Category 1: Reliability Programs												
Base Interruptible Program	JUNE	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
Optional Bidding Mandatory Curtailment (OBMC) / Scheduled Load Reduction (SLRP)	JUNE	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
Category 2: Price-Responsive Programs												
Capacity Bidding Program	JUNE	3 Market Resources	South Bay (Bay Area) PGSB	1	6/13/18	Day Ahead	Received CAISO Market Award	55	7:00 PM	8:00 PM	1	REDACTED
Capacity Bidding Program	JUNE	4 Market Resources	North Bay PGNB	2	6/22/18	Day Ahead	Received CAISO Market Award	18	5:00 PM	6:00 PM	1	REDACTED
Peak Day Pricing	JUNE	System	(16) SubLap/Zones:	1	6/12/18	Day Ahead	Temperature	2,203	2:00 PM	6:00 PM	4	15.9
Peak Day Pricing	JUNE	System	(16) SubLap/Zones:	2	6/13/18	Day Ahead	Temperature	2,203	2:00 PM	6:00 PM	4	13.0
SmartAC	JUNE	System	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
SmartRate	JUNE	System	(16) SubLap/Zones:	1	6/12/18	Day Ahead	Temperature	115,755	2:00 PM	7:00 PM	5	27.0
SmartRate	JUNE	System	(16) SubLap/Zones:	2	6/13/18	Day Ahead	Temperature	115,755	2:00 PM	7:00 PM	5	25.9

NOTE:

Readers should exercise caution in interpreting or using the estimated MW values found in this report in either the Ex Post or Ex Ante columns. Ex post estimates reflect historic event(s) that have taken place during specific time periods and actual weather conditions by a mix of customers that participated on event day(s). Ex Ante forecasts account for variables not included in the Ex Post estimate such as normalized weather conditions, expected customer mix during events, expected time of day which events occur, expected days of the week which events occur, and other lesser effects etc. An Ex Ante forecast reflects forecast impact estimates that would occur between 1 pm and 6pm during a specific DR program's operating season, based on 1-in-2 (normal) weather conditions if all DR programs were called simultaneously on the system peak day. In either case, MW estimates in this report will vary from estimates filed in the PG&E's annual April Compliance Filing pursuant to Decision 08-04-050 and reporting documents that may be supplied to other agencies e.g. CAISO, FERC, NERC,

¹ Ex Ante Estimated MW = In compliance with Decision 08-04-050, the values presented herein are based on the April 2, 2018 (R.13-09-011) Load Impact Report for Demand Response. The values reported are calculated by using the monthly Ex Ante average load impact per customer multiplied by the number of currently enrolled service accounts for the reporting month, where the Ex Ante average load impact is the average hourly load impact for an event that would occur from 1 - 6 pm on the system peak day of the month. The Ex Ante Estimated MW value for the aggregator program, e.g., CBP are the monthly nominated MW during the event season May through October and Zero non-event season months November through April.

² Ex Post Estimated MW = In compliance with Decision 08-04-050, the values presented herein are based on the April 2, 2018 (R.13-09-011) Load Impact Report for Demand Response. The values reported are calculated by using the annual Ex Post average load impact per customer multiplied by the number of currently enrolled service accounts for the reporting month, where the Ex Post load impact per customer is the average load impact per customer for those customers that may have participated in an event(s) during all actual event hours in the preceding year when or if events occurred. New programs report "n/a", as there were no prior events.

³ There are some SmartRate™ Residential customers (<.05%) not reflected in the summary or rate code count as program eligibility is being confirmed.

Table I-5a
Pacific Gas and Electric Company
2018-22 Demand Response Programs Incentives
June 2018

Annual Total Cost													
Cost Item	January	February	March	April	May	June	July	August	September	October	November	December	Year-to-Date Total Cost
Program Incentives													
Automatic Demand Response (AutoDR)	\$0	\$0	\$0	\$0	\$0	\$0							\$0
Base Interruptible Program (BIP)	\$1,661,645	\$1,967,373	1,993,536	\$2,157,174	2,485,731	\$2,498,270							\$12,763,729
Capacity Bidding Program (CBP) ¹	\$0	\$0	\$0	\$0	\$45,970	\$91,110							\$137,080
Excess Supply Pilot	\$18,600	21,425	18,600	\$24,547	\$20,983	\$14,810							\$118,965
SmartAC™	\$0	\$0	\$0	\$150	\$35,200	\$36,900							\$72,250
Supply Side Pilot	\$9,440	\$7,961	8,700	\$6,855	\$8,700	\$6,624							\$48,279
Total Cost of Incentives	\$1,689,685	\$1,996,758	\$2,020,836	\$2,188,727	\$2,596,584	\$2,647,715	\$0	\$0	\$0	\$0	\$0	\$0	\$13,140,303
Revenues from Penalties ²													
	\$0	\$0	\$0										\$0

¹ Incentives reported are net of penalties paid by the aggregators.

² Revenues from Penalties denote penalty/default payments made by aggregators and charges to direct enrolled customers enrolled in BIP programs.

Table I-5b
Pacific Gas and Electric Company
Demand Response Programs and Activities
Carryover and Incentive Funding
June 2018

Annual Total Cost													
Cost Item ¹	January	February	March	April	May	June	July	August	September	October	November	December	Carry-Over Incentives incurred in 2018
Program Incentives													
Automatic Demand Response (AutoDR)	\$53,246	\$136,986	\$0	\$0	\$0	\$70,560	\$0	\$0	\$0	\$0	\$0	\$0	\$260,792
Base Interruptible Program (BIP)	(\$15,302)	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	(\$15,302)
Capacity Bidding Program (CBP)	(\$16,824)	(\$330)	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	(\$17,154)
DRAM Phase 1 ²	REDACTED	REDACTED	REDACTED	REDACTED	REDACTED	REDACTED	REDACTED	REDACTED	REDACTED	REDACTED	REDACTED	REDACTED	REDACTED
DRAM Phase 2 ²	RFEDACTED	RFEDACTED	RFEDACTED	RFEDACTED	RFEDACTED	RFEDACTED	RFEDACTED	RFEDACTED	RFEDACTED	RFEDACTED	RFEDACTED	RFEDACTED	RFEDACTED
DRAM Phase 3 ²	REDACTED	REDACTED	REDACTED	REDACTED	REDACTED	REDACTED	REDACTED	REDACTED	REDACTED	REDACTED	REDACTED	REDACTED	REDACTED
Excess Supply Pilot	\$0	\$6,894	\$0	(\$2,741)	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$4,152
Permanent Load Shift	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Supply Side Pilot	\$0	\$0	\$0	(\$1,365)	\$0	(\$1)	\$0	\$0	\$0	\$0	\$0	\$0	(\$1,366)
SmartAC™	\$187	\$4,750	\$10,621	\$409	\$901	\$163	\$0	\$0	\$0	\$0	\$0	\$0	\$17,030
Total Cost of Incentives	\$21,307	\$148,300	\$10,621	(\$3,698)	\$901	\$70,722	\$0	\$0	\$0	\$0	\$0	\$0	\$248,154
Revenues from Penalties	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0

¹ Incentives on this page reflect incentives paid in 2018 from all prior funding cycles.

² DRAM incentives are confidential and redacted for the public version. The MWs under contract are known, and the costs are being paid under the contracts that won in the RFO.

**Pacific Gas and Electric Company
2018 Fund Shifting Documentation
June 2018**

FUND SHIFTING DOCUMENTATION PER DECISION 12-04-045 ORDERING PARAGRAPH 4

OP 4: Pacific Gas and Electric Company, San Diego Gas & Electric Company, and Southern California Edison Company:
May not shift funds between categories with two exceptions as stated in Ordering Paragraphs 4 and 5;
May continue to shift up to 50 percent of a Demand Response program's funds to another program within the same budget category, with proper monthly reporting;
Shall not shift funds within the "Pilots" or "Special Projects" categories without submitting a Tier 2 Advice Letter filing;
May shift funds for pilots in the Enabling or Emerging Technologies category;
Shall continue to submit a Tier 2 Advice Letter to eliminate a Demand Response program;
Shall not eliminate a program through multiple fund shifting events or for any other reason without prior authorization from the Commission; and
Shall submit a Tier 2 Advice Letter before shifting more than 50 percent of a program's funds to a different program within the same budget category.

Program Category	Fund Shift Amount	Programs Impacted	Date	Rationale for Fundshift
Category 1: Supply-Side DR Programs				
Category 2: Load Modifying DR Programs				
Category 3: DRAM and Rule 24/32				
Category 4: Emerging and Enabling Technology				
Category 5: Pilots				
Category 6: Marketing, Education, and Outreach (ME&O)				
Category 7: Portfolio Support (includes EM&V, Systems Support, and Notifications)				
Category 8: Integrated Programs and Activities				
Total	\$0			