
Pacific Gas and Electric Company Monthly Report On Interruptible Load and Demand Response
Programs for April 2019



May 21, 2019
Public

Pacific Gas and Electric Company ("PG&E") hereby submits this report on Interruptible Load and Demand Response Programs for April 2019. 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
April 2019

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, 2019
	Service Accounts	Ex Ante Estimated MW	Ex Post Estimated MW	Service Accounts	Ex Ante Estimated MW	Ex Post Estimated MW	Service Accounts	Ex Ante Estimated MW	Ex Post Estimated MW	Service Accounts	Ex Ante Estimated MW	Ex Post Estimated MW	Service Accounts	Ex Ante Estimated MW	Ex Post Estimated MW	Service Accounts	Ex Ante Estimated MW	Ex Post Estimated MW	
PILOT PROGRAMS ¹																			
SSP II (Load Decrease)																			
Non-Residential ⁴	34	N/A	N/A	36	N/A	N/A	37	N/A	N/A	39	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							N/A
XSP (Load Increase)																			
Non-Residential	9	N/A	N/A	9	N/A	N/A	9	N/A	N/A	10	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							N/A
INTERRUPTIBLE RELIABILITY PROGRAMS ³																			
BIP - Day Of	473	235	246	421	216	219	473	253	246	481	274	250							10,935
OBMC	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							N/A
SmartAC™ - Commercial	0	0	0	0	0	0	0	0	0	0	0	0							N/A
SmartAC™ - Residential	108,211	0	34	107,354	0	33	106,475	0	33	105,533	0	33							N/A
Sub-Total Interruptible	108,700	235	279	107,791	216	252	106,964	253	279	106,030	274	282							
PRICE-RESPONSIVE PROGRAMS ²																			
CBP - Day Ahead	0	0	0	0	0	0	0	0	0	0	0	0							603,881
PDP (200 kW or above)	1,543	8	22	1,428	8	20	1,410	8	20	1,401	8	20							7,299
PDP (above 20 kW & below 200 kW)	29,937	0	4	27,979	0	4	27,691	0	4	27,355	0	4							95,833
PDP (20 kW or below)	105,256	0	0	104,326	0	0	103,605	0	0	102,598	0	0							315,414
SmartRate™ - Residential	88,309	2	14	77,281	2	12	76,503	2	12	66,544	4	11							N/A
Sub-Total Price Response	225,045	10	40	211,014	10	37	209,209	10	36	197,898	12	34							
Total All Programs	333,745	245	319	318,805	226	288	316,173	262	315	303,928	286	317							
Programs	July			August			September			October			November			December			Eligible Accounts as of Jan 1, 2019
	Service Accounts	Ex Ante Estimated MW	Ex Post Estimated MW	Service Accounts	Ex Ante Estimated MW	Ex Post Estimated MW	Service Accounts	Ex Ante Estimated MW	Ex Post Estimated MW	Service Accounts	Ex Ante Estimated MW	Ex Post Estimated MW	Service Accounts	Ex Ante Estimated MW	Ex Post Estimated MW	Service Accounts	Ex Ante Estimated MW	Ex Post Estimated MW	
PILOT PROGRAMS ¹																			
SSP II (Load Decrease)																			
Non-Residential ⁴																			N/A
Residential																			N/A
XSP (Load Increase)																			
Non-Residential																			N/A
Residential																			N/A
INTERRUPTIBLE RELIABILITY PROGRAMS ³																			
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 ²																			
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 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, 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, 2019 (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, 2019 (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 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.

² There are some SmartRate™ Residential customers (<.05%) not reflected in the summary or rate code count as program eligibility is being confirmed.

³ 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.

⁴ Revised February Non-residential SSP II (Load Decrease) Service Account count.

Pacific Gas and Electric Company
Average Ex Ante Load Impact kW / Customer
April 2019

Program Eligibility and Ex Ante Average Load Impacts¹

Program	Average Ex Ante Load Impact kW / Customer												Eligible Accounts as of Jan 1, 2019	Eligibility Criteria (Refer to tariff for specifics)
	January	February	March	April	May	June	July	August	September	October	November	December		
BIP - Day Of	496.82	513.23	534.51	570.28	601.49	632.75	611.62	602.71	575.26	576.11	537.31	519.27	10,900	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	0.30	0.50	0.52	0.49	0.43	0.18	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	40.29	40.29	40.29	40.29	40.29	40.29	N/A	N/A	5.4 Million	PG&E customers receiving bundled service, Community Choice Aggregation (CCA) service, or Direct Access (DA) service and being billed on a PG&E residential, commercial, industrial, or agricultural electric rate schedule.
PDP (200 kW or above)	5.49	5.49	5.49	5.80	6.02	5.50	6.99	6.25	6.25	5.92	5.49	5.49	7,000	Default beginning on: May 1, 2010 for bundled C&I Customers >200kW
PDP (above 20 kW & below 200 kW)	0.00	0.00	0.00	0.00	-0.20	0.01	0.03	0.01	0.00	-0.06	0.00	0.00	90,000	Maximum Demand: February 1st, 2011 for large bundled Ag customers;
PDP (20 kW or below)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	315,000	November 2014 for bundled C&I Customers with <200 kW Maximum Demand and 12 consecutive months of interval data.
SmartRate™ - Residential	0.02	0.02	0.02	0.05	0.09	0.13	0.14	0.13	0.12	0.06	0.02	0.02	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, 2019 (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 at 4 - 9 pm on the PG&E system peak day of the month.

Pacific Gas and Electric Company
Average ExPost Load Impact kW / Customer
April 2019

Program Eligibility and Ex Post Average Load Impacts ¹

Program	Average Ex Post Load Impact kW / Customer												Eligible Accounts as of Jan 1, 2019	Eligibility Criteria (Refer to tariff for specifics)
	January	February	March	April	May	June	July	August	September	October	November	December		
BIP - Day Of	519.05	519.05	519.05	519.05	519.05	519.05	519.05	519.05	519.05	519.05	519.05	519.05	10,900	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.
SmartAC™ - Residential	0.31	0.31	0.31	0.31	0.31	0.31	0.31	0.31	0.31	0.31	0.31	0.31	Not Available	Residential customers taking service under applicable rate schedules equipped with central or packaged DX air conditioning equipment.
CBP - Day Ahead	44.34	44.34	44.34	44.34	44.34	44.34	44.34	44.34	44.34	44.34	44.34	44.34	5.4 Million	PG&E customers receiving bundled service, Community Choice Aggregation (CCA) service, or Direct Access (DA) service and being billed on a PG&E residential, commercial, industrial, or agricultural electric rate schedule.
PDP (200 kW or above)	13.97	13.97	13.97	13.97	13.97	13.97	13.97	13.97	13.97	13.97	13.97	13.97	7,000	Default beginning on: May 1, 2010 for bundled C&I Customers >200kW 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 (above 20 kW & below 200 kW)	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	90,000	
PDP (20 kW or below)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	315,000	
SmartRate™ - Residential	0.16	0.16	0.16	0.16	0.16	0.16	0.16	0.16	0.16	0.16	0.16	0.16	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, 2019 (R.13-09-011). Estimated Average Ex Post Load Impact kW / Customer = Average kW / Customer service account from the typical event for the preceding 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.

Table I-2
Pacific Gas and Electric Company
Program Subscription Statistics
April 2019

2019 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	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	0.00	0.00	0.00									
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	0.00	0.00	0.00									
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	0.00	0.00	0.00									
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	0.00	0.00	0.00									
PRICE-RESPONSIVE PROGRAMS																									
CBP																									
PDP	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	0.00	0.00	0.00									
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	0.01	0.00	0.00									
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	0.00	0.00	0.00									
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	0.00	0.00	0.00									
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	0.00	0.00	0.00									
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	0.01	0.00	0.00									
INTERRUPTIBLE RELIABILITY PROGRAMS																									
BIP - Day of																									
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	0.00	0.00	0.00									
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	0.00	0.00	0.00									
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	0.00	0.00	0.00									
TOTAL TECHNOLOGY MWs																									
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 0.01 0.00 0.00																									
GENERAL PROGRAM																									
TA (may also be enrolled in TI and AutoDR)																									
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									
TOTAL TA MWs																									
0.0 N/A N/A N/A 0.0 N/A N/A N/A N/A 0.0 N/A 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	TA Identified MWs	Auto DR Verified MWs ¹	TI Verified MWs	Total Technology MWs	
PILOT PROGRAMS																									
SSP II (Load Decrease)																									
Non-Residential																									
Residential																									
XSP (Load Increase)																									
Non-Residential																									
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INTERRUPTIBLE 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																									

¹ADR Non-Residential MWs are verified after installation of the equipment and customers have been paid 60% incentive for customers >200 kW. Actual performance is measured after the first full year of DR program participation and the remaining 40% incentive is paid based on performance values. Office and Retail <499 kW excepted and paid at 100%. Unable to verify IR
²As 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 but PG&E is unable to determine the capacity associated with these ADR-enabled devices.

**Table I-3a
Pacific Gas and Electric Company
Demand Response Programs and Activities
2018-22 Incremental Cost Funding
April 2019**

2018 Program Expenditures ¹

Cost Item	2017 Expenditures	2018 Expenditures	January	February	March	April	May	June	July	August	September	October	November	December	Year-to-Date 2019 Expenditures	Program-to-Date 2019 Admin Expenditures	2018-22 Funding ³	Fund shift Adjustments	Percent Funding ³
Category 1: Supply-Side DR Programs																			
AC Cycling: Smart AC	\$0	\$4,906,619	\$243,948	\$183,028	\$293,765	\$435,861									\$1,156,602	\$6,063,221	\$31,978,000		19.9%
Base Interruptible Program (BIP)	\$0	\$353,891	\$23,166	\$29,856	\$29,288	\$27,982									\$110,291	\$464,182	\$161,770,000		21.1%
Capacity Bidding Program (CBP)	\$0	\$411,485	\$26,308	\$32,621	\$31,902	\$30,313									\$121,145	\$532,630	\$20,518,000		10.5%
Budget Category 1 Total	\$0	\$5,671,995	\$293,422	\$245,505	\$354,956	\$494,156									\$1,388,038	\$7,060,033	\$214,266,000	\$0	3.3%
Category 2: Load Modifying DR Programs																			
OMBC/SLRP	\$0	\$6,618	\$677	\$312	\$701	\$88									\$1,779	\$8,396	\$63,000		13.3%
Permanent Load Shifting (PLS)	\$0	\$0	\$0	\$0	\$0	\$0									\$0	\$0	\$0		0.0%
Budget Category 2 Total	\$0	\$6,618	\$677	\$312	\$701	\$88									\$1,779	\$8,396	\$63,000	\$0	13.3%
Category 3: DRAM and Rule 24/32																			
DRAM Phase 4	\$6,548	\$117,661	\$5,485	\$19,067	\$17,268	\$7,718									\$49,538	\$173,747	\$6,000,000		2.9%
Rule 24 DSM	\$0	\$978,544	\$85,898	\$84,096	\$216,073	\$118,213									\$534,280	\$1,482,824	\$12,931,000		11.5%
Budget Category 3 Total	\$6,548	\$1,096,205	\$91,383	\$103,163	\$233,341	\$125,931									\$553,819	\$1,656,571	\$18,931,000	\$0	8.8%
Category 4: Emerging & Enabling Programs																			
Auto DR	\$0	\$2,289,176	\$160,229	\$152,867	\$138,107	\$169,590									\$620,794	\$2,909,970	\$20,446,000		14.2%
DR Emerging Technology	\$0	\$612,928	\$71,805	\$46,599	\$39,294	\$36,473									\$194,172	\$807,100	\$7,230,000		11.2%
Budget Category 4 Total	\$0	\$2,902,104	\$232,034	\$199,466	\$177,402	\$206,063									\$814,965	\$3,717,069	\$27,676,000	\$0	13.4%
Category 5: Pilots																			
Supply Side Pilot	\$0	\$531,947	\$33,774	\$65,589	\$149,473	\$87,897									\$336,734	\$868,681	\$6,337,000		15.7%
Excess Supply	\$0	\$402,119	\$23,102	\$29,516	\$32,193	\$24,451									\$109,261	\$511,380	\$1,813,000		42.8%
Local Capacity Planning Areas and Disadvantaged Communities Pilot	\$0	\$0	\$0	\$0	\$0	\$0									\$0	\$0	\$1,000,000		0.0%
Budget Category 5 Total	\$0	\$934,066	\$56,876	\$95,105	\$181,666	\$112,348									\$445,995	\$1,380,061	\$9,150,000	\$0	15.1%
Category 6: Marketing, Education, and Outreach (ME&O)																			
DR Core Marketing & Outreach	\$0	\$2,117,477	\$22,924	\$25,283	\$43,391	\$28,179									\$119,777	\$2,237,254	\$12,221,000		18.3%
Education and Training	\$0	\$59,672	\$4,871	\$2,304	\$7,495	\$7,494									\$22,164	\$81,836	\$1,350,000		6.1%
Budget Category 6 Total	\$0	\$2,177,149	\$27,794	\$27,586	\$50,887	\$35,674									\$141,941	\$2,319,090	\$13,571,000	\$0	17.1%
Category 7: Portfolio Support (Includes EM&V, Systems Support, and Notifications)																			
DR Measurement and Evaluation (DRMEC)	\$0	\$828,689	\$198,258	\$233,062	\$141,913	\$145,780									\$719,014	\$1,547,703	\$11,777,000		13.1%
DR Integration Policy & Planning	\$0	\$1,659,483	\$106,175	\$126,824	\$173,797	\$107,568									\$514,363	\$2,173,846	\$8,386,000		25.9%
Support for Market Activities	\$0	\$2,574,481	\$366,080	\$514,739	\$311,098	\$449,908									\$1,641,825	\$4,216,306	\$13,524,000		31.2%
Support for Retail & Customer Facing Activities	\$0	\$5,005,602	\$306,198	\$95,130	\$351,166	\$376,581									\$1,129,075	\$6,134,677	\$19,928,000		30.8%
DR Potential Study	\$0	\$0	\$0	\$0	\$0	\$0									\$0	\$0	\$2,000,000		0.0%
Budget Category 7 Total	\$0	\$10,068,255	\$976,711	\$969,755	\$977,974	\$1,079,838									\$4,004,277	\$14,072,532	\$55,615,000	\$0	25.3%
Category 8: Integrated Programs and Activities (Including Technical Assistance) ²																			
Technology Incentives - IDSM	\$0	\$0	\$0	\$0	\$0	\$0									\$0	\$0	\$0		0.0%
Integrated Energy Audits	\$0	\$30,321	\$0	\$0	\$0	\$0									\$0	\$30,321	\$30,321		100.0%
Residential IDSM	\$0	\$0	\$0	\$0	\$0	\$0									\$0	\$0	\$5,000,000		0.0%
Non Residential IDSM	\$0	\$0	\$0	\$0	\$0	\$0									\$0	\$0	\$39,969,679		0.0%
Budget Category 8 Total	\$0	\$30,321	\$0	\$0	\$0	\$0									\$0	\$30,321	\$45,000,000	\$0	0.1%
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	\$1,992,495	\$162,424	\$162,281	\$161,109	\$160,898									\$646,711	\$2,639,206	\$0		0.0%
Total Incremental Cost ³	\$6,548	\$24,879,208	\$1,841,322	\$1,803,173	\$2,138,035	\$2,214,996									\$7,997,525	\$32,883,281	\$384,272,000	\$0	8.6%
Technical Assistance & Technology Incentives (TA&TI) Identified as of April 2019	\$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 was to continue through 2025 unless the Commission issues a superseding funding decision. On May 31 2018, the Commission issued a superseding decision via the EE Business Plan which allocated \$9m to PG&E for IDSM projects (\$1m to Residential and \$8m to non-Residential). Since the funding was approved after the cycle had started, PG&E incurred some costs for Integrated Energy Audits prior to the decision being issued - those funds have now been redirected as per the EE Business Plan decision.

³ Total Incremental Cost excludes incentives (only Admin costs are reported here). Incentives are reported on Table I-5. 2018-22 Funding and Percent Funding includes incentives (reported on Table I-5) to accurately show budget used.

Table I-3b
Pacific Gas and Electric Company
Demand Response Programs and Activities
Carry-Over Expenditures and Funding
April 2019

Cost Item ¹	January	February	March	April	May	June	July	August	September	October	November	December	Carry-Over Expenditures incurred in 2019
Category 1: Reliability Programs													
Base Interruptible Program (BIP)	\$0	\$0	\$0	\$0									\$0
Optional Bidding Mandatory Curtailment / Scheduled Load Reduction (OBMC / SLRP)	\$0	\$0	\$0	\$0									\$0
Budget Category 1 Total	\$0	\$0	\$0	\$0									\$0
Category 2: Price-Responsive Programs													
Capacity Bidding Program (CBP)	\$0	\$0	\$0	\$0									\$0
SmartAC™	\$0	\$0	\$0	\$0									\$0
Budget Category 2 Total	\$0	\$0	\$0	\$0									\$0
Category 3: DR Provider/Aggregator Managed Programs													
Aggregator Managed Portfolio (AMP)	\$0	\$0	\$0	\$0									\$0
Budget Category 3 Total	\$0	\$0	\$0	\$0									\$0
Category 4: Emerging & Enabling Programs													
Auto DR	\$19,920	\$39,540	\$51,500	\$14,350									\$125,310
DR Emerging Technology	\$0	\$0	\$0	\$0									\$0
Budget Category 4 Total	\$19,920	\$39,540	\$51,500	\$14,350									\$125,310
Category 5: Pilots													
Supply Side Pilot	\$0	\$0	\$0	\$0									\$0
Excess Supply	\$0	\$0	\$0	\$0									\$0
Budget Category 5 Total	\$0	\$0	\$0	\$0									\$0
Category 6: Evaluation, Measurement and Verification													
DRMEC	\$0	\$0	\$0	\$0									\$0
DR Research Studies	\$20,000	\$10,000	\$57,387	\$14,763									\$102,150
Budget Category 6 Total	\$20,000	\$10,000	\$57,387	\$14,763									\$102,150
Category 7: Marketing, Education and Outreach													
DR Core Marketing and Outreach	\$0	\$0	\$0	\$0									\$0
SmartAC™ ME&O	(\$384)	\$5,817	(\$5,817)	\$0									(\$384)
Education and Training	\$0	\$0	\$255	\$0									\$255
Budget Category 7 Total	(\$384)	\$5,817	(\$5,562)	\$0									(\$129)
Category 8: DR System Support Activities													
InterAct / DR Forecasting Tool	\$0	\$0	\$0	\$0									\$0
DR Enrollment & Support ²	\$0	\$0	\$0	\$0									\$0
Notifications	\$65	\$0	\$0	(\$67,940)									(\$67,875)
DR Integration Policy & Planning	\$0	\$0	\$0	\$0									\$0
Budget Category 8 Total	\$65	\$0	\$0	(\$67,940)									(\$67,875)
Category 9: Integrated Programs and Activities (Including Technical Assistance)													
Technology Incentives - IDSM	\$0	\$0	\$0	\$0									\$0
Integrated Energy Audits	(\$1,527)	\$0	\$0	\$0									(\$1,527)
Budget Category 9 Total	(\$1,527)	\$0	\$0	\$0									(\$1,527)
Category 10: Special Projects													
Demand Response Auction Mechanism Pilot Phase 1	\$0	\$0	\$0	\$0									\$0
Demand Response Auction Mechanism Pilot Phase 2	\$627	(\$470)	\$434	\$1,134									\$1,726
Demand Response Auction Mechanism Pilot Phase 3	\$7,897	\$24,060	\$22,067	\$7,401									\$61,426
Rule 24 O&M	\$0	\$0	\$0	\$0									\$0
Permanent Load Shifting	\$3,461	\$5,672	\$700	\$1,134									\$10,967
Budget Category 10 Total	\$11,985	\$29,263	\$23,201	\$9,669									\$74,119
Total Incremental Cost	\$50,060	\$84,619	\$126,526	(\$29,158)									\$232,048

¹ Expenditures on this page reflect expenses incurred in 2019 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
April 2019**

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 Tolerated Hours	Load Reduction MW (Max Hourly) ^{2,3}
Category 1: Reliability Programs											
Base Interruptible Program	FEB	SLAP_PGZP	1	2/23/2019	Day Of	Transmission Emergency	119	7:00 PM	10:00 PM	3	REDACTED
Base Interruptible Program	MAR	SubLap/Zones (14): Central Coast PGCC ; East Bay (Bay Area) PGEB ; Fresno PGF1 ; Geysers PGFG ; Humbolt PGHB ; Kern PGKN ; North Bay PGNB ; North Coast PGNC ; North of Path 15 PGNP ; Peninsula (Bay Area) PGP2 ; San Francisco (Bay Area) PGSF ; Sierra PGSI ; South Bay (Bay Area) PGSB ; Stockton PGST	2	3/12/2019	Day Of	PG&E Test	303	6:30 AM	9:30 AM	3	170.5
Optional Bidding Mandatory Curtailment (OBMC) / Scheduled Load Reduction (SLRP)											
Category 2: Price-Responsive Programs											
Capacity Bidding Program											
Peak Day Pricing											
SmartAC											
SmartRate											

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, 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.

Table I-5a
Pacific Gas and Electric Company
2018-22 Demand Response Programs Incentives
April 2019

Annual Total Cost															
Cost Item	2018 Expenditures	January	February	March	April	May	June	July	August	September	October	November	December	Year-to-Date Total Cost	Program-to-Date Total Cost
Program Incentives															
Automatic Demand Response (AutoDR)	\$0	\$0	\$0	\$0										\$0	\$0
Base Interruptible Program (BIP)	\$26,647,119	\$1,773,680	\$ 1,375,018	\$ 1,718,461	\$2,116,530									\$6,983,690	\$33,630,809
Capacity Bidding Program (CBP) ¹	\$1,612,847	\$4,361	\$0	(\$884)	\$0									\$3,478	\$1,616,325
DRAM Phase 4 ²	REDACTED	REDACTED	REDACTED	REDACTED	REDACTED									REDACTED	REDACTED
Excess Supply Pilot	\$213,683	\$12,168	\$22,650	(\$2,019)	\$18,560									\$51,359	\$265,042
SmartAC™	\$265,350	\$1,100	\$750	\$23,500	\$2,550									\$27,900	\$293,250
Supply Side Pilot	\$91,720	\$15,465	\$9,600	\$3,136	\$5,079									\$33,280	\$125,001
Total Cost of Incentives	\$28,830,720	\$1,806,774	\$1,408,018	\$1,742,195	\$2,142,719									\$7,099,707	\$35,930,427
Revenues from Penalties ³	\$ 646,138	\$185,994	\$0	\$0	\$0									\$185,994	\$832,132

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

Table I-5b
Pacific Gas and Electric Company
Demand Response Programs and Activities
Carryover and Incentive Funding
April 2019

Annual Total Cost													
Cost Item ¹	January	February	March	April	May	June	July	August	September	October	November	December	Carry-Over Incentives incurred in 2019
Program Incentives													
Automatic Demand Response (AutoDR)	\$0	\$0	\$0	\$0									\$0
Base Interruptible Program (BIP)	\$0	\$0	\$0	\$0									\$0
Capacity Bidding Program (CBP)	\$0	\$0	\$0	\$0									\$0
DRAM Phase 1 ²	REDACTED	REDACTED	REDACTED	REDACTED									REDACTED
DRAM Phase 2 ²	REDACTED	REDACTED	REDACTED	REDACTED									REDACTED
DRAM Phase 3 ²	REDACTED	REDACTED	REDACTED	REDACTED									REDACTED
Excess Supply Pilot	\$0	\$0	\$0	\$0									\$0
Permanent Load Shift	\$0	\$0	\$0	\$0									\$0
Supply Side Pilot	\$0	\$0	\$0	\$0									\$0
SmartAC™	\$1,550	\$20	\$0	\$1,600									\$3,170
Total Cost of Incentives	\$1,550	\$20	\$0	\$1,600									\$3,170
Revenues from Penalties	\$0	\$0	\$0	\$0									

¹ Incentives on this page reflect incentives paid in 2019 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.

Table I-7
Pacific Gas and Electric Company
2018-22 Marketing, Education and Outreach
Actual Expenditures
April 2019

PG&E's ME&O Actual Expenditures	2018 Expenditures	2018-22 Funding Cycle Customer Communication, Marketing, and Outreach												Year-to-Date 2019 Expenditures	Total Funding Cycle expenditures to date	2019 Authorized Budget (if Applicable)	2018-22 Authorized Budget (if Applicable)	
		January	February	March	April	May	June	July	August	September	October	November	December					
I. STATEWIDE MARKETING																		
IOU Administrative Costs	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Statewide ME&O contract	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
I. TOTAL STATEWIDE MARKETING	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
II. UTILITY MARKETING BY ACTIVITY¹																		
TOTAL AUTHORIZED UTILITY MARKETING BUDGET																		\$2,650,000
PROGRAMS, RATES & ACTIVITIES WHICH DO NOT REQUIRE ITEMIZED ACCOUNTING																		\$13,570,000
Integrated Demand Side Marketing	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	N/A	N/A	N/A	N/A	
Marketing My Account/Energy and Integrated Online Audit Tools	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
Critical Peak Pricing > 200 kW	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	N/A	N/A	N/A	N/A	
Demand Bidding Program	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
Real Time Pricing	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	N/A	N/A	N/A	N/A	
Permanent Load Shifting	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
Circuit Savers	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	N/A	N/A	N/A	N/A	
Small Commercial Technology Deployment	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	N/A	N/A	N/A	N/A	
Enabling Technologies (e.g., AutoDR, TI)	\$ 132,685	\$ 6,816	\$ 6,512	\$ 9,511	\$ 7,614												\$ 30,453	\$ 163,137.95
PeakChoice	N/A	N/A																
Customer Awareness, Education and Outreach	\$ 199,027	\$ 10,225	\$ 9,769	\$ 14,266	\$ 11,420												\$ 45,680	\$ 244,706.94
PROGRAMS & RATES WHICH REQUIRE ITEMIZED ACCOUNTING																		
SmartAC	\$ 1,752,947	\$ 10,753	\$ 11,306	\$ 27,357	\$ 16,640												\$ 66,056	\$ 1,819,002.83
Customer Research	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
Collateral- Development, Printing, Distribution etc. (all non-labor costs)	\$ 1,598,611	\$ 787	\$ 3,599	\$ 14,402	\$ 3,734												\$ 22,522	\$ 1,621,133
Labor	\$ 137,890	\$ 9,966	\$ 7,706	\$ 12,955	\$ 12,906												\$ 43,534	\$ 181,424
Paid Media	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
Other Costs	\$ 16,446	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 16,446
II. TOTAL UTILITY MARKETING BY ACTIVITY	\$ 2,084,659	\$ 27,794	\$ 27,586	\$ 51,134	\$ 35,674	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 142,189	\$ 2,226,847.72
III. UTILITY MARKETING BY ITEMIZED COST																		
Customer Research	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
Collateral- Development, Printing, Distribution etc. (all non-labor costs)	\$ 1,716,183	\$ 839	\$ 3,599	\$ 14,402	\$ 4,626												\$ 23,466	\$ 1,739,649
Labor	\$ 339,335	\$ 25,601	\$ 22,633	\$ 36,740	\$ 29,693												\$ 114,666	\$ 454,001
Paid Media	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
Other Costs	\$ 29,141	\$ 1,355	\$ 1,355	\$ -	\$ 1,355												\$ 4,064	\$ 33,205
III. TOTAL UTILITY MARKETING BY ITEMIZED COST	\$ 2,084,659	\$ 27,794	\$ 27,586	\$ 51,142	\$ 35,674	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 142,196	\$ 2,226,855.24
IV. UTILITY MARKETING BY CUSTOMER SEGMENT																		
Agricultural	\$ 49,757	\$ 2,556	\$ 2,442	\$ 3,568	\$ 2,855												\$ 11,421	\$ 61,178
Large Commercial and Industrial	\$ 281,955	\$ 14,485	\$ 13,839	\$ 20,217	\$ 16,179												\$ 64,720	\$ 346,675
Small and Medium Commercial	\$ -	\$ -	\$ -	\$ -	\$ -												\$ -	\$ -
Residential	\$ 1,752,947	\$ 10,753	\$ 11,306	\$ 27,357	\$ 16,640												\$ 66,056	\$ 1,819,003
IV. TOTAL UTILITY MARKETING BY CUSTOMER SEGMENT	\$ 2,084,659	\$ 27,794	\$ 27,586	\$ 51,142	\$ 35,674	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 142,196	\$ 2,226,855.24

¹Utility Marketing includes all activities to market individual utility programs or rates, demand response concepts, and customer tools, that were approved or directed by Decision 14-05-025, whether or not the marketing budget was approved as a line item in the Decision. For example, PG&E should not include marketing for TOU and PDP because funding was authorized in another proceeding. However, PG&E must document all amounts spent on marketing individual demand response programs even though a specific marketing budget was not approved for the program. This example applies to all of the utilities. The programs and activities listed in item II of the template are meant as examples, and may not be exhaustive. However, the utilities must include all programs or rates that meet this description. The totals for items II, III and IV should be equal.

**Pacific Gas and Electric Company
2019 Fund Shifting Documentation
April 2019**

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			