

**BEFORE THE PUBLIC UTILITIES COMMISSION
OF THE STATE OF CALIFORNIA**

Application of Southern California Edison
Company (U338E) for Approval of Energy
Efficiency Rolling Portfolio Business Plan.

Application 17-01-013
(Filed January 17, 2017)

And Related Matters.

Application 17-01-014
Application 17-01-015
Application 17-01-016
Application 17-01-017

**PACIFIC GAS AND ELECTRIC COMPANY'S (U 39-M)
ENERGY EFFICIENCY BUSINESS PLAN PORTFOLIO AND SECTOR-LEVEL
METRICS**

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Dated: August 6, 2018

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Application of Southern California Edison Company (U338E) for Approval of Energy Efficiency Rolling Portfolio Business Plan.	Application 17-01-013 (Filed January 17, 2017)
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**PACIFIC GAS AND ELECTRIC COMPANY’S (U 39-M)
ENERGY EFFICIENCY BUSINESS PLAN PORTFOLIO AND SECTOR-LEVEL
METRICS**

I. INTRODUCTION

Pacific Gas and Electric (PG&E) timely files its *Energy Efficiency Business Plan Portfolio and Sector-Level Metrics* (Metrics Compliance Filing) with the California Public Utilities Commission (CPUC or Commission) in compliance with the *Decision Addressing Energy Efficiency Business Plans*, Decision (D.) 18-05-041. D.18-05-041 includes a list of the metrics and indicators, and directs the energy efficiency program administrators (PAs) to work with Commission Staff to finalize and file an updated set of metrics within 60 days of the decision.^{1/} D.18-05-041 also directs PG&E to update its metrics with the adopted definition of disadvantaged communities^{2/} and incorporate new metrics.^{3/} PG&E’s final business plan portfolio and sector-level metrics are provided in Attachment 1.

II. PG&E’S PORTFOLIO AND SECTOR-LEVEL METRICS COMPLIANCE FILING

Since the issuance of the decision, the PAs held weekly meetings with Commission Staff to work towards a common set of definitions for all metrics in D.18-05-041. The PAs also

1/ Decision (D.) 18-05-041, OP 9.

2/ D.18-05-041, OP 11.

3/ D.18-05-041, pp. 24-28.

discussed the metrics with Commission Staff and stakeholders at the June 6, 2018 California Energy Efficiency Coordinating Committee (CAEECC) meeting. Throughout this process, PG&E made a good faith effort to align its metrics reporting with the other PAs to the greatest extent possible, and to incorporate guidance from Commission Staff.

Although significant progress has been made towards establishing a more consistent set of common metrics, there are still gaps that must be addressed to consistently report the metrics as intended.^{4/} Where data is not currently available, PG&E's provides best estimates using readily available information.^{5/} PG&E is committed to continuously refining the metrics through new data collection and reporting processes and studies as needed. PG&E may update its metrics as new data becomes available to ensure the metrics have longevity and provide meaningful insights into portfolio and sector-level performance.

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4/ For example, energy savings potential for the Public sector is not defined and will be developed through the evaluation, measurement, and verification (EM&V) process, per D.17-09-025, OP 3.

5/ The *Administrative Law Judge's Ruling Seeking Comment on Energy Efficiency Business Plan Metrics*, issued May 10, 2017, provides guiding principles for energy efficiency metrics. Among them is the emphasis that metrics should rely on readily available data to increase reporting efficiency and minimize costs.

III. CONCLUSION

PG&E respectfully submits its Metrics Compliance Filing (Attachment 1) as required by D.18-05-041.

Respectfully Submitted,

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Dated: August 6, 2018

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ATTACHMENT

Attachment 1: Metrics Compliance Filing

Index	PA Page	ATA Order	Method Code	Units of Measurement	Metric Type	Metric/Indicator	Business Plan/ATA Description	Metric	Sector	Baseline Year	Baseline Number	Baseline Date	Short-Term Annual Targets (2018-2020)			Long-Term Annual Target (2024-2025)	Methodology	Key Definitions	Proxy Explanation				
													2018 Target	2019 Target	2020 Target								
0	A03	P11	G	MTC CO2e	NET: Energy Savings	Metric	Greenhouse gases (MT CO2e) Net kWh savings reported on an annual basis	CO2-equivalent of net annual kWh savings	Portfolio Level (PU)- All Sectors	2016	503,033	N/A	N/A	433,280	475,653	474,409	300,442	509,241	509,241	Calculated using CEM and reported by the reporting entity. Includes codes and standards: BayREN, MCE, and ISA not included.	Includes CO2 but not MDX and PM10 as these are not GHG equivalents.		
1	PG&E A02	P11	S1	First year annual kWh gross	S1: Energy Savings	Metric	First year annual and lifecycle savings (pre-evaluation) gas, electric, and demand savings (gross and net)	First year annual kWh gross	Portfolio Level (PU)- All Sectors	2016	292,190	N/A	N/A	226,595	244,026	255,705	300,778	309,778	309,778	Portfolio Energy Savings include Codes and Standards, USA, Bay Area Regional Energy Network (BayerEN), and Alameda Clean Energy (ACE). Consistent with how portfolio savings are reported in the annual reports. 2016 achievements align with savings reported in 2016 Annual Report.	Codes and Standards savings are net with 5% market effect.		
2	PG&E A02	P11	S1	First year annual kWh net	S1: Energy Savings	Metric	First year annual and lifecycle savings (pre-evaluation) gas, electric, and demand savings (gross and net)	First year annual kWh net	Portfolio Level (PU)- All Sectors	2016	200,922	N/A	N/A	203,694	221,115	234,078	279,688	279,688	279,688	295,884	Portfolio Energy Savings include Codes and Standards, USA, Bay Area Regional Energy Network (BayerEN), and Alameda Clean Energy (ACE). Consistent with how portfolio savings are reported in the annual reports. 2016 achievements align with savings reported in 2016 Annual Report.	Codes and Standards savings are net with 5% market effect.	
3	PG&E A02	P11	S1	First year annual kWh gross	S1: Energy Savings	Metric	First year annual and lifecycle savings (pre-evaluation) gas, electric, and demand savings (gross and net)	First year annual kWh gross	Portfolio Level (PU)- All Sectors	2016	1,406,293,178	N/A	N/A	1,098,820,300	1,204,324,338	1,197,453,793	1,295,222,099	1,312,081,001	1,312,081,001	1,312,081,001	Portfolio Energy Savings include Codes and Standards, USA, Bay Area Regional Energy Network (BayerEN), and Alameda Clean Energy (ACE). Consistent with how portfolio savings are reported in the annual reports. 2016 achievements align with savings reported in 2016 Annual Report.	Codes and Standards savings are net with 5% market effect.	
4	PG&E A02	P11	S1	First year annual kWh net	S1: Energy Savings	Metric	First year annual and lifecycle savings (pre-evaluation) gas, electric, and demand savings (gross and net)	First year annual kWh net	Portfolio Level (PU)- All Sectors	2016	1,277,103,842	N/A	N/A	982,811,096	1,078,924,937	1,076,104,441	1,152,845,111	1,180,520,489	1,180,520,489	1,180,520,489	Portfolio Energy Savings include Codes and Standards, USA, Bay Area Regional Energy Network (BayerEN), and Alameda Clean Energy (ACE). Consistent with how portfolio savings are reported in the annual reports. 2016 achievements align with savings reported in 2016 Annual Report.	Codes and Standards savings are net with 5% market effect.	

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													2018 Target	2019 Target	2020 Target						
5	PG&E	A02	P11	S1	First year annual Thermo gross	S1: Energy Savings	Metric	First year annual and lifecycle ex-ante (pre-evaluation) electric, and demand savings (gross and net)	First year annual Thermo gross	Portfolio Level (PU)- All Sectors	N/A	25,593,324	32,743,548	35,932,646	37,755,503	47,690,586	50,128,882	Portfolio Energy Savings include Codes and Standards, E&A, Bay Area Regional Energy Network (B-ayREN), and Mean Well (M-Well) (MW) savings. Consistent with Clean Energy (CE) savings. 2016 achievements align with savings reported in 2016 Annual Report. Targets are aligned with CEUC adopted goals in O.17-09-025 and the 2018 Potential and Goals Study.	Codes and Standards savings are net with 5% market effects.		
6	PG&E	A02	P11	S1	First year annual Thermo net	S1: Energy Savings	Metric	First year annual and lifecycle ex-ante (pre-evaluation) electric, and demand savings (gross and net)	First year annual Thermo net	Portfolio Level (PU)- All Sectors	N/A	21,221,406	30,899,241	33,583,873	35,707,731	41,979,275	43,300,087	Portfolio Energy Savings include Codes and Standards, E&A, Bay Area Regional Energy Network (B-ayREN), and Mean Well (M-Well) (MW) savings. Consistent with Clean Energy (CE) savings. 2016 achievements align with savings reported in 2016 Annual Report. Targets are aligned with CEUC adopted goals in O.17-09-025 and the 2018 Potential and Goals Study.	Codes and Standards savings are net with 5% market effects.		
7	PG&E	A02	P11	S1	Lifecycle ex-ante kW gross	S1: Energy Savings	Metric	PL-S1- First year annual and lifecycle ex-ante (pre-evaluation) electric, and demand savings (gross and net)	Lifecycle ex-ante kW gross	Portfolio Level (PU)- All Sectors	N/A	2,914,321	2,240,149	2,433,957	2,504,422	3,029,944	3,198,918	Portfolio Energy Savings include Codes and Standards, E&A, Bay Area Regional Energy Network (B-ayREN), and Mean Well (M-Well) (MW) savings. Consistent with Clean Energy (CE) savings. 2016 achievements align with savings reported in 2016 Annual Report. Since the 2018 Potential and Goals Study does not include lifecycle savings, this metric is calculated using gross and net 2016 achievements (baseline) and first-year savings target.	Codes and Standards savings are net with 5% market effects.		
8	PG&E	A02	P11	S1	Lifecycle ex-ante kW net	S1: Energy Savings	Metric	First year annual and lifecycle ex-ante (pre-evaluation) electric, and demand savings (gross and net)	Lifecycle ex-ante kW net	Portfolio Level (PU)- All Sectors	N/A	2,630,800	1,997,206	2,168,995	2,273,827	2,701,348	2,851,197	Portfolio Energy Savings include Codes and Standards, E&A, Bay Area Regional Energy Network (B-ayREN), and Mean Well (M-Well) (MW) savings. Consistent with regulatory reporting of portfolio energy savings. 2016 achievements align with savings reported in 2016 Annual Report. Since the 2018 Potential and Goals Study does not include lifecycle savings, this metric is calculated using gross and net 2016 achievements (baseline) and first-year savings target.	Codes and Standards savings are net with 5% market effects.		

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												2018 Target	2019 Target	2020 Target					
9	PG&E	A02	P11	S1	Lifecycle emissions kWh gross	Metric	First year annual and lifecycle ex-ante (pre-evaluation) gas, electric and demand savings (gross and net)	Lifecycle ex-ante gross	Portfolio Level (PJ)- All Sectors	N/A	N/A	11,042,762.29	12,103,040.93	12,024,024.40	N/A	12,916,135,707	13,185,977,902	Portfolio Energy Saving include Codes and Standards, USA, Bay Area Regional Clean Energy (ACE), which is consistent with regulatory reporting of portfolio energy savings. 2018 achievements are based on 2016 achievements (baseline) and first-year savings target.	Codes and Standards savings are net with 3% market effects.
10	PG&E	A02	P11	S1	Lifecycle emissions kWh/net	Metric	First year annual and lifecycle ex-ante (pre-evaluation) gas, electric and demand savings (gross and net)	Lifecycle ex-ante net	Portfolio Level (PJ)- All Sectors	N/A	N/A	10,029,041,358	10,992,863,893	10,000,365,001	N/A	11,731,735,857	11,276,444,041	Portfolio Energy Saving include Codes and Standards, USA, Bay Area Regional Clean Energy (ACE), which is consistent with regulatory reporting of portfolio energy savings. 2018 achievements are based on 2016 achievements (baseline) and first-year savings target.	Codes and Standards savings are net with 3% market effects.
11	PG&E	A02	P11	S1	Lifecycle emissions Therm gross	Metric	First year annual and lifecycle ex-ante (pre-evaluation) gas, electric and demand savings (gross and net)	Lifecycle ex-ante Therm gross	Portfolio Level (PJ)- All Sectors	N/A	N/A	382,210,264	415,450,112	440,353,845	N/A	556,694,689	581,145,330	Portfolio Energy Saving include Codes and Standards, USA, Bay Area Regional Clean Energy (ACE), which is consistent with regulatory reporting of portfolio energy savings. 2018 achievements are based on 2016 achievements (baseline) and first-year savings target.	Codes and Standards savings are net with 3% market effects.
12	PG&E	A02	P11	S1	Lifecycle emissions Therm net	Metric	First year annual and lifecycle ex-ante (pre-evaluation) gas, electric and demand savings (gross and net)	Lifecycle ex-ante Therm net	Portfolio Level (PJ)- All Sectors	N/A	N/A	340,785,333	372,267,258	390,692,554	N/A	509,720,244	503,310,339	Portfolio Energy Saving include Codes and Standards, USA, Bay Area Regional Clean Energy (ACE), which is consistent with regulatory reporting of portfolio energy savings. 2018 achievements are based on 2016 achievements (baseline) and first-year savings target.	Codes and Standards savings are net with 3% market effects.
13	PG&E	A02	P12	S3	First year annual kWh gross	Metric	First year annual and lifecycle ex-ante (pre-evaluation) gas, electric and demand savings (gross and net) (in communities)	First year annual kWh gross in Disadvantaged Communities	Portfolio Level (PJ)- All Sectors	N/A	N/A	21,821	22,709	24,844	N/A	29,514	31,160	Baseline data aligns with underlying savings data reported in the 2016 Annual Report. Targets align with the commitment of our portfolio savings goals.	DM definition adopted in D1805-041

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												2018 Target	2019 Target	2020 Target		
14	RS&E A02	P12	S3	First year annual kWh net in Disadvantaged All Sectors	S3: DAC Savings	Metric	First year annual and lifecycle ex-ante electric, and demand savings (gross and net) in disadvantaged communities	First year annual kWh net in Disadvantaged All Sectors	Portfolio Level [PU]- All Sectors	15,524	16,559	17,530	20,946	22,233	Baseline data aligns with underlying savings data reported in the 2016 Annual Report. Targets align with the movement of overall portfolio savings goals.	
15	RS&E A02	P12	S3	First year annual kWh gross	S3: DAC Savings	Metric	First year annual and lifecycle ex-ante electric, and demand savings (gross and net) in disadvantaged communities	First year annual kWh gross in Disadvantaged All Sectors	Portfolio Level [PU]- All Sectors	81,366,516	89,834,386	89,384,277	95,871,901	97,874,696	Baseline data aligns with underlying savings data reported in the 2016 Annual Report. Targets align with the movement of overall portfolio savings goals.	
16	RS&E A02	P12	S3	First year annual kWh net	S3: DAC Savings	Metric	First year annual and lifecycle ex-ante electric, and demand savings (gross and net) in disadvantaged communities	First year annual kWh net in Disadvantaged All Sectors	Portfolio Level [PU]- All Sectors	55,590,700	61,031,574	60,897,207	65,213,019	66,778,533	Baseline data aligns with underlying savings data reported in the 2016 Annual Report. Targets align with the movement of overall portfolio savings goals.	
17	RS&E A02	P12	S3	First year annual kWh gross	S3: DAC Savings	Metric	First year annual and lifecycle ex-ante electric, and demand savings (gross and net) in disadvantaged communities	First year annual kWh gross in Disadvantaged All Sectors	Portfolio Level [PU]- All Sectors	1,651,635	1,812,498	1,901,293	2,405,587	2,528,578	Baseline data aligns with underlying savings data reported in the 2016 Annual Report. Targets align with the movement of overall portfolio savings goals.	
18	RS&E A02	P12	S3	First year annual kWh net	S3: DAC Savings	Metric	First year annual and lifecycle ex-ante electric, and demand savings (gross and net) in disadvantaged communities	First year annual kWh net in Disadvantaged All Sectors	Portfolio Level [PU]- All Sectors	1,213,205	1,318,534	1,405,146	1,648,244	1,724,467	Baseline data aligns with underlying savings data reported in the 2016 Annual Report. Targets align with the movement of overall portfolio savings goals.	
19	RS&E A02	P12	S3	Lifecycle ex-ante kWh gross	S3: DAC Savings	Metric	First year annual and lifecycle ex-ante electric, and demand savings (gross and net) in disadvantaged communities	Lifecycle ex-ante kWh gross in Disadvantaged All Sectors	Portfolio Level [PU]- All Sectors	149,936	201,001	210,622	292,219	264,174	Baseline data aligns with underlying savings data reported in the 2016 Annual Report. Targets align with the movement of overall portfolio savings goals.	
20	RS&E A02	P12	S3	Lifecycle ex-ante kWh net	S3: DAC Savings	Metric	First year annual and lifecycle ex-ante electric, and demand savings (gross and net) in disadvantaged communities	Lifecycle ex-ante kWh net in Disadvantaged All Sectors	Portfolio Level [PU]- All Sectors	124,976	135,789	142,288	169,038	178,465	Baseline data aligns with underlying savings data reported in the 2016 Annual Report. Targets align with the movement of overall portfolio savings goals.	
21	RS&E A02	P12	S3	Lifecycle ex-ante kWh gross	S3: DAC Savings	Metric	First year annual and lifecycle ex-ante electric, and demand savings (gross and net) in disadvantaged communities	Lifecycle ex-ante kWh gross in Disadvantaged All Sectors	Portfolio Level [PU]- All Sectors	798,372,161	881,187,776	836,441,716	887,027,830	905,558,124	Baseline data aligns with underlying savings data reported in the 2016 Annual Report. Targets align with the movement of overall portfolio savings goals.	
22	RS&E A02	P12	S3	Lifecycle ex-ante kWh net	S3: DAC Savings	Metric	First year annual and lifecycle ex-ante electric, and demand savings (gross and net) in disadvantaged communities	Lifecycle ex-ante kWh net in Disadvantaged All Sectors	Portfolio Level [PU]- All Sectors	518,256,632	568,017,414	564,773,877	606,177,412	618,840,651	Baseline data aligns with underlying savings data reported in the 2016 Annual Report. Targets align with the movement of overall portfolio savings goals.	
23	RS&E A02	P12	S3	Lifecycle ex-ante kWh gross	S3: DAC Savings	Metric	First year annual and lifecycle ex-ante electric, and demand savings (gross and net) in disadvantaged communities	Lifecycle ex-ante kWh gross in Disadvantaged All Sectors	Portfolio Level [PU]- All Sectors	18,160,209	19,928,945	20,933,239	26,450,128	27,802,454	Baseline data aligns with underlying savings data reported in the 2016 Annual Report. Targets align with the movement of overall portfolio savings goals.	

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														2018 Target	2019 Target	2020 Target					
24	PG&E	A02	P12	S3	Lifecycle ex-ante Therm net	S3: DAC Savings	Metric	First year annual and life cycle ex-ante (pre-evaluation) gas, electric, and demand (gross and net) in disadvantaged communities	Lifecycle ex-ante Disadvantaged Communities	Portfolio Level (PU)- All Sectors	2016	8,536,556	N/A	N/A	12,032,229	13,204,132	13,862,941	18,420,795	Baseline data align with underlying savings data reported in the 2016 Annual Report. Targets align with the movement of overall portfolio savings goals.	DAC definition adopted in D.18.05.041	PG&E does not currently collect whether a commercial customer rents their facility or if a customer's primary language is other than English. Also note that this metric includes the geography and business line criteria for commercial customers and the housing type criteria for residential customers.
25	PG&E	A02	P13	S4	First year annual kW gross	S4: Hard to reach markets	Metric	First year annual and life cycle ex-ante (pre-evaluation) gas, electric, and demand (gross and net) in hard-to-reach markets	First year annual kW gross in Hard-to-Reach Markets	Portfolio Level (PU)- All Sectors	2016	51,180	N/A	N/A	39,340	42,744	44,790	56,178	Baseline data align with underlying savings data reported in the 2016 Annual Report. Targets align with the movement of overall portfolio savings goals.	HTR definition adopted in D.18.05.041	PG&E will collect all required information for tracking HTR customers and will update the metric when this data is available. Since all HTR criteria are not included, PG&E anticipates HTR metrics on savings and participation will increase once all data is available.
26	PG&E	A02	P13	S4	First year annual kW net	S4: Hard to reach markets	Metric	First year annual and life cycle ex-ante (pre-evaluation) gas, electric, and demand (gross and net) in hard-to-reach markets	First year annual kW net in Hard-to-Reach Markets	Portfolio Level (PU)- All Sectors	2016	35,092	N/A	N/A	27,439	31,532	31,532	39,992	Baseline data align with underlying savings data reported in the 2016 Annual Report. Targets align with the movement of overall portfolio savings goals.	HTR definition adopted in D.18.05.041	PG&E does not currently collect whether a commercial customer rents their facility or if a customer's primary language is other than English. Also note that this metric includes the geography and business line criteria for commercial customers and the geography and income and geography and housing type criteria for residential customers.
27	PG&E	A02	P13	S4	First year annual kWh gross	S4: Hard to reach markets	Metric	First year annual and life cycle ex-ante (pre-evaluation) gas, electric, and demand (gross and net) in hard-to-reach markets	First year annual kWh gross in Hard-to-Reach Markets	Portfolio Level (PU)- All Sectors	2016	139,114,892	N/A	N/A	147,928,997	161,153,648	160,274,551	171,980,117	Baseline data align with underlying savings data reported in the 2016 Annual Report. Targets align with the movement of overall portfolio savings goals.	HTR definition adopted in D.18.05.041	PG&E does not currently collect whether a commercial customer rents their facility or if a customer's primary language is other than English. Also note that this metric includes the geography and business line criteria for commercial customers and the geography and income and geography and housing type criteria for residential customers.

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															2018 Target	2019 Target	2020 Target				
28	PG&E	A02	P13	S4	First year annual kWh net	S4: Hard to reach markets	Metric	First year annual and lifecycle ex-ante (pre-evaluation) gas, electric, and demand savings (gross and net) in hard-to-reach markets	First year annual kWh net in Hard-to-Reach Markets	Portfolio Level (PU)- All Sectors	2016	129,080,984	N/A	N/A	99,337,780	105,044,109	108,763,039	Baseline data align with underlying savings data reported in the 2016 Annual Report. Targets align with the movement of overall portfolio savings goals. PG&E will collect all required information to track HTR customers and will update the metric when this data is available. PG&E anticipates HTR metrics on savings and participation will increase once all data is available.	PG&E does not currently collect whether a commercial customer meets their facility or their primary language is other than English. As a result, this metric includes the geography and business line criteria for commercial customers and the housing type criteria for residential customers. PG&E will collect all required information to track HTR customers and will update the metric when this data is available. PG&E anticipates HTR metrics on savings and participation will increase once all data is available.		
29	PG&E	A02	P13	S4	First year annual kWh gross	S4: Hard to reach markets	Metric	First year annual and lifecycle ex-ante (pre-evaluation) gas, electric, and demand savings (gross and net) in hard-to-reach markets	First year annual kWh gross in Hard-to-Reach Markets	Portfolio Level (PU)- All Sectors	2016	1,538,151	N/A	N/A	2,136,694	2,342,603	2,459,480	Baseline data align with underlying savings data reported in the 2016 Annual Report. Targets align with the movement of overall portfolio savings goals. PG&E will collect all required information to track HTR customers and will update the metric when this data is available. PG&E anticipates HTR metrics on savings and participation will increase once all data is available.	PG&E does not currently collect whether a commercial customer meets their facility or their primary language is other than English. As a result, this metric includes the geography and business line criteria for commercial customers and the housing type criteria for residential customers. PG&E will collect all required information to track HTR customers and will update the metric when this data is available. PG&E anticipates HTR metrics on savings and participation will increase once all data is available.		
30	PG&E	A02	P13	S4	First year annual kWh net	S4: Hard to reach markets	Metric	First year annual and lifecycle ex-ante (pre-evaluation) gas, electric, and demand savings (gross and net) in hard-to-reach markets	First year annual kWh net in Hard-to-Reach Markets	Portfolio Level (PU)- All Sectors	2016	1,117,271	N/A	N/A	1,626,798	1,768,029	1,884,437	Baseline data align with underlying savings data reported in the 2016 Annual Report. Targets align with the movement of overall portfolio savings goals. PG&E will collect all required information to track HTR customers and will update the metric when this data is available. PG&E anticipates HTR metrics on savings and participation will increase once all data is available.	PG&E does not currently collect whether a commercial customer meets their facility or their primary language is other than English. As a result, this metric includes the geography and business line criteria for commercial customers and the housing type criteria for residential customers. PG&E will collect all required information to track HTR customers and will update the metric when this data is available. PG&E anticipates HTR metrics on savings and participation will increase once all data is available.		
31	PG&E	A02	P13	S4	Lifecycle ex-ante kWh gross	S4: Hard to reach markets	Metric	First year annual and lifecycle ex-ante (pre-evaluation) gas, electric, and demand savings (gross and net) in hard-to-reach markets	Lifecycle ex-ante kWh gross in Hard-to-Reach Markets	Portfolio Level (PU)- All Sectors	2016	410,278	N/A	N/A	315,364	342,480	355,017	426,549	460,337	Baseline data align with underlying savings data reported in the 2016 Annual Report. Targets align with the movement of overall portfolio savings goals. PG&E will collect all required information to track HTR customers and will update the metric when this data is available. PG&E anticipates HTR metrics on savings and participation will increase once all data is available.	PG&E does not currently collect whether a commercial customer meets their facility or their primary language is other than English. As a result, this metric includes the geography and business line criteria for commercial customers and the housing type criteria for residential customers. PG&E will collect all required information to track HTR customers and will update the metric when this data is available. PG&E anticipates HTR metrics on savings and participation will increase once all data is available.

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Index	PA	ATA Page	ATA Order	Method Code	Units of Measurement	Metric Type	Metric/Indicator	Business Plan/ATA Description	Metric	Sector	Baseline Year	Baseline Number	Baseline Num	Baseline Date	Short-Term Annual Targets (2018-2020)			Key Definitions	Proxy Explanation
															2018 Target	2019 Target	2020 Target		
32	PG&E	A02	P13	S4	Lifecycle ex-ante MW net	S4: Hard to reach markets	Metric	First year annual and lifecycle ex-ante (pre-evaluation) gas, electric, and demand savings (gross and net) in hard-to-reach markets	Lifecycle ex-ante MW net in Hard-to-Reach Markets	Portfolio Level (PU)- All Sectors	2016	278,393	N/A	N/A	208,005	226,001	236,818	IFR definition adopted in 0.18-05-041	PG&E does not currently collect whether a commercial customer meets their facility or their primary language is other than English. As a result, this metric includes the geography and business line criteria for commercial customers and the housing type criteria for residential customers. PG&E will collect all required information to track IFR customers and will update the metric when this data is available. PG&E anticipates IFR metrics on savings and participation will increase once all data is available.
33	PG&E	A02	P13	S4	Lifecycle ex-ante MWh gross	S4: Hard to reach markets	Metric	First year annual and lifecycle ex-ante (pre-evaluation) gas, electric, and demand savings (gross and net) in hard-to-reach markets	Lifecycle ex-ante MWh gross in Hard-to-Reach Markets	Portfolio Level (PU)- All Sectors	2016	1,648,774,581	N/A	N/A	1,315,535,420	1,442,965,377	1,434,716,805	IFR definition adopted in 0.18-05-041	PG&E does not currently collect whether a commercial customer meets their facility or their primary language is other than English. As a result, this metric includes the geography and business line criteria for commercial customers and the housing type criteria for residential customers. PG&E will collect all required information to track IFR customers and will update the metric when this data is available. PG&E anticipates IFR metrics on savings and participation will increase once all data is available.
34	PG&E	A02	P13	S4	Lifecycle ex-ante kWh net	S4: Hard to reach markets	Metric	First year annual and lifecycle ex-ante (pre-evaluation) gas, electric, and demand savings (gross and net) in hard-to-reach markets	Lifecycle ex-ante kWh net in Hard-to-Reach Markets	Portfolio Level (PU)- All Sectors	2016	1,127,239,250	N/A	N/A	888,316,778	974,157,120	964,601,273	IFR definition adopted in 0.18-05-041	PG&E does not currently collect whether a commercial customer meets their facility or their primary language is other than English. As a result, this metric includes the geography and business line criteria for commercial customers and the housing type criteria for residential customers. PG&E will collect all required information to track IFR customers and will update the metric when this data is available. PG&E anticipates IFR metrics on savings and participation will increase once all data is available.
35	PG&E	A02	P13	S4	Lifecycle ex-ante kWh net	S4: Hard to reach markets	Metric	First year annual and lifecycle ex-ante (pre-evaluation) gas, electric, and demand savings (gross and net) in hard-to-reach markets	Lifecycle ex-ante kWh net in Hard-to-Reach Markets	Portfolio Level (PU)- All Sectors	2016	15,797,658	N/A	N/A	21,929,737	24,060,147	25,266,626	IFR definition adopted in 0.18-05-041	PG&E does not currently collect whether a commercial customer meets their facility or their primary language is other than English. As a result, this metric includes the geography and business line criteria for commercial customers and the housing type criteria for residential customers. PG&E will collect all required information to track IFR customers and will update the metric when this data is available. PG&E anticipates IFR metrics on savings and participation will increase once all data is available.

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Index	PA	ATA Page	ATA Order	Method Code	Units of Measurement	Metric/Indicator	Business Plan/ATA Description	Metric	Sector	Baseline Year	Baseline Number	Baseline Date	Short-Term Annual Targets (2018-2020)			M&D Term Annual Targets (2021-2023)	Long-Term Annual Targets (2024-2025)	Methodology	Key Definitions	Proxy Explanation				
													2018 Target	2019 Target	2020 Target									
36	RGBE	A02	P13	S4	Lifecycle ex-ante Therm net	Metric	First year annual and lifecycle ex-ante Therm net in hard-to-abate electric, and demand savings (gross and net) in hard-to-abate markets	Lifecycle ex-ante Therm net in hard-to-abate markets	Portfolio Level (PU)- All Sectors	2016	10,493,141	N/A	N/A	14,713,011	16,146,991	16,922,643	21,430,636	22,526,328	Baseline data align with underlying savings data reported in the 2016 Annual Report. Targets align with the improvement of overall portfolio savings goals.	HTR definition adopted in D.18-05-041	RGBE does not currently collect whether a commercial customer rents their facility or owns it. As a result, this metric includes the geography and business line criteria for commercial customers and the housing type criteria for residential customers. RGBE will collect all required information to track HTR customers and will update the metric when this data is available. RGBE anticipates HTR metrics on savings and participation will increase once all data is available.			
37	RGBE	A02	P14	LC	PAC Levelized Cost of Energy (LCOE)	Metric	Levelized cost of energy efficiency per kWh, therm net per kWh (TIC and PAC)	PAC Levelized Cost of Energy (LCOE)	Portfolio Level (PU)- All Sectors	2016	446.16	\$ 317,466,832	801,209	\$	435.01	\$	435.01	\$	412.70	\$	401.54	Identified costs are reported by sector groupings in CE DARS PROGRAM specifications. PAC cost per kWh or per therm or per MW is (PAC Cost x Electric Benefits/Total Benefits)/Lifecycle Net Wh or (PAC Cost x Electric Benefits/Total Benefits)/Lifecycle Net Therm or (PAC Cost x Electric Benefits/Total Benefits)/Lifecycle Net MW respectively. The adopted avoided cost methodology does not provide information to provide a meaningful value for TIC or PAC Cost per kWh. Portfolio TIC and PAC includes E&A, E&A, SW E&T program costs per D.12-11-011 (p. 52), and Financing O&M Loan Pool amounts per D.09-09-047 (p. 28).	Levelized costs do not include costs and include costs per D.18-05-041.	RGBE does not currently collect whether a commercial customer rents their facility or owns it. As a result, this metric includes the geography and business line criteria for commercial customers and the housing type criteria for residential customers. RGBE will collect all required information to track HTR customers and will update the metric when this data is available. RGBE anticipates HTR metrics on savings and participation will increase once all data is available.
38	RGBE	A02	P14	LC	PAC Levelized Cost of Energy (LCOE)	Metric	Levelized cost of energy efficiency per kWh, therm net per kWh (TIC and PAC)	PAC Levelized Cost of Energy (LCOE)	Portfolio Level (PU)- All Sectors	2016	0.084	\$ 4,242,287,766	\$	0.082	\$	0.082	\$	0.078	\$	0.076	Identified costs are reported by sector groupings in CE DARS PROGRAM specifications. PAC cost per kWh or per therm or per MW is (PAC Cost x Electric Benefits/Total Benefits)/Lifecycle Net Wh or (PAC Cost x Electric Benefits/Total Benefits)/Lifecycle Net Therm or (PAC Cost x Electric Benefits/Total Benefits)/Lifecycle Net MW respectively. Portfolio TIC and PAC includes E&A, BayREN, and ACE benefits and program costs. SW E&T program costs per D.12-11-011 (p. 52), and Financing O&M Loan Pool amounts per D.09-09-047 (p. 28).	Levelized costs do not include costs and include costs per D.18-05-041.	RGBE does not currently collect whether a commercial customer rents their facility or owns it. As a result, this metric includes the geography and business line criteria for commercial customers and the housing type criteria for residential customers. RGBE will collect all required information to track HTR customers and will update the metric when this data is available. RGBE anticipates HTR metrics on savings and participation will increase once all data is available.	

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Index	PA	ATA Page	ATA Order	Method Code	Units of Measurement	Metric Type	Metric/Indicator	Business Plan At A Description	Metric	Sector	Baseline #	Baseline Number	Short Term Annual Targets (2018-2020)			Baseline Emission	Long Term Annual Targets (2021-2023)	Long Term Annual Target (2024-2025)	Methodology	Key Definitions	Proxy Explanation
													2018 Target	2019 Target	2020 Target						
39	RG&E	A02	P14	LC	PAC Levelized Cost (\$/therm)	Cost per unit	Metric	Levelized cost of energy efficiency per kWh, therm and MW (see both TRC and PAC)	TIC Levelized Cost (\$/therm)	Portfolio Level [PU]- All Sectors	2016	\$ 0.51	\$ 451,133,354	\$ 88,206,893	\$ 0.50	\$ 0.50	\$ 0.47	\$ 0.46	Levelized costs are reported by vector consistent with primary vector groupings in CEIARS PROGRAM. PAC cost per kWh or per therm or per MW is (PAC Cost x Electric Benefits)/Total Benefits/Lifecycle Net Therm or (PAC Cost x Gas Benefits)/Total Benefits/Lifecycle Net Therm or (PAC Cost x Electric Benefits)/Total Benefits/Lifecycle Net MW respectively. Portfolio TIC and PAC excludes ESA, BayerN, and MCE benefits and program costs. SW E program costs per E-12-11-015 (p. 52), and Financing O&M (see Pool amounts per D09-09-047 (p. 28)).	Levelized costs do not include codes and standards per D. 04050401.	
40	RG&E	A02	P14	LC	TIC Levelized Cost (\$/kW)	Cost per unit	Metric	Levelized cost of energy efficiency per kWh, therm and MW (see both TRC and PAC)	TIC Levelized Cost (\$/kW)	Portfolio Level [PU]- All Sectors	2016	\$ 674.19	\$ 540,167,736	\$ 801,209	\$ 657.34	\$ 657.34	\$ 623.63	\$ 606.77	Levelized costs are reported by vector consistent with primary vector groupings in CEIARS PROGRAM. TIC cost per kWh or per therm or per MW is (TIC Cost x Electric Benefits)/Total Benefits/Lifecycle Net kWh or (TIC Cost x Gas Benefits)/Total Benefits/Lifecycle Net Therm or (TIC Cost x Electric Benefits)/Total Benefits/Lifecycle Net MW. The adjusted avoided cost methodology does not provide information to provide a meaningful value for TIC or PAC Cost per kW. Portfolio TIC and PAC excludes ESA, BayerN, and MCE benefits and program costs. SW E program costs per E-12-11-015 (p. 52), and Financing O&M (see Pool amounts per D09-09-047 (p. 28)).	Levelized costs do not include codes and standards per D. 04050401.	
41	RG&E	A02	P14	LC	TIC Levelized Cost (\$/MWh)	Cost per unit	Metric	Levelized cost of energy efficiency per MWh, therm and MW (see both TRC and PAC)	TIC Levelized Cost (\$/MWh)	Portfolio Level [PU]- All Sectors	2016	\$ 0.13	\$ 540,167,736	\$ 4,248,267,766	\$ 0.12	\$ 0.12	\$ 0.12	\$ 0.11	Levelized costs are reported by vector consistent with primary vector groupings in CEIARS PROGRAM. TIC cost per MWh or per therm or per MW is (TIC Cost x Electric Benefits)/Total Benefits/Lifecycle Net MWh or (TIC Cost x Gas Benefits)/Total Benefits/Lifecycle Net Therm or (TIC Cost x Electric Benefits)/Total Benefits/Lifecycle Net kW. Portfolio TIC and PAC excludes ESA, BayerN, and MCE benefits and program costs. SW E program costs per E-12-11-015 (p. 52), and Financing O&M (see Pool amounts per D09-09-047 (p. 28)).	Levelized costs do not include codes and standards per D. 04050401.	

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Index	ATA Page	ATA Order	Method Code	Units of Measurement	Metric Type	Metric/Indicator	Business Plan/ATA Description	Metric	Sector	Baseline #	Baseline #	Baseline #	Short-Term Annual Targets (2018-2020)			Baseline Diagram	M&D Term Annual Targets (2021-2023)	Long-Term Annual Target (2024-2025)	Methodology	Key Definitions	Privacy Explanation
													2018 Target	2019 Target	2020 Target						
50	PG&E A02	RSF1	S1	Lifecycle ex-ante kWh net	S1: Energy Savings	Metric	First year annual and lifecycle ex-ante (pre-evaluation) gas, electric, and demand savings (gross and net) for Single Family Customers	Lifecycle ex-ante kWh net	Residential (RES)	131,010	N/A	N/A	150,000	160,000	156,813	168,110	175,249	2016 achievements align with savings reported in 2016 Annual Report. PG&E estimated lifecycle savings targets based on 2016 achievements (baseline) and first year savings target.	Single family savings are based on dwelling type, and includes 83% of the savings from Residential Energy Advisor reports sent to single-family customers.		
51	PG&E A02	RSF1	S1	Lifecycle ex-ante kWh gross	S1: Energy Savings	Metric	First year annual and lifecycle ex-ante (pre-evaluation) gas, electric, and demand savings (gross and net) for Single Family Customers	Lifecycle ex-ante kWh gross	Residential (RES)	412,262,972	N/A	N/A	584,216,674	570,830,760	570,830,760	646,377,600	713,693,563	2016 achievements align with savings reported in 2016 Annual Report. PG&E estimated lifecycle savings targets based on 2016 achievements (baseline) and first year savings target.	Single family savings are based on dwelling type, and includes 83% of the savings from Residential Energy Advisor reports sent to single-family customers.		
52	PG&E A02	RSF1	S1	Lifecycle ex-ante kWh net	S1: Energy Savings	Metric	First year annual and lifecycle ex-ante (pre-evaluation) gas, electric, and demand savings (gross and net) for Single Family Customers	Lifecycle ex-ante kWh net	Residential (RES)	318,969,695	N/A	N/A	502,879,694	540,211,596	611,706,130	673,378,112	PG&E estimated lifecycle savings targets based on 2016 achievements (baseline) and first year savings target.	Single family savings are based on dwelling type, and includes 83% of the savings from Residential Energy Advisor reports sent to single-family customers.			
53	PG&E A02	RSF1	S1	Lifecycle ex-ante Therms gross	S1: Energy Savings	Metric	First year annual and lifecycle ex-ante (pre-evaluation) gas, electric, and demand savings (gross and net) for Single Family Customers	Lifecycle ex-ante Therms gross	Residential (RES)	13,933,366	N/A	N/A	28,486,322	33,785,705	39,425,686	38,207,147	2016 achievements align with savings reported in 2016 Annual Report. PG&E estimated lifecycle savings targets based on 2016 achievements (baseline) and first year savings target.	Single family savings are based on dwelling type, and includes 83% of the savings from Residential Energy Advisor reports sent to single-family customers.			
54	PG&E A02	RSF1	S1	Lifecycle ex-ante kWh net	S1: Energy Savings	Metric	First year annual and lifecycle ex-ante (pre-evaluation) gas, electric, and demand savings (gross and net) for Single Family Customers	Lifecycle ex-ante Therms net	Residential (RES)	10,744,737	N/A	N/A	33,500,911	36,009,034	36,009,034	36,703,650	2016 achievements align with savings reported in 2016 Annual Report. PG&E estimated lifecycle savings targets based on 2016 achievements (baseline) and first year savings target.	Single family savings are based on dwelling type, and includes 83% of the savings from Residential Energy Advisor reports sent to single-family customers.			
55	PG&E A03	RSF2	G	MT CO ₂ e/eq	GHG	Metric	CO ₂ e Net kWh savings reported on an annual basis	CO ₂ e equivalents of net annual kWh savings	Residential (RES)	66,498	N/A	N/A	92,912	101,423	110,330	Calculated using CTT, and reported in the MF segment by dwelling type.	2016 achievements align with savings reported in 2016 Annual Report. PG&E estimated lifecycle savings targets based on 2016 achievements (baseline) and first year savings target.	Single family savings are based on dwelling type, and includes 83% of the savings from Residential Energy Advisor reports sent to single-family customers.			
56	PG&E A03	RSF3	DL0	Lifecycle-Net kW	D1: Depth of interventions: Per downstream participant	Metric	Average savings per kWh in both opt-in and opt-out programs (broken down by downstream, midstream and upstream, as feasible)	Average lifecycle ex-ante kWh net savings per participant - Opt-In - Downstream	Residential (RES)	1.53	106.10	69,498	1.59	1.62	1.66	1.72	Numerator: Total downstream savings claimed Denominator: Total number of downstream participants (unique premise and account IDs)	2016 achievements align with savings reported in 2016 Annual Report. PG&E estimated lifecycle savings targets based on 2016 achievements (baseline) and first year savings target.	Single family savings are based on dwelling type, and includes 83% of the savings from Residential Energy Advisor reports sent to single-family customers.		
57	PG&E A03	RSF3	DL0	Lifecycle-Net kWh	D1: Depth of interventions: Per downstream participant	Metric	Average savings per kWh in both opt-in and opt-out programs (broken down by downstream, midstream and upstream, as feasible)	Average lifecycle ex-ante kWh net savings per participant - Opt-In - Downstream	Residential (RES)	3005	208338,135	69,498	3112	3176	3266	3381	Numerator: Total downstream savings claimed Denominator: Total number of downstream participants (unique premise and account IDs)	2016 achievements align with savings reported in 2016 Annual Report. PG&E estimated lifecycle savings targets based on 2016 achievements (baseline) and first year savings target.	Single family savings are based on dwelling type, and includes 83% of the savings from Residential Energy Advisor reports sent to single-family customers.		
58	PG&E A03	RSF3	DL0	Lifecycle-Net Therms	D1: Depth of interventions: Per downstream participant	Metric	Average savings per kWh in both opt-in and opt-out programs (broken down by downstream, midstream and upstream, as feasible)	Average lifecycle ex-ante Therms net savings per participant - Opt-In - Downstream	Residential (RES)	106	7389,257	69,498	111	112	116	120	Numerator: Total downstream savings claimed Denominator: Total number of downstream participants (unique premise and account IDs)	2016 achievements align with savings reported in 2016 Annual Report. PG&E estimated lifecycle savings targets based on 2016 achievements (baseline) and first year savings target.	Single family savings are based on dwelling type, and includes 83% of the savings from Residential Energy Advisor reports sent to single-family customers.		

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Index	ATA Page	ATA Order	Method Code	Units of Measurement	Metric Type	Metric/Indicator	Business Plan/ATA Description	Metric	Sector	Baseline #	Baseline #/Year	Short Term Annual Targets (2018-2020)			Baseline Denom	Long Term Annual Targets (2021-2023)	Methodology	Key Definitions	Proxy Explanation
												2018 Target	2019 Target	2020 Target					
59	PG&E A03	RSF3	D1-M	Lifecycle-Net kW	D1: Depth of interventions: Per midstream participant	Metric	Average lifecycle-ex-ante MW net savings (broken down by downstream, midstream and upstream, as feasible)	Residential (RSF)	2016	N/A	N/A	N/A	N/A	69,100	N/A	Midstream methodology - NOT FASBLE** Numerator: Total midstream savings claimed (not available) number of midstream participants	Since it is currently unclear how to define midstream "participants," PG&E and ED agreed to report only the numerator for this metric in the compliance filing.		
60	PG&E A03	RSF3	D1-M	Lifecycle-Net kW	D1: Depth of interventions: Per midstream participant	Metric	Average lifecycle-ex-ante MW net savings (broken down by downstream, midstream and upstream, as feasible)	Residential (RSF)	2016	N/A	N/A	N/A	N/A	708,89,960	N/A	Midstream methodology - NOT FASBLE** Numerator: Total midstream savings claimed (not available) number of midstream participants	Since it is currently unclear how to define midstream "participants," PG&E and ED agreed to report only the numerator for this metric in the compliance filing.		
61	PG&E A03	RSF3	D1-M	Lifecycle-Net Therm	D1: Depth of interventions: Per opt-out participant	Metric	Average savings per participant in both opt-in and opt-out programs (broken down by downstream, midstream and upstream, as feasible)	Residential (RSF)	2016	N/A	N/A	N/A	N/A	2,325,660	N/A	Midstream methodology - NOT FASBLE** Numerator: Total midstream savings claimed (not available) number of midstream participants	Since it is currently unclear how to define midstream "participants," PG&E and ED agreed to report only the numerator for this metric in the compliance filing.		
62	PG&E A03	RSF3	D1-O	Lifecycle-Net kW	D1: Depth of interventions: Per opt-out participant	Metric	Average lifecycle-ex-ante MW net savings (broken down by downstream, midstream and upstream, as feasible)	Residential (RSF)	2016	0.020	0.021	0.021	0.021	30,000	0.023	Numerator: net lifecycle savings from Home Energy Reports Denominator: total number of Home Energy Reports	Currently, the only opt-out program is the Home Energy Report using pool comparisons. 2) Per ED: "Energy savings" = lifecycle NET savings.		
63	PG&E A03	RSF3	D1-O	Lifecycle-Net kWh	D1: Depth of interventions: Per opt-out participant	Metric	Average lifecycle-ex-ante MW net savings (broken down by downstream, midstream and upstream, as feasible)	Residential (RSF)	2016	89	92	94	94	13,929,000	100	Numerator: net lifecycle savings from Home Energy Reports Denominator: total number of Home Energy Reports	Currently, the only opt-out program is the Home Energy Report using pool comparisons. 2) Per ED: "Energy savings" = lifecycle NET savings.		
64	PG&E A03	RSF3	D1-O	Lifecycle-Net Therm	D1: Depth of interventions: Per opt-out participant	Metric	Average lifecycle-ex-ante MW net savings (broken down by downstream, midstream and upstream, as feasible)	Residential (RSF)	2016	2.7	2.8	2.9	2.9	4,059,000	3.0	Numerator: net lifecycle savings from Home Energy Reports Denominator: total number of Home Energy Reports	Currently, the only opt-out program is the Home Energy Report using pool comparisons. 2) Per ED: "Energy savings" = lifecycle NET savings.		
65	PG&E A03	RSF3	D1-U	Lifecycle-Net kW	D1: Depth of interventions: Per upstream participant	Metric	Average lifecycle-ex-ante MW net savings (broken down by downstream, midstream and upstream, as feasible)	Residential (RSF)	2016	N/A	N/A	N/A	N/A	1,316	N/A	Upstream methodology - NOT FASBLE** Numerator: Total upstream savings claimed (not available) number or sector of upstream participants	Since it is unclear how to define upstream "participants," PG&E and ED agreed to report only the numerator for this metric in the compliance filing.		
66	PG&E A03	RSF3	D1-U	Lifecycle-Net kWh	D1: Depth of interventions: Per upstream participant	Metric	Average lifecycle-ex-ante MW net savings (broken down by downstream, midstream and upstream, as feasible)	Residential (RSF)	2016	N/A	N/A	N/A	N/A	896,980	N/A	Upstream methodology - NOT FASBLE** Numerator: Total upstream savings claimed (not available) number or sector of upstream participants	Since it is unclear how to define upstream "participants," PG&E and ED agreed to report only the numerator for this metric in the compliance filing.		
67	PG&E A03	RSF3	D1-U	Lifecycle-Net Therm	D1: Depth of interventions: Per upstream participant	Metric	Average lifecycle-ex-ante MW net savings (broken down by downstream, midstream and upstream, as feasible)	Residential (RSF)	2016	N/A	N/A	N/A	N/A	124,833	N/A	Upstream methodology - NOT FASBLE** Numerator: Total upstream savings claimed (not available) number or sector of upstream participants	Since it is unclear how to define upstream "participants," PG&E and ED agreed to report only the numerator for this metric in the compliance filing.		
68	PG&E A03	RSF4	P1	Percent of eligible participation	P1: Penetration of eligible programs in the eligible population	Metric	Percent of participation relative to eligible population	Residential (RSF)	2016	1.6%	2.3%	2.3%	2.3%	69,408	3.1%	Numerator: Number of downstream participants (unique account and premise ID) Denominator: total number of unique downstream participants	The participants' is defined as the first instance of participation.		

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Index	PA Page	ATA Order	Method Code	Units of Measurement	Metric Type	Metric/Indicator	Business Plan/ATA Description	Metric	Sector	Baseline #	Baseline Number	Baseline Year	Short-Term Annual Targets (2018-2020)			Baseline Demand	Key Definitions	Primary Explanation
													2018 Target	2019 Target	2020 Target			
69	RSBE A03	RS14	P3	Percent	Penetration of energy efficiency programs in the eligible market/DAC	Metric	Percent of participation in disadvantaged communities	Percent of participation in disadvantaged communities	Residential (RSF)	16,236	3.0%	2016	3.02%	3.02%	548,952	3.3%	3.3%	3.3%
70	RSBE A03	RS14	P4	Percent	Penetration of energy efficiency programs in the eligible market	Metric	Percent of participation by customers defined as "hard-to-serve"	Percent of participation by customers defined as "hard-to-serve"	Residential (RSF)	14,590	2.4%	2016	2.5%	2.5%	604,424	2.7%	2.7%	2.7%
71	RSBE A03	RS15	LC	PAC Levelized Cost (\$/kW)	Cost per unit saved	Metric	Levelized cost of energy efficiency per kWh, therm and MW (use both TRC and PAC)	PAC Levelized Cost (\$/kW)	Residential (RSF)	441.92	441.92	2016	419.88	419.88	131,010	376.63	376.63	376.63
72	RSBE A03	RS15	LC	PAC Levelized Cost (\$/kW)	Cost per unit saved	Metric	Levelized cost of energy efficiency per kWh, therm and MW (use both TRC and PAC)	PAC Levelized Cost (\$/kW)	Residential (RSF)	0.18	0.18	2016	0.17	0.17	338,969,695	0.16	0.16	0.16
73	RSBE A03	RS15	LC	PAC Levelized Cost (\$/therm)	Cost per unit saved	Metric	Levelized cost of energy efficiency per kWh, therm and MW (use both TRC and PAC)	PAC Levelized Cost (\$/therm)	Residential (RSF)	1.03	1.03	2016	0.98	0.98	10,740,757	0.92	0.92	0.92
74	RSBE A03	RS15	LC	TRC Levelized Cost (\$/kW)	Cost per unit saved	Metric	Levelized cost of energy efficiency per kWh, therm and MW (use both TRC and PAC)	TRC Levelized Cost (\$/kW)	Residential (RSF)	690.14	690.14	2016	627.13	627.13	131,010	561.12	561.12	561.12
75	RSBE A03	RS15	LC	TRC Levelized Cost (\$/kW)	Cost per unit saved	Metric	Levelized cost of energy efficiency per kWh, therm and MW (use both TRC and PAC)	TRC Levelized Cost (\$/kW)	Residential (RSF)	0.27	0.27	2016	0.26	0.26	338,969,695	0.24	0.24	0.24

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Index	EPA ID	ATA Order	ATA Page	Method Code	Units of Measurement	Metric Type	Metric/Indicator	Business Plan/ATA Description	Metric	Sector	Baseline #	Baseline #	Baseline #	Short-Term Annual Targets (2018-2020)			Long-Term Annual Targets (2021-2023)	Long-Term Annual Target (2024-2025)	Methodology	Key Definitions	Proxy Explanation
														2018 Target	2019 Target	2020 Target					
76	PG&E A03	RS15	EC	TTC Levelized Cost (\$/Therm)	Cost per unit saved	Energy Intensity per SF household	Metric	Levelized cost of energy efficiency per kWh, therm or gallon of gas (with TTC and PAC).	TTC Levelized Cost (\$/Therm)	Residential (RS)	2016 \$ 1.13	2016 \$ 1.46	2016 \$ 1.46	2018 \$ 1.46	2019 \$ 1.46	2020 \$ 1.46	1.30	TTC cost per kWh or per therm or per gallon of gas is calculated by dividing Total Levelized Cost by the amount of energy saved. The amount of energy saved is calculated by multiplying the amount of energy saved by the amount of energy saved. The amount of energy saved is calculated by multiplying the amount of energy saved by the amount of energy saved.	Levelized costs are reported by sector consistent with primary sector groupings in CEI's PROGRAM specifications.		
77	PG&E A03	RS16	E11	Btu	Energy Intensity per SF household	Indicator	Average energy per household (pre-evaluation) for electric, gas, and water metered accounts.	Average electric and gas usage per household	Residential (RS)	N/A - Indicator	N/A - Indicator	N/A - Indicator	N/A - Indicator	N/A - Indicator	N/A - Indicator	N/A - Indicator	N/A - Indicator	PG&E electric and gas usage from account and premises IDs in SF segment	Household refers to a unique account and a premise ID in SF segment		
78	PG&E A03	RMF1	S1-U	First year annual kWh gross	S1: Energy Savings	Metric	First year annual and lifecycle electric, gas, and water metered accounts (pre-evaluation) for multifamily customers.	First year annual kWh gross - in Unit	Residential Multi-Family (RMF)	2016	2016 7,949	2016 7,949	2018 8,700	2019 8,700	2020 8,700	10,153	11,034	Baseline savings to 2016 Annual Report 1. Targets are aligned with CUPC adopted goals in D.17-09-025 and the 2018 Potential and Goal Study.	Multi-family designation based on dwelling type in PG&E database and refers to any building or property with at least two residential housing units. Multi-family savings includes 17% of the savings from Residential Energy Advisor based on the portion of Home Energy Reports sent to multi-family customers.		
79	PG&E A03	RMF1	S1-U	First year annual kWh net	S1: Energy Savings	Metric	First year annual and lifecycle electric, gas, and water metered accounts (pre-evaluation) for multifamily customers.	First year annual kWh net - in Unit	Residential Multi-Family (RMF)	2016	2016 7,486	2016 7,486	2018 7,697	2019 7,697	2020 7,697	9,070	9,887	Baseline savings to 2016 Annual Report 1. Targets are aligned with CUPC adopted goals in D.17-09-025 and the 2018 Potential and Goal Study.	Multi-family designation based on dwelling type in PG&E database and refers to any building or property with at least two residential housing units. Multi-family savings includes 17% of the savings from Residential Energy Advisor based on the portion of Home Energy Reports sent to multi-family customers.		
80	PG&E A03	RMF1	S1-U	First year annual kWh gross	S1: Energy Savings	Metric	First year annual and lifecycle electric, gas, and water metered accounts (pre-evaluation) for multifamily customers.	First year annual kWh gross - in Unit	Residential Multi-Family (RMF)	2016	2016 21,176,051	2016 21,176,051	2018 38,338,163	2019 38,338,163	2020 38,338,163	44,810,408	50,095,694	Baseline savings to 2016 Annual Report 1. Targets are aligned with CUPC adopted goals in D.17-09-025 and the 2018 Potential and Goal Study.	Multi-family designation based on dwelling type in PG&E database and refers to any building or property with at least two residential housing units. Multi-family savings includes 17% of the savings from Residential Energy Advisor based on the portion of Home Energy Reports sent to multi-family customers.		
81	PG&E A03	RMF1	S1-U	First year annual kWh net	S1: Energy Savings	Metric	First year annual and lifecycle electric, gas, and water metered accounts (pre-evaluation) for multifamily customers.	First year annual kWh net - in Unit	Residential Multi-Family (RMF)	2016	2016 28,722,283	2016 28,722,283	2018 34,537,274	2019 34,537,274	2020 34,537,274	40,044,569	44,301,832	Baseline savings to 2016 Annual Report 1. Targets are aligned with CUPC adopted goals in D.17-09-025 and the 2018 Potential and Goal Study.	Multi-family designation based on dwelling type in PG&E database and refers to any building or property with at least two residential housing units. Multi-family savings includes 17% of the savings from Residential Energy Advisor based on the portion of Home Energy Reports sent to multi-family customers.		
82	PG&E A03	RMF1	S1-U	First year annual kWh gross	S1: Energy Savings	Metric	First year annual and lifecycle electric, gas, and water metered accounts (pre-evaluation) for multifamily customers.	First year annual kWh gross - in Unit	Residential Multi-Family (RMF)	2016	2016 86,577	2016 86,577	2018 1,789,930	2019 1,789,930	2020 1,789,930	2,752,920	3,588,837	Baseline savings to 2016 Annual Report 1. Targets are aligned with CUPC adopted goals in D.17-09-025 and the 2018 Potential and Goal Study.	Multi-family designation based on dwelling type in PG&E database and refers to any building or property with at least two residential housing units. Multi-family savings includes 17% of the savings from Residential Energy Advisor based on the portion of Home Energy Reports sent to multi-family customers.		

Attachment 1: Metrics Compliance Filing

Index	PA Page	ATA Order	Method Code	Units of Measurement	Metric Type	Metric Indicator	Business Plan/ATA Description	Metric	Sector	Baseline #	Baseline #/Year	Short-Term Annual Targets (2018-2020)			Baseline Datum	Key Definitions	Methodology	Proxy Explanation	
												2018 Target	2019 Target	2020 Target					
83	PG&E A03	RMF1	S1-U	First year annual Therm net	S1: Energy Savings	Metric	First year annual and lifecycle ex-ante savings (gross and net) for multifamily customers (in-unit, common area, and master metered accounts)	Therm net - in Unit	Residential Sector - Multi-Family (RMF)	N/A	862,779	2016	N/A	1,508,949	1,897,754	2,365,433	Multi-family designation based on dwelling type in PG&E database and refers to any building or property with at least two residential housing units. Multi-family savings include 17% of the savings from Residential Energy Advisor based on the portion of Home Energy Reports sent to multi-family customers.	Baseline savings list to 2016 Annual Report 7. Targets are aligned with CPUC adopted goals in D. J. 09-025 and the 2018 Potential and Goals Study.	
84	PG&E A03	RMF1	S1-U	Lifecycle ex-ante kWh gross	S1: Energy Savings	Metric	First year annual and lifecycle ex-ante savings (gross and net) for multifamily customers (in-unit, common area, and master metered accounts)	Lifecycle ex-ante kWh gross - in Unit	Residential Sector - Multi-Family (RMF)	N/A	23,028	2016	N/A	25,824	29,452	32,007	Multi-family designation based on dwelling type in PG&E database and refers to any building or property with at least two residential housing units. Multi-family savings include 17% of the savings from Residential Energy Advisor based on the portion of Home Energy Reports sent to multi-family customers.	All baseline savings list to 2016 Annual Report 7. Targets are aligned with CPUC adopted goals in D. J. 09-025 and the 2018 Potential and Goals Study.	
85	PG&E A03	RMF1	S1-U	Lifecycle ex-ante kWh net	S1: Energy Savings	Metric	First year annual and lifecycle ex-ante savings (gross and net) for multifamily customers (in-unit, common area, and master metered accounts)	Lifecycle ex-ante kWh net - in Unit	Residential Sector - Multi-Family (RMF)	N/A	18,653	2016	N/A	24,519	27,737	30,143	Multi-family designation based on dwelling type in PG&E database and refers to any building or property with at least two residential housing units. Multi-family savings include 17% of the savings from Residential Energy Advisor based on the portion of Home Energy Reports sent to multi-family customers.	All baseline savings list to 2016 Annual Report 7. Targets are aligned with CPUC adopted goals in D. J. 09-025 and the 2018 Potential and Goals Study.	
86	PG&E A03	RMF1	S1-U	Lifecycle ex-ante kWh gross	S1: Energy Savings	Metric	First year annual and lifecycle ex-ante savings (gross and net) for multifamily customers (in-unit, common area, and master metered accounts)	Lifecycle ex-ante kWh gross - in Unit	Residential Sector - Multi-Family (RMF)	N/A	55,045,983	2016	N/A	74,897,917	84,535,710	94,506,505	Multi-family designation based on dwelling type in PG&E database and refers to any building or property with at least two residential housing units. Multi-family savings include 17% of the savings from Residential Energy Advisor based on the portion of Home Energy Reports sent to multi-family customers.	All baseline savings list to 2016 Annual Report 7. Targets are aligned with CPUC adopted goals in D. J. 09-025 and the 2018 Potential and Goals Study.	
87	PG&E A03	RMF1	S1-U	Lifecycle ex-ante kWh net	S1: Energy Savings	Metric	First year annual and lifecycle ex-ante savings (gross and net) for multifamily customers (in-unit, common area, and master metered accounts)	Lifecycle ex-ante kWh net - in Unit	Residential Sector - Multi-Family (RMF)	N/A	46,310,124	2016	N/A	71,196,197	83,215,532	93,000,615	Multi-family designation based on dwelling type in PG&E database and refers to any building or property with at least two residential housing units. Multi-family savings include 17% of the savings from Residential Energy Advisor based on the portion of Home Energy Reports sent to multi-family customers.	All baseline savings list to 2016 Annual Report 7. Targets are aligned with CPUC adopted goals in D. J. 09-025 and the 2018 Potential and Goals Study.	
88	PG&E A03	RMF1	S1-U	Lifecycle ex-ante Therm gross	S1: Energy Savings	Metric	First year annual and lifecycle ex-ante savings (gross and net) for multifamily customers (in-unit, common area, and master metered accounts)	Lifecycle ex-ante Therm gross - in Unit	Residential Sector - Multi-Family (RMF)	N/A	2,255,522	2016	N/A	4,807,488	7,347,195	9,578,152	Multi-family designation based on dwelling type in PG&E database and refers to any building or property with at least two residential housing units. Multi-family savings include 17% of the savings from Residential Energy Advisor based on the portion of Home Energy Reports sent to multi-family customers.	All baseline savings list to 2016 Annual Report 7. Targets are aligned with CPUC adopted goals in D. J. 09-025 and the 2018 Potential and Goals Study.	
89	PG&E A03	RMF1	S1-U	Lifecycle ex-ante Therm net	S1: Energy Savings	Metric	First year annual and lifecycle ex-ante savings (gross and net) for multifamily customers (in-unit, common area, and master metered accounts)	Lifecycle ex-ante Therm net - in Unit	Residential Sector - Multi-Family (RMF)	N/A	1,815,288	2016	N/A	4,796,283	7,402,130	9,648,253	Multi-family designation based on dwelling type in PG&E database and refers to any building or property with at least two residential housing units. Multi-family savings include 17% of the savings from Residential Energy Advisor based on the portion of Home Energy Reports sent to multi-family customers.	All baseline savings list to 2016 Annual Report 7. Targets are aligned with CPUC adopted goals in D. J. 09-025 and the 2018 Potential and Goals Study.	

Attachment 1: Metrics Compliance Filing

Index	PA Page	ATA Order	ATA Order	Method Code	Units of Measurement	Metric Type	Metric/Indicator	Business Plan/ATA Description	Metric	Sector	Baseline Year	Baseline Number	Baseline	Short-Term Annual Targets (2018-2020)			M&G Term Annual Targets (2021-2023)	Long-Term Annual Target (2024-2025)	Methodology	Key Definitions	Priority Explanation
														2018 Target	2019 Target	2020 Target					
90	PG&E A03	RMF1	S1-MM	S1-MM	First year annual gross	S1: Energy Savings	Metric	First year annual and lifecycle savings (pre-evaluation) gas, electric, and demand for multi-family customers (in-unit, common area, and master metered accounts)	First year annual MW Multi-Family Metered	Residential Sector - Multi-Family (RMF)	2016	N/A	N/A	N/A	N/A	N/A	PG&E is unable to report this metric at this time because PG&E has not historically required program data to be tracked and reported at this level of detail, and was unable to identify a proxy for this filing.		PG&E consulted the American Community Survey and the 2010-2012 PG&E and SCE Multi-Family Energy Efficiency Relative Performance Index (RMF) and Market Characterization Study as an attempt to identify ways to split the multi-family savings data by in-unit, common area, and master metered. However, neither of these sources provided the data required to provide a valid estimate. Rather than providing an arbitrary split in this filing, PG&E will collect the required information in as accurate a manner as possible to support reliable and insightful metrics reporting.		
91	PG&E A03	RMF1	S1-MM	S1-MM	First year annual gross	S1: Energy Savings	Metric	First year annual and lifecycle savings (pre-evaluation) gas, electric, and demand for multi-family customers (in-unit, common area, and master metered accounts)	First year annual MW Multi-Family Metered	Residential Sector - Multi-Family (RMF)	2016	N/A	N/A	N/A	N/A	N/A	PG&E is unable to report this metric at this time because PG&E has not historically required program data to be tracked and reported at this level of detail, and was unable to identify a proxy for this filing.		PG&E consulted the American Community Survey and the 2010-2012 PG&E and SCE Multi-Family Energy Efficiency Relative Performance Index (RMF) and Market Characterization Study as an attempt to identify ways to split the multi-family savings data by in-unit, common area, and master metered. However, neither of these sources provided the data required to provide a valid estimate. Rather than providing an arbitrary split in this filing, PG&E will collect the required information in as accurate a manner as possible to support reliable and insightful metrics reporting.		

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Index	EPA ID	ATA Page	ATA Order	Method Code	Units of Measurement	Metric Type	Metric/Indicator	Business Plan/ATA Description	Metric	Sector	Baseline Year	Baseline Number	Baseline Num	Baseline Date	Short-Term Annual Targets (2018-2020)			Long-Term Annual Targets (2021-2023)	Long-Term Annual Target (2024-2025)	Methodology	Key Definitions	Priority Explanation
															2018 Target	2019 Target	2020 Target					
92	PG&E A03	RMF1	S1-MM	S1-MM	First year annual kWh gross	S1: Energy Savings	Metric	First year annual and bi-yearly savings (electric, gas, and electric, and demand savings (gross and net)) for residential customers (in-unit, common area, and master metered accounts)	First year annual kWh (gross - Master Metered)	Residential Multi-Family (RMF)	2016	N/A	N/A	N/A	N/A	N/A	N/A	PG&E is unable to report this metric at this time because PG&E has not tracked and reported at this level of detail, and was unable to identify a proxy for this filing.	PG&E consulted the American Community Survey (ACS) and the ACE Multi-Family Energy Efficiency Relate Program (MFER) Process Evaluation and Market Characterization Study in an attempt to identify a suitable multi-family savings data by in-unit, common area, and master metered. However, neither of those sources provided the data required to report this metric. Rather than providing an arbitrary split in this filing, PG&E will collect the required information as accurate a measure as possible in order to ensure that the multi-family savings data is reliable and insightful metrics reporting.	PG&E consulted the American Community Survey (ACS) and the ACE Multi-Family Energy Efficiency Relate Program (MFER) Process Evaluation and Market Characterization Study in an attempt to identify a suitable multi-family savings data by in-unit, common area, and master metered. However, neither of those sources provided the data required to report this metric. Rather than providing an arbitrary split in this filing, PG&E will collect the required information as accurate a measure as possible in order to ensure that the multi-family savings data is reliable and insightful metrics reporting.		
93	PG&E A03	RMF1	S1-MM	S1-MM	First year annual kWh net	S1: Energy Savings	Metric	First year annual and bi-yearly savings (electric, gas, and electric, and demand savings (gross and net)) for residential customers (in-unit, common area, and master metered accounts)	First year annual kWh (net - Master Metered)	Residential Multi-Family (RMF)	2016	N/A	N/A	N/A	N/A	N/A	N/A	PG&E is unable to report this metric at this time because PG&E has not tracked and reported at this level of detail, and was unable to identify a proxy for this filing.	PG&E consulted the American Community Survey (ACS) and the ACE Multi-Family Energy Efficiency Relate Program (MFER) Process Evaluation and Market Characterization Study in an attempt to identify a suitable multi-family savings data by in-unit, common area, and master metered. However, neither of those sources provided the data required to report this metric. Rather than providing an arbitrary split in this filing, PG&E will collect the required information as accurate a measure as possible in order to ensure that the multi-family savings data is reliable and insightful metrics reporting.	PG&E consulted the American Community Survey (ACS) and the ACE Multi-Family Energy Efficiency Relate Program (MFER) Process Evaluation and Market Characterization Study in an attempt to identify a suitable multi-family savings data by in-unit, common area, and master metered. However, neither of those sources provided the data required to report this metric. Rather than providing an arbitrary split in this filing, PG&E will collect the required information as accurate a measure as possible in order to ensure that the multi-family savings data is reliable and insightful metrics reporting.		

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Index	PA Page	ATA Order	ATA Page	Method Code	Units of Measurement	Metric Type	Metric/Indicator	Business Plan/AT A Description	Metric	Sector	Baseline Year	Baseline Number	Baseline Date	Short-Term Annual Targets (2018-2020)			Long-Term Annual Target (2024-2025)	Methodology	Key Definitions	Priority Explanation
														2018 Target	2019 Target	2020 Target				
94	PG&E A03	RMF1	S1-MMM		First year annual gross	S1: Energy Savings	Metric	First year annual and lifecycle savings (pre-evaluation) gas, electric, and demand for multifamily customers (in-unit, common area, and master metered accounts)	First year annual Therms net - Master Metered	Residential Sector - Multifamily (RMF)	2016	N/A	N/A	N/A	N/A	N/A	PG&E is unable to report this metric at this time because PG&E has not historically required program data to be tracked and reported at this level of detail, and was unable to identify a proxy for this filing.	PG&E consulted the American Community Survey and the 2010-2012 PG&E and SCE Multifamily Energy Efficiency Relative Performance Index (RMF) and Market Characterization Study as an attempt to identify ways to split the multi-family savings data by in-unit, common area, and master metered. However, neither of these sources provided the data required to provide a valid estimate. Rather than providing an arbitrary split in this filing, PG&E will collect the required information in as accurate a manner as possible to support reliable and insightful metrics reporting.		
95	PG&E A03	RMF1	S1-MMM		First year annual Therms net	S1: Energy Savings	Metric	First year annual and lifecycle savings (pre-evaluation) gas, electric, and demand for multifamily customers (in-unit, common area, and master metered accounts)	First year annual Therms net - Master Metered	Residential Sector - Multifamily (RMF)	2016	N/A	N/A	N/A	N/A	N/A	N/A	PG&E is unable to report this metric at this time because PG&E has not historically required program data to be tracked and reported at this level of detail, and was unable to identify a proxy for this filing.	PG&E consulted the American Community Survey and the 2010-2012 PG&E and SCE Multifamily Energy Efficiency Relative Performance Index (RMF) and Market Characterization Study as an attempt to identify ways to split the multi-family savings data by in-unit, common area, and master metered. However, neither of these sources provided the data required to provide a valid estimate. Rather than providing an arbitrary split in this filing, PG&E will collect the required information in as accurate a manner as possible to support reliable and insightful metrics reporting.	

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Index	PA Page	ATA Order	Method Code	Units of Measurement	Metric Type	Metric/Indicator	Business Plan/ATA Description	Metric	Sector	Baseline Year	Baseline Number	Baseline Date	Short-Term Annual Targets (2018-2020)			Long-Term Annual Target (2024-2025)	Methodology	Key Definitions	Priority Explanation
													2018 Target	2019 Target	2020 Target				
96	PG&E A03	RMF1	S1-MM	Lifecycle savings MW gross	S1: Energy Savings	Metric	First year annual and lifecycle savings (pre-evaluation) gas, electric, and demand for multi-family customers (in-unit, common area, and master metered accounts)	Lifecycle savings MW Multi-Family Metered	Residential Sector - Multi-Family (RMF)	2016	N/A	N/A	N/A	N/A	N/A	PG&E is unable to report this metric at this time because PG&E has not historically required program data to be tracked and reported at this level of detail, and was unable to identify a proxy for this filing.	PG&E consulted the American Community Survey and the 2010-2012 PG&E and SCE Multi-Family Energy Efficiency Relative Performance Study (MFEERS) and Market Characterization Study as an attempt to identify ways to split the multi-family savings data by in-unit, common area, and master metered. However, neither of these sources provided the data required to provide a valid estimate. Rather than providing an arbitrary split in this filing, PG&E will collect the required information in as accurate a manner as possible to support reliable and insightful metrics reporting.	PG&E consulted the American Community Survey and the 2010-2012 PG&E and SCE Multi-Family Energy Efficiency Relative Performance Study (MFEERS) and Market Characterization Study as an attempt to identify ways to split the multi-family savings data by in-unit, common area, and master metered. However, neither of these sources provided the data required to provide a valid estimate. Rather than providing an arbitrary split in this filing, PG&E will collect the required information in as accurate a manner as possible to support reliable and insightful metrics reporting.	
97	PG&E A03	RMF1	S1-MM	Lifecycle savings MW net	S1: Energy Savings	Metric	First year annual and lifecycle savings (pre-evaluation) gas, electric, and demand for multi-family customers (in-unit, common area, and master metered accounts)	Lifecycle savings MW Net - Master Metered (RMF)	Residential Sector - Multi-Family (RMF)	2016	N/A	N/A	N/A	N/A	N/A	PG&E is unable to report this metric at this time because PG&E has not historically required program data to be tracked and reported at this level of detail, and was unable to identify a proxy for this filing.	PG&E consulted the American Community Survey and the 2010-2012 PG&E and SCE Multi-Family Energy Efficiency Relative Performance Study (MFEERS) and Market Characterization Study as an attempt to identify ways to split the multi-family savings data by in-unit, common area, and master metered. However, neither of these sources provided the data required to provide a valid estimate. Rather than providing an arbitrary split in this filing, PG&E will collect the required information in as accurate a manner as possible to support reliable and insightful metrics reporting.	PG&E consulted the American Community Survey and the 2010-2012 PG&E and SCE Multi-Family Energy Efficiency Relative Performance Study (MFEERS) and Market Characterization Study as an attempt to identify ways to split the multi-family savings data by in-unit, common area, and master metered. However, neither of these sources provided the data required to provide a valid estimate. Rather than providing an arbitrary split in this filing, PG&E will collect the required information in as accurate a manner as possible to support reliable and insightful metrics reporting.	

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															2018 Target	2019 Target	2020 Target		
98	PG&E A03	RMF1	S1-MM	S1-MM	Lifecycle ex-ante kWh/gross	S1: Energy Savings	Metric	First year annual and lifecycle ex-ante electric, gas, and electric, and demand savings (gross and net) for all customers (in-unit, common area, and master metered accounts)	(Lifecycle ex-ante kWh/gross - Master Metered)	Residential Multi-Family (RMF)	2016	N/A	N/A	N/A	N/A	N/A	PG&E consulted the American Community Survey and the 2016-2017 SCE Multifamily Energy Efficiency Relate Program (MFER) Process Evaluation and Market Characterization Study in an attempt to identify ways to split the multi-family savings data by in-unit, common area, and master-metered. However, neither of these sources provided the data needed to do so. Rather than providing an arbitrary split in this filing, PG&E will collect the required information as accurate as possible in order to provide as complete and thoughtful metrics reporting.	PG&E consulted the American Community Survey and the 2016-2017 SCE Multifamily Energy Efficiency Relate Program (MFER) Process Evaluation and Market Characterization Study in an attempt to identify ways to split the multi-family savings data by in-unit, common area, and master-metered. However, neither of these sources provided the data needed to do so. Rather than providing an arbitrary split in this filing, PG&E will collect the required information as accurate as possible in order to provide as complete and thoughtful metrics reporting.	
99	PG&E A03	RMF1	S1-MM	S1-MM	Lifecycle ex-ante kWh/net	S1: Energy Savings	Metric	First year annual and lifecycle ex-ante electric, gas, and electric, and demand savings (gross and net) for all customers (in-unit, common area, and master metered accounts)	(Lifecycle ex-ante kWh/net - Master Metered)	Residential Multi-Family (RMF)	2016	N/A	N/A	N/A	N/A	N/A	PG&E consulted the American Community Survey and the 2016-2017 SCE Multifamily Energy Efficiency Relate Program (MFER) Process Evaluation and Market Characterization Study in an attempt to identify ways to split the multi-family savings data by in-unit, common area, and master-metered. However, neither of these sources provided the data needed to do so. Rather than providing an arbitrary split in this filing, PG&E will collect the required information as accurate as possible in order to provide as complete and thoughtful metrics reporting.	PG&E consulted the American Community Survey and the 2016-2017 SCE Multifamily Energy Efficiency Relate Program (MFER) Process Evaluation and Market Characterization Study in an attempt to identify ways to split the multi-family savings data by in-unit, common area, and master-metered. However, neither of these sources provided the data needed to do so. Rather than providing an arbitrary split in this filing, PG&E will collect the required information as accurate as possible in order to provide as complete and thoughtful metrics reporting.	

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														2018 Target	2019 Target	2020 Target				
D00	PG&E A03	RMF1	S1-MM		Lifecycle ex-ante Therm net gross	S1: Energy Savings	Metric	First year annual and lifecycle ex-ante electric and demand savings (pre-evaluation) for multi-family customers (in-unit, common area, and master metered accounts)	Lifecycle ex-ante Therm net - Master Metered	Residential Sector - Master Multi-Family (RMF)	2016	N/A	N/A	N/A	N/A			PG&E consulted the American Community Survey and the 2010-2012 PG&E and SCE Multifamily Energy Efficiency Relative Performance Index (RMF) and Market Characterization Study as an attempt to identify ways to split the multi-family savings data by in-unit, common area, and master metered. However, neither of these sources provided the data required to provide a valid estimate. Rather than providing an arbitrary split in this filing, PG&E has not tracked and reported at this level of detail, and was unable to identify a proxy for this filing.	PG&E consulted the American Community Survey and the 2010-2012 PG&E and SCE Multifamily Energy Efficiency Relative Performance Index (RMF) and Market Characterization Study as an attempt to identify ways to split the multi-family savings data by in-unit, common area, and master metered. However, neither of these sources provided the data required to provide a valid estimate. Rather than providing an arbitrary split in this filing, PG&E has not tracked and reported at this level of detail, and was unable to identify a proxy for this filing.	
D01	PG&E A03	RMF1	S1-MM		Lifecycle ex-ante Therm net	S1: Energy Savings	Metric	First year annual and lifecycle ex-ante electric, and demand savings (gross and net) for multi-family customers (in-unit, common area, and master metered accounts)	Lifecycle ex-ante Therm net - Master Metered	Residential Sector - Master Multi-Family (RMF)	2016	N/A	N/A	N/A	N/A			PG&E consulted the American Community Survey and the 2010-2012 PG&E and SCE Multifamily Energy Efficiency Relative Performance Index (RMF) and Market Characterization Study as an attempt to identify ways to split the multi-family savings data by in-unit, common area, and master metered. However, neither of these sources provided the data required to provide a valid estimate. Rather than providing an arbitrary split in this filing, PG&E has not tracked and reported at this level of detail, and was unable to identify a proxy for this filing.	PG&E consulted the American Community Survey and the 2010-2012 PG&E and SCE Multifamily Energy Efficiency Relative Performance Index (RMF) and Market Characterization Study as an attempt to identify ways to split the multi-family savings data by in-unit, common area, and master metered. However, neither of these sources provided the data required to provide a valid estimate. Rather than providing an arbitrary split in this filing, PG&E has not tracked and reported at this level of detail, and was unable to identify a proxy for this filing.	

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													2018 Target	2019 Target	2020 Target				
B02	PG&E A03	RMF1	SICA	First year annual savings (gross)	S1: Energy Savings	Metric	First year annual and lifecycle savings (pre-evaluation) gas, electric, and demand for multi-family customers (in-unit, common area, and master metered accounts)	First year annual MW gross - Common Area (RMF)	Residential Sector - Multi-family (RMF)	2016	N/A	N/A	N/A	N/A	N/A	PG&E is unable to report this metric at this time because PG&E has not historically required program data to be tracked and reported at this level of detail, and was unable to identify a proxy for this filing.	PG&E consulted the American Community Survey and the 2010-2012 PG&E and SCE Multifamily Energy Efficiency Relative Performance Study (RMF) and Market Characterization Study as an attempt to identify ways to split the multi-family savings data by in-unit, common area, and master metered. However, neither of these sources provided the data required to provide a valid estimate. Rather than providing an arbitrary split in this filing, PG&E will collect the required information as accurate a manner as possible to support reliable and insightful metrics reporting.		
B03	PG&E A03	RMF1	SICA	First year annual savings (gross and net)	S1: Energy Savings	Metric	First year annual and lifecycle savings (pre-evaluation) gas, electric, and demand for multi-family customers (in-unit, common area, and master metered accounts)	First year annual MW net - Common Area (RMF)	Residential Sector - Multi-family (RMF)	2016	N/A	N/A	N/A	N/A	N/A	PG&E is unable to report this metric at this time because PG&E has not historically required program data to be tracked and reported at this level of detail, and was unable to identify a proxy for this filing.	PG&E consulted the American Community Survey and the 2010-2012 PG&E and SCE Multifamily Energy Efficiency Relative Performance Study (RMF) and Market Characterization Study as an attempt to identify ways to split the multi-family savings data by in-unit, common area, and master metered. However, neither of these sources provided the data required to provide a valid estimate. Rather than providing an arbitrary split in this filing, PG&E will collect the required information as accurate a manner as possible to support reliable and insightful metrics reporting.		

Attachment 1: Metrics Compliance Filing

Index	PA	ATA Page	ATA Order	Method Code	Units of Measurement	Metric Type	Metric/Indicator	Business Plan/ATA Description	Metric	Sector	Baseline Year	Baseline Number	Baseline Amount	Short-Term Annual Targets (2018-2020)			Long-Term Annual Target (2024-2025)	Methodology	Key Definitions	Priority Explanation
														2018 Target	2019 Target	2020 Target				
D04	PG&E	A03	RMF1	SICA	First year annual kWh gross	S1: Energy Savings	Metric	First year annual and lifecycle electric and demand savings for multifamily customers (in-unit, common area, and master metered accounts)	First year annual kWh gross - Common Area (RMF)	Residential Sector - Multifamily (RMF)	2016	N/A	N/A	N/A	N/A	N/A	PG&E is unable to report this metric at this time because PG&E has not historically required program data to be tracked and reported at this level of detail, and was unable to identify a proxy for this filing.	PG&E consulted the American Community Survey and the 2010-2012 PG&E and SCE Multifamily Energy Efficiency Relative Performance Study (RMF) and Market Characterization Study as an attempt to identify ways to split the multifamily savings data by in-unit, common area, and master metered. However, neither of these sources provided the data required to provide a valid estimate. Rather than providing an arbitrary split in this filing, PG&E will collect the required information in as accurate a manner as possible to support reliable and insightful metrics reporting.		
D05	PG&E	A03	RMF1	SICA	First year annual kWh net	S1: Energy Savings	Metric	First year annual and lifecycle electric, and demand savings (gross and net) for multifamily customers (in-unit, common area, and master metered accounts)	First year annual kWh net - Common Area (RMF)	Residential Sector - Multifamily (RMF)	2016	N/A	N/A	N/A	N/A	N/A	N/A	PG&E is unable to report this metric at this time because PG&E has not historically required program data to be tracked and reported at this level of detail, and was unable to identify a proxy for this filing.	PG&E consulted the American Community Survey and the 2010-2012 PG&E and SCE Multifamily Energy Efficiency Relative Performance Study (RMF) and Market Characterization Study as an attempt to identify ways to split the multifamily savings data by in-unit, common area, and master metered. However, neither of these sources provided the data required to provide a valid estimate. Rather than providing an arbitrary split in this filing, PG&E will collect the required information in as accurate a manner as possible to support reliable and insightful metrics reporting.	

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Index	PA Page	ATA Order	Method Code	Units of Measurement	Metric Type	Metric/Indicator	Business Plan/ATA Description	Metric	Sector	Baseline Year	Baseline Number	Baseline Domain	Short-Term Annual Targets (2018-2020)			Long-Term Annual Target (2024-2025)	Methodology	Key Definitions	Priority Explanation
													2018 Target	2019 Target	2020 Target				
B05	PG&E A03	RMF1	SICA	First year annual therm net gross	S1: Energy Savings	Metric	First year annual and lifecycle electric, gas, and demand savings for multifamily customers (in-unit, common area, and master metered accounts)	First year annual therm net - Common Area	Residential Sector - Multifamily (RMF)	2016	N/A	N/A	N/A	N/A	N/A	PG&E is unable to report this metric at this time because PG&E has not historically required program data to be tracked and reported at this level of detail, and was unable to identify a proxy for this filing.	PG&E consulted the American Community Survey and the 2010-2012 PG&E and SCE Multifamily Energy Efficiency Relative Performance Study (RPS) and Market Observation Study as an attempt to identify ways to split the multifamily savings data by in-unit, common area, and master metered. However, neither of these sources provided the data required to provide a valid estimate. Rather than providing an arbitrary split in this filing, PG&E will collect the required information as accurate a manner as possible to support reliable and insightful metrics reporting.		
B07	PG&E A03	RMF1	SICA	First year annual therm net	S1: Energy Savings	Metric	First year annual and lifecycle electric, gas, and demand savings (gross and net) for multifamily customers (in-unit, common area, and master metered accounts)	First year annual therm net - Common Area	Residential Sector - Multifamily (RMF)	2016	N/A	N/A	N/A	N/A	N/A	PG&E is unable to report this metric at this time because PG&E has not historically required program data to be tracked and reported at this level of detail, and was unable to identify a proxy for this filing.	PG&E consulted the American Community Survey and the 2010-2012 PG&E and SCE Multifamily Energy Efficiency Relative Performance Study (RPS) and Market Observation Study as an attempt to identify ways to split the multifamily savings data by in-unit, common area, and master metered. However, neither of these sources provided the data required to provide a valid estimate. Rather than providing an arbitrary split in this filing, PG&E will collect the required information as accurate a manner as possible to support reliable and insightful metrics reporting.		

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Index	PA	ATA Page	ATA Order	Method Code	Units of Measurement	Metric Type	Metric/Indicator	Business Plan/ATA Description	Metric	Sector	Baseline Year	Baseline Number	Baseline Date	Short-Term Annual Targets (2018-2020)			Long-Term Annual Target (2024-2025)	Methodology	Key Definitions	Priority Explanation
														2018 Target	2019 Target	2020 Target				
D08	PG&E	A03	RMF1	SICA	Lifecycle ex-ante MW gross	S1: Energy Savings	Metric	First year annual and lifecycle ex-ante electric and demand savings for multifamily customers (in-unit, common area, and master metered accounts)	Lifecycle ex-ante MW gross - Common Area (RMF)	Residential Sector - Multifamily (RMF)	2016	N/A	N/A	N/A	N/A	N/A	PG&E is unable to report this metric at this time because PG&E has not historically required program data to be tracked and reported at this level of detail, and was unable to identify a proxy for this filing.	PG&E consulted the American Community Survey and the 2010-2012 PG&E and SCE Multifamily Energy Efficiency Relative Performance Study (RMF) and Market Characterization Study as an attempt to identify ways to split the multifamily savings data by in-unit, common area, and master metered. However, neither of these sources provided the data required to provide a valid estimate. Rather than providing an arbitrary split in this filing, PG&E will collect the required information in as accurate a manner as possible to support reliable and insightful metrics reporting.		
D09	PG&E	A03	RMF1	SICA	Lifecycle ex-ante MW net	S1: Energy Savings	Metric	First year annual and lifecycle ex-ante electric, and demand savings (gross and net) for multifamily customers (in-unit, common area, and master metered accounts)	Lifecycle ex-ante MW net - Common Area (RMF)	Residential Sector - Multifamily (RMF)	2016	N/A	N/A	N/A	N/A	N/A	N/A	PG&E is unable to report this metric at this time because PG&E has not historically required program data to be tracked and reported at this level of detail, and was unable to identify a proxy for this filing.	PG&E consulted the American Community Survey and the 2010-2012 PG&E and SCE Multifamily Energy Efficiency Relative Performance Study (RMF) and Market Characterization Study as an attempt to identify ways to split the multifamily savings data by in-unit, common area, and master metered. However, neither of these sources provided the data required to provide a valid estimate. Rather than providing an arbitrary split in this filing, PG&E will collect the required information in as accurate a manner as possible to support reliable and insightful metrics reporting.	

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Index	PA	ATA Page	ATA Order	Method Code	Units of Measurement	Metric Type	Metric/Indicator	Business Plan/ATA Description	Metric	Sector	Baseline Year	Baseline Number	Baseline Date	Short-Term Annual Targets (2018-2020)			Long-Term Annual Target (2024-2025)	Methodology	Key Definitions	Priority Explanation
														2018 Target	2019 Target	2020 Target				
110	PG&E	A03	RMF1	SICA	Lifecycle savings with gross	S1: Energy Savings	Metric	First year annual and lifecycle savings (pre-evaluation) gas, electric, and demand for multifamily customers (in-unit, common area, and master metered accounts)	Lifecycle savings (gross and net) for multifamily customers (in-unit, common area, and master metered accounts)	Residential Sector - Multifamily (RMF)	2016	N/A	N/A	N/A	N/A	N/A	PG&E is unable to report this metric at this time because PG&E has not historically required program data to be tracked and reported at this level of detail, and was unable to identify a proxy for this filing.	PG&E consulted the American Community Survey and the 2010-2012 PG&E and SCE Multifamily Energy Efficiency Relative Performance Study and the Multifamily Market Observation Study as an attempt to identify ways to split the multifamily savings data by in-unit, common area, and master metered. However, neither of these sources provided the data required to provide a valid estimate. Rather than providing an arbitrary split in this filing, PG&E will collect the required information in as accurate a manner as possible to support reliable and insightful metrics reporting.		
111	PG&E	A03	RMF1	SICA	Lifecycle savings with gross	S1: Energy Savings	Metric	First year annual and lifecycle savings (pre-evaluation) gas, electric, and demand for multifamily customers (in-unit, common area, and master metered accounts)	Lifecycle savings (gross and net) for multifamily customers (in-unit, common area, and master metered accounts)	Residential Sector - Multifamily (RMF)	2016	N/A	N/A	N/A	N/A	N/A	PG&E is unable to report this metric at this time because PG&E has not historically required program data to be tracked and reported at this level of detail, and was unable to identify a proxy for this filing.	PG&E consulted the American Community Survey and the 2010-2012 PG&E and SCE Multifamily Energy Efficiency Relative Performance Study and the Multifamily Market Observation Study as an attempt to identify ways to split the multifamily savings data by in-unit, common area, and master metered. However, neither of these sources provided the data required to provide a valid estimate. Rather than providing an arbitrary split in this filing, PG&E will collect the required information in as accurate a manner as possible to support reliable and insightful metrics reporting.		

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Index	PA Page	ATA Order	Method Code	Units of Measurement	Metric Type	Metric/Indicator	Business Plan/ATA Description	Metric	Sector	Baseline Year	Baseline Number	Baseline Num	Baseline Domain	Short-Term Annual Targets (2018-2020)			Long-Term Annual Target (2024-2025)	Methodology	Key Definitions	Priority Explanation
														2018 Target	2019 Target	2020 Target				
112	PG&E A03	RMF1	SICA	Lifecycle ex-ante and ex-post gross	S1: Energy Savings	Metric	First year annual and lifecycle ex-ante electric and demand (pre-evaluation) gas, electric and demand (post-evaluation) for multifamily customers (in-unit, common area, and master metered accounts)	Lifecycle ex-ante and ex-post gross (in-unit, common area, and master metered accounts)	Residential Sector - Multifamily (RMF)	2016	N/A	N/A	N/A	N/A	N/A	N/A	PG&E is unable to report this metric at this time because PG&E has not historically required program data to be tracked and reported at this level of granularity. PG&E is unable to identify a proxy for this filing.	PG&E consulted the American Community Survey and the 2010-2012 PG&E and SCE Multifamily Energy Efficiency Relative to Market Characterization Study as an attempt to identify ways to split the multifamily savings data by in-unit, common area, and master metered. However, neither of these sources provided the data required to provide a valid estimate. Rather than providing an arbitrary split in the data, PG&E will report the total information as accurate as possible in order to support reliable and insightful meter as reporting.	PG&E consulted the American Community Survey and the 2010-2012 PG&E and SCE Multifamily Energy Efficiency Relative to Market Characterization Study as an attempt to identify ways to split the multifamily savings data by in-unit, common area, and master metered. However, neither of these sources provided the data required to provide a valid estimate. Rather than providing an arbitrary split in the data, PG&E will report the total information as accurate as possible in order to support reliable and insightful meter as reporting.	
113	PG&E A03	RMF1	SICA	Lifecycle ex-ante and ex-post net	S1: Energy Savings	Metric	First year annual and lifecycle ex-ante (pre-evaluation) gas, electric and demand (post-evaluation) for multifamily customers (in-unit, common area, and master metered accounts)	Lifecycle ex-ante and ex-post net (in-unit, common area, and master metered accounts)	Residential Sector - Multifamily (RMF)	2016	N/A	N/A	N/A	N/A	N/A	N/A	PG&E is unable to report this metric at this time because PG&E has not historically required program data to be tracked and reported at this level of granularity. PG&E is unable to identify a proxy for this filing.	PG&E consulted the American Community Survey and the 2010-2012 PG&E and SCE Multifamily Energy Efficiency Relative to Market Characterization Study as an attempt to identify ways to split the multifamily savings data by in-unit, common area, and master metered. However, neither of these sources provided the data required to provide a valid estimate. Rather than providing an arbitrary split in the data, PG&E will report the total information as accurate as possible in order to support reliable and insightful meter as reporting.	PG&E consulted the American Community Survey and the 2010-2012 PG&E and SCE Multifamily Energy Efficiency Relative to Market Characterization Study as an attempt to identify ways to split the multifamily savings data by in-unit, common area, and master metered. However, neither of these sources provided the data required to provide a valid estimate. Rather than providing an arbitrary split in the data, PG&E will report the total information as accurate as possible in order to support reliable and insightful meter as reporting.	
114	PG&E A03	RMF2	G	MT CO ₂ e	GHS	Metric	Greenhouse gases (MT CO ₂ e) Net kWh savings reported on an annual basis	CO ₂ e equivalents of annual kWh savings	Residential Sector - Multifamily (RMF)	2016	13,402	N/A	N/A	16,833	10,755	20,749	Includes CO ₂ but not NO _x and PM ₁₀ as these are not GHG equivalents. Savings do not include savings that relate to multi-family customers receiving programs, as this metric is focused on projects.	PG&E consulted the American Community Survey and the 2010-2012 PG&E and SCE Multifamily Energy Efficiency Relative to Market Characterization Study as an attempt to identify ways to split the multifamily savings data by in-unit, common area, and master metered. However, neither of these sources provided the data required to provide a valid estimate. Rather than providing an arbitrary split in the data, PG&E will report the total information as accurate as possible in order to support reliable and insightful meter as reporting.	PG&E consulted the American Community Survey and the 2010-2012 PG&E and SCE Multifamily Energy Efficiency Relative to Market Characterization Study as an attempt to identify ways to split the multifamily savings data by in-unit, common area, and master metered. However, neither of these sources provided the data required to provide a valid estimate. Rather than providing an arbitrary split in the data, PG&E will report the total information as accurate as possible in order to support reliable and insightful meter as reporting.	
115	PG&E A06	RMF3	D3a	Lifecycle NET kW	D3: Depth of intervention per building	Metric	Energy savings (kWh, kw, thermal per project (building))	Lifecycle ex-ante kW net per project (building)	Residential Sector - Multifamily (RMF)	2016	0.12	14,491	123,307.17	0.12	0.13	0.13	Numerator: Total savings claimed for MT retrofit project Denominator: Number of buildings that have been retrofitted	PG&E consulted the American Community Survey and the 2010-2012 PG&E and SCE Multifamily Energy Efficiency Relative to Market Characterization Study as an attempt to identify ways to split the multifamily savings data by in-unit, common area, and master metered. However, neither of these sources provided the data required to provide a valid estimate. Rather than providing an arbitrary split in the data, PG&E will report the total information as accurate as possible in order to support reliable and insightful meter as reporting.	PG&E consulted the American Community Survey and the 2010-2012 PG&E and SCE Multifamily Energy Efficiency Relative to Market Characterization Study as an attempt to identify ways to split the multifamily savings data by in-unit, common area, and master metered. However, neither of these sources provided the data required to provide a valid estimate. Rather than providing an arbitrary split in the data, PG&E will report the total information as accurate as possible in order to support reliable and insightful meter as reporting.	

PG&E and SCE are committed to providing accurate information regarding the progress of their programs. Customers with the potential to receive significant savings should be aware that the information provided in this filing is based on the best available information and may not reflect the actual savings realized. PG&E and SCE are committed to providing accurate information regarding the progress of their programs. Customers with the potential to receive significant savings should be aware that the information provided in this filing is based on the best available information and may not reflect the actual savings realized.

Attachment 1: Metrics Compliance Filing

Index	PA	ATA Page	ATA Order	Method Code	Units of Measurement	Metric Type	Metric/Indicator	Business Plan/ATA Description	Metric	Sector	Baseline #	Baseline Number	Baseline Year	Short-Term Annual Targets (2018-2020)			M&G Term Annual Targets (2021-2023)	Long-Term Annual Target (2024-2025)	Methodology	Key Definitions	Proxy Explanation
														2018 Target	2019 Target	2020 Target					
116	PG&E	A04	RMF3	D3a	Lifecycle NET kWh	D3: Depth of interventions per building	Metric	Energy savings (kWh, kW) per project (building)	Lifecycle ex ante kWh Therm net per project (building)	Residential Sector - Multi-Family (RMF)	20,426,499	166	2016	170	173	175	186	Numerator: Total savings claimed for M&G retrofit projects Denominator: Number of buildings that have been retrofitted	"Energy savings" = Lifecycle NET savings per project to increase by 1.4% year over year. PG&E projects savings per project to increase by 1.4% year over year.	Since PG&E does not require building information to be collected and reported from vendors, PG&E used an estimate of 6,011 buildings per property from the 2010-2012 PG&E and SCT Multifamily Energy Efficiency Report Program (MFER) based on conversations with ED and the other PA's. PG&E agrees to assume that Char Acteration Study for this filing. Moving forward, PG&E will collect and report project data per building.	
117	PG&E	A04	RMF3	D3a	Lifecycle NET Therms	D3: Depth of interventions per building	Metric	Energy savings (kWh, kW) per project (building)	Lifecycle ex ante Therms net per project (building)	Residential Sector - Multi-Family (RMF)	1,100,217	8.9	2016	9.2	9.3	9.4	10.0	Numerator: Total savings claimed for M&G retrofit projects Denominator: Number of buildings that have been retrofitted	"Energy savings" = Lifecycle NET savings per project to increase by 1.4% year over year. PG&E projects savings per project to increase by 1.4% year over year.	Since PG&E does not require building information to be collected and reported from vendors, PG&E used an estimate of 6,011 buildings per property from the 2010-2012 PG&E and SCT Multifamily Energy Efficiency Report Program (MFER) based on conversations with ED and the other PA's. PG&E agrees to assume that Char Acteration Study for this filing. Moving forward, PG&E will collect and report project data per building.	
118	PG&E	A04	RMF3	D4	Lifecycle NET kWh	D4: Depth of interventions per property	Metric	Average savings per participant saving per project (property)	Lifecycle ex ante kWh Therm net per project (property)	Residential Sector - Multi-Family (RMF)	14,491	0.71	2016	0.73	0.74	0.75	0.79	Numerator: Total savings claimed for M&G retrofit projects Denominator: Number of participating properties	"Energy savings" = Lifecycle NET savings per project to increase by 1.4% year over year. PG&E projects savings per project to increase by 1.4% year over year.	Since PG&E does not require building information to be collected and reported from vendors, PG&E used an estimate of 6,011 buildings per property from the 2010-2012 PG&E and SCT Multifamily Energy Efficiency Report Program (MFER) based on conversations with ED and the other PA's. PG&E agrees to assume that Char Acteration Study for this filing. Moving forward, PG&E will collect and report project data per building.	
119	PG&E	A04	RMF3	D4	Lifecycle NET kWh	D4: Depth of interventions per property	Metric	Average savings per participant saving per project (property)	Lifecycle ex ante kWh Therm net per project (property)	Residential Sector - Multi-Family (RMF)	20,426,499	996	2016	1024	1038	1053	1121	Numerator: Total savings claimed for M&G retrofit projects Denominator: Number of participating properties	"Energy savings" = Lifecycle NET savings per project to increase by 1.4% year over year. PG&E projects savings per project to increase by 1.4% year over year.	Since PG&E does not require building information to be collected and reported from vendors, PG&E used an estimate of 6,011 buildings per property from the 2010-2012 PG&E and SCT Multifamily Energy Efficiency Report Program (MFER) based on conversations with ED and the other PA's. PG&E agrees to assume that Char Acteration Study for this filing. Moving forward, PG&E will collect and report project data per building.	
120	PG&E	A04	RMF3	D4	Lifecycle NET Therms	D4: Depth of interventions per property	Metric	Average savings per participant saving per project (property)	Lifecycle ex ante Therms net per project (property)	Residential Sector - Multi-Family (RMF)	1,100,217	54	2016	55	56	57	60	Numerator: Total savings claimed for M&G retrofit projects Denominator: Number of participating properties	"Energy savings" = Lifecycle NET savings per project to increase by 1.4% year over year. PG&E projects savings per project to increase by 1.4% year over year.	Since PG&E does not require building information to be collected and reported from vendors, PG&E used an estimate of 6,011 buildings per property from the 2010-2012 PG&E and SCT Multifamily Energy Efficiency Report Program (MFER) based on conversations with ED and the other PA's. PG&E agrees to assume that Char Acteration Study for this filing. Moving forward, PG&E will collect and report project data per building.	

Attachment 1: Metrics Compliance Filing

Index	PA	ATA Page	ATA Order	Method Code	Units of Measurement	Metric Type	Metric Indicator	Business Plan/ATA Description	Metric	Sector	Baseline #	Baseline Number	Baseline Date	Short-Term Annual Targets (2018-2020)			Long-Term Annual Target (2024-2025)	Methodology	Key Definitions	Proxy Explanation
														2018 Target	2019 Target	2020 Target				
121	PG&E	A04	RMF3	D5	Lifecycle NET kW	DS Depth of interventions: Per square foot	Metric: Energy savings (kWh, kW) thermal per square foot	Residential Sector - Multi-Family (RMF)	2016	18,653	9,417,740	0.0020	0.0025	0.0026	0.0032	<p>Numerator: Total MF savings MF premise and account IDs multiplied by the average square footage of MF accounts</p>	<p>Per ID: "Energy savings" = lifecycle NET savings. Includes savings attributed to MF customer for Home Energy Reports, as this metric refers to overall MF savings per square foot, instead of projects.</p>	<p>PG&E does not currently collect square footage data from multi-family program participants, and estimates the average square foot for participants in the 2010-2012 MEER Process Evaluation and Market Characterization studies. There are 535,519 units with five units (855 sq ft) x 1,054,662 with five units (855 sq ft) x 1. From this data, PG&E estimates the average square footage to be 911 square feet, instead of the 1,000 square feet.</p> <p>For more information, see PG&E's July 31, 2017 Revised Metrics Filing, which provides extensive detail on the calculation for MF square footage estimates.</p>		
122	PG&E	A04	RMF3	D5	Lifecycle NET kWh	DS Depth of interventions: Per square foot	Metric: Energy savings (kWh, kW) thermal per square foot	Residential Sector - Multi-Family (RMF)	2016	463,381,154	9,417,740	4.9	5.9	7.8	9.9	<p>Numerator: Total MF savings MF premise and account IDs multiplied by the average square footage of MF accounts</p>	<p>Per ID: "Energy savings" = lifecycle NET savings. Includes savings attributed to MF customer for Home Energy Reports, as this metric refers to overall MF savings per square foot, instead of projects.</p>	<p>PG&E does not currently collect square footage data from multi-family program participants, and estimates the average square foot for participants in the 2010-2012 MEER Process Evaluation and Market Characterization studies. There are 535,519 units with five units (855 sq ft) x 1,054,662 with five units (855 sq ft) x 1. From this data, PG&E estimates the average square footage to be 911 square feet, instead of the 1,000 square feet.</p> <p>For more information, see PG&E's July 31, 2017 Revised Metrics Filing, which provides extensive detail on the calculation for MF square footage estimates.</p>		
123	PG&E	A04	RMF3	D5	Lifecycle NET Therms	DS Depth of interventions: Per square foot	Metric: Energy savings (kWh, kW) thermal per square foot	Residential Sector - Multi-Family (RMF)	2016	1,615,286	9,417,740	0.2	0.4	0.5	1.0	<p>Numerator: Total MF savings MF premise and account IDs multiplied by the average square footage of MF accounts</p>	<p>Per ID: "Energy savings" = lifecycle NET savings. Includes savings attributed to MF customer for Home Energy Reports, as this metric refers to overall MF savings per square foot, instead of projects.</p>	<p>PG&E does not currently collect square footage data from multi-family program participants, and estimates the average square foot for participants in the 2010-2012 MEER Process Evaluation and Market Characterization studies. There are 535,519 units with five units (855 sq ft) x 1,054,662 with five units (855 sq ft) x 1. From this data, PG&E estimates the average square footage to be 911 square feet, instead of the 1,000 square feet.</p> <p>For more information, see PG&E's July 31, 2017 Revised Metrics Filing, which provides extensive detail on the calculation for MF square footage estimates.</p>		

Attachment 1: Metrics Compliance Filing

Index	ATA Page	ATA Order	Method Code	Units of Measurement	Metric Type	Metric/Indicator	Business Plan/ATA Description	Metric	Sector	Baseline #	Baseline #/Year	Short-Term Annual Targets (2018-2020)			Baseline Demand	Key Definitions	Priority Explanation
												2018 Target	2019 Target	2020 Target			
124	PG&E A04	RMF4	P1-P	Percent	P1: Penetration of energy efficiency programs in the eligible market: Participation	Metric: Percent of participation relative to eligible population (by unit, and property)	Percent of participation relative to eligible population by property	Residential Sector - Multi-family (RMF)	2016	0.94%	20,517	2,191,372	0.93%	0.95%	0.93%	Participation is defined as the first instance of participation. PG&E assumes compliance being.	PG&E does not currently know the number of unique properties treated through programs that work with this metric. For now, the number of projects we used as a proxy for an instance of participation. PG&E assumes compliance being.
125	PG&E A04	RMF4	P1-U	Percent	P1: Penetration of energy efficiency programs in the eligible market: Participation	Metric: Percent of participation relative to eligible population (by unit, and property)	Percent of participation relative to eligible population by unit	Residential Sector - Multi-family (RMF)	2016	0.47%	10,340	2,191,372	0.48%	0.48%	0.52%	Participation is defined as the first instance of participation.	PG&E will track the number of unique premises and account IDs provides the closest estimate of the number of units.
126	PG&E A04	RMF4	P2	Percent	P2: Penetration of energy efficiency programs in terms of square feet of population	Metric: Percent of square feet of eligible population participating (by property)	Percent of square feet of eligible population participating (by property)	Residential Sector - Multi-family (RMF)	2016	0.65%	945,237	1,427,950,390	0.66%	0.66%	0.72%	Participation is defined as the first instance of participation.	PG&E will track the number of unique premises and account IDs provides the closest estimate of the number of units.
127	PG&E A04	RMF4	P3-DAC	Percent	P3: Penetration of energy efficiency programs in the eligible market: DAC	Metric: Percent of participation by disadvantaged communities	Percent of participation by disadvantaged communities	Residential Sector - Multi-family (RMF)	2016	1.31%	3,537	262,394	1.34%	1.34%	1.43%	DAC customers defined in accordance with D.18-05-001	PG&E will collect this information from vendors to report on this metric in the future.
128	PG&E A04	RMF4	P4	Percent	P4: Penetration of energy efficiency programs in the eligible market	Metric: Percent of participation by customers defined as "hard-to-reat"	Percent of participation by customers defined as "hard-to-reat"	Residential Sector - Multi-family (RMF)	2016	1.09%	1895	172,021	1.11%	1.11%	1.20%	HTR customers defined in accordance with D.18-05-001.	PG&E will collect this information from vendors to report on this metric in the future.

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Index	PA	ATA Order	ATA Page	Method Code	Units of Measurement	Metric Type	Metric/Indicator	Business Plan/ATA Description	Metric	Sector	Baseline #	Baseline Number	Short Term Annual Targets (2018-2020)			Baseline Diagram	M&D Term Annual Targets (2021-2023)	Long Term Annual Targets (2024-2025)	Methodology	Key Definitions	Priority Explanation
													2018 Target	2019 Target	2020 Target						
129	PG&E	AO4	RMFS	B1	Percent	MF Benchmarking Penetration	Metric	Percent of benchmarked multi-family properties relative to the eligible population	Percent of benchmarked multi-family properties in the eligible population (BMT)	Residential Multi-Family (RMF)	593	0.02%	0.03%	0.04%	2,131,372	0.05%	0.07%	0.12%	This metric captures properties in the program area that have more units in the program area. The benchmark is MF account and premise IDs will be used as a proxy for this filing.	PG&E attempted to identify the number of multi-family units in the program area through a Community Survey, 2019-2021 Multi-Family Energy Efficiency Incentive Program Process (MFEIP), in an AB 802 presentation from the California Energy Commission. PG&E has its own database, but was unable to identify a reliable estimate for the number of multi-family units in the program area. PG&E believes a study on the number of multi-family units, buildings, and properties in its service area would enable PG&E to provide a more accurate benchmarking of this metric, as well as provide useful information for third-party vendors participating in solicitations.	
130	PG&E	AO4	RMFS	B6	Percent	Benchmarking of RTR Properties	Metric	Percent of benchmarking properties defined as "hard-to-retail"	Percent of benchmarking properties defined as "hard-to-retail"	Residential Multi-Family (RMF)	52	0.03%	0.04%	0.05%	172,021	0.06%	0.08%	0.08%	Numerator: Total number of multi-family properties for portfolio Denominator: Total number of unique HTR MF account and premise IDs in PG&E's service area	This metric captures properties in the program area that are "hard-to-retail" as defined by PG&E. The benchmark is MF account and premise IDs in PG&E's service area.	PG&E does not collect language data, this metric identifies multi-family customer that benchmarked as HTR if they are in the program area and geographic and housing type or items.
131	PG&E	AO4	RMFS	LC	PAC Levelized Cost (\$/kW)	Cost per unit saved	Metric	Levelized cost of energy and MW (use both TRC and PAC)	PAC Levelized Cost (\$/kW)	Residential Multi-Family (RMF)	8,729,541	488.00 \$	488.00 \$	488.00 \$	18,653 \$	488.00 \$	488.00 \$	488.00 \$	PAC Cost per kWh or per therm or per MW is (PAC Cost x Electric Benefits/Total Benefits)/Utilitycycle Net kWh or (PAC Cost x Electric Benefits/Total Benefits)/Utilitycycle Net therm or (PAC Cost x Electric Benefits/Total Benefits)/Utilitycycle Net MW respectively The adopted avoided cost methodology does not provide information to provide a meaningful value for TRC or PAC Cost per kW.	Levelized costs are reported by sector consistent with primary vector groupings in C&I/US Programs/AM specifications.	PG&E believes a study on the number of properties in its service area would enable PG&E to provide a more consistent and accurate reporting of this metric, as well as provide useful information for third-party vendors participating in solicitations.
132	PG&E	AO4	RMFS	LC	PAC Levelized Cost (\$/kW)	Cost per unit saved	Metric	Levelized cost of energy and MW (use both TRC and PAC)	PAC Levelized Cost (\$/kW)	Residential Multi-Family (RMF)	8,729,541	0.19 \$	0.19 \$	0.19 \$	46,330,154 \$	0.19 \$	0.19 \$	0.19 \$	PAC Cost per kWh or per therm or per MW is (PAC Cost x Electric Benefits/Total Benefits)/Utilitycycle Net kWh or (PAC Cost x Electric Benefits/Total Benefits)/Utilitycycle Net therm or (PAC Cost x Electric Benefits/Total Benefits)/Utilitycycle Net MW respectively	Levelized costs are reported by sector consistent with primary vector groupings in C&I/US Programs/AM specifications.	PG&E believes a study on the number of properties in its service area would enable PG&E to provide a more consistent and accurate reporting of this metric, as well as provide useful information for third-party vendors participating in solicitations.
133	PG&E	AO4	RMFS	LC	PAC Levelized Cost (\$/Therm)	Cost per unit saved	Metric	Levelized cost of energy and MW (use both TRC and PAC)	PAC Levelized Cost (\$/Therm)	Residential Multi-Family (RMF)	1,886,939	1.04 \$	1.04 \$	1.04 \$	1,812,288 \$	1.04 \$	1.04 \$	1.04 \$	PAC Cost per kWh or per therm or per MW is (PAC Cost x Electric Benefits/Total Benefits)/Utilitycycle Net kWh or (PAC Cost x Electric Benefits/Total Benefits)/Utilitycycle Net therm or (PAC Cost x Electric Benefits/Total Benefits)/Utilitycycle Net MW respectively	Levelized costs are reported by sector consistent with primary vector groupings in C&I/US Programs/AM specifications.	PG&E believes a study on the number of properties in its service area would enable PG&E to provide a more consistent and accurate reporting of this metric, as well as provide useful information for third-party vendors participating in solicitations.

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Index	PA Page	ATA Order	Method Code	Units of Measurement	Metric Type	Metric Indicator	Business Plan A/A Description	Metric	Sector	Baseline #	Baseline Number	Short-Term Annual Targets (2018-2020)			Baseline Demand	Key Definitions	Priority Explanation
												2018 Target	2019 Target	2020 Target			
134	PG&E A04	RMF6	LC	TTC Levelized Cost (\$/kW)	Cost per unit saved	Metric	Levelized cost of energy efficiency per kWh, therm and MW (use both TTC and PAC)	TTC Levelized Cost (\$/kW)	Residential Sector - Multi-Family (RMF)	8,922,425	478.34	478.34	478.34	18,653	Levelized costs are reported by sector consistent with primary sector groupings in CEI&S PROGRAM specifications.	Levelized costs are reported by sector consistent with primary sector groupings in CEI&S PROGRAM specifications.	
135	PG&E A04	RMF6	LC	TTC Levelized Cost (\$/kW)	Cost per unit saved	Metric	Levelized cost of energy efficiency per kWh, therm and MW (use both TTC and PAC)	TTC Levelized Cost (\$/kW)	Residential Sector - Multi-Family (RMF)	8,922,425	0.19	0.19	0.19	463,321,154	Levelized costs are reported by sector consistent with primary sector groupings in CEI&S PROGRAM specifications.	Levelized costs are reported by sector consistent with primary sector groupings in CEI&S PROGRAM specifications.	
136	PG&E A04	RMF6	LC	TTC Levelized Cost (\$/therm)	Cost per unit saved	Metric	Levelized cost of energy efficiency per kWh, therm and MW (use both TTC and PAC)	TTC Levelized Cost (\$/therm)	Residential Sector - Multi-Family (RMF)	1,938,806	1.07	1.07	1.07	1,812,388	Levelized costs are reported by sector consistent with primary sector groupings in CEI&S PROGRAM specifications.	Levelized costs are reported by sector consistent with primary sector groupings in CEI&S PROGRAM specifications.	
137	PG&E A04	RMF7	E2	Btu	Energy intensity per MF unit	Indicator	Average energy use intensity of multifamily buildings, including in-unit accounts	Average electric and gas usage per unit	Residential Sector - Multi-Family (RMF)	N/A - Indicator	N/A - Indicator	N/A - Indicator	N/A - Indicator	N/A - Indicator	PG&E will use unique premise and account data to report total units for MF units. PG&E will use the MF database to report total units for MF buildings. PG&E will use the MF database to report total units for MF buildings. PG&E will use the MF database to report total units for MF buildings. PG&E will use the MF database to report total units for MF buildings.	PG&E will use unique premise and account data to report total units for MF units. PG&E will use the MF database to report total units for MF buildings. PG&E will use the MF database to report total units for MF buildings. PG&E will use the MF database to report total units for MF buildings.	
138	PG&E A04	RMF7	E3	Btu	Energy intensity per MF square foot	Indicator	Average energy use intensity of multifamily buildings (average usage per square foot - net adjusted)	Average electric and gas usage per square foot	Residential Sector - Multi-Family (RMF)	N/A - Indicator	N/A - Indicator	N/A - Indicator	N/A - Indicator	N/A - Indicator	PG&E will use unique premise and account data to report total units for MF units. PG&E will use the MF database to report total units for MF buildings. PG&E will use the MF database to report total units for MF buildings. PG&E will use the MF database to report total units for MF buildings.	PG&E will use unique premise and account data to report total units for MF units. PG&E will use the MF database to report total units for MF buildings. PG&E will use the MF database to report total units for MF buildings. PG&E will use the MF database to report total units for MF buildings.	
139	PG&E A05	C1	S1	KW	S1: Energy Savings	Metric	First year annual and lifecycle savings (electric, gas, and demand) savings (gross and net)	First year annual KW gross	Commercial Sector (C)	N/A	29,466	313,407	28,985	N/A	Baseline data is reported consistent with CEI&S PROGRAM specification and aligns with achievements reported in 2016 Annual Report. Targets were set using the 2018 baseline data. Targets were set using the 2018 baseline data. Targets were set using the 2018 baseline data. Targets were set using the 2018 baseline data.	Baseline data is reported consistent with CEI&S PROGRAM specification and aligns with achievements reported in 2016 Annual Report. Targets were set using the 2018 baseline data. Targets were set using the 2018 baseline data. Targets were set using the 2018 baseline data. Targets were set using the 2018 baseline data.	

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Index	PA	ATA Page	ATA Order	Method Code	Units of Measurement	Metric Type	Metric/Indicator	Business Plan/ATA Description	Metric	Sector	Baseline #	Baseline Number	Short-Term Annual Targets (2018-2020)			Baseline Datum	Key Definitions	Priority Explanation		
													2018 Target	2019 Target	2020 Target					
140	PG&E	A05	C1	S1	KW	S1: Energy Savings	Metric	First year annual and lifecycle ex-ante (pre-evaluation) gas, electric, and demand savings (gross and net)	First year annual kW net	Commercial Sector (C)	N/A	25,531	20,407	21,913	20,023	N/A	2023	Baseline data is reported consistent with primary vector groups in CE DARS PROGRAM specification and aligns with achievements reported in 2016 Annual Report 1. Targets were set using the 2018 Potential and Goals Study, consistent with CHUC adopted goals in D.17-09-025.	Since the Potential Study does not distinguish public sector energy savings potential from commercial sector energy savings potential, PG&E analyzed the ratio of savings achievement in the public sector relative to the commercial sector and applied that ratio to the Potential Study data to distinguish between the two. This represents PG&E's best estimate of future energy savings potential. Savings targets will be updated based on the next version of the Potential Study which distinguishes between commercial and public sector energy savings potential.	
141	PG&E	A05	C1	S1	MWh	S1: Energy Savings	Metric	First year annual and lifecycle ex-ante (pre-evaluation) gas, electric, and demand savings (gross and net)	First year annual MWh gross	Commercial Sector (C)	N/A	190,599,316	153,423,399	162,781,870	156,207,078	N/A	2022	213,174,618	Baseline data is reported consistent with primary vector groups in CE DARS PROGRAM specification and aligns with achievements reported in 2016 Annual Report 1. Targets were set using the 2018 Potential and Goals Study, consistent with CHUC adopted goals in D.17-09-025.	Since the Potential Study does not distinguish public sector energy savings potential from commercial sector energy savings potential, PG&E analyzed the ratio of savings achievement in the public sector relative to the commercial sector and applied that ratio to the Potential Study data to distinguish between the two. This represents PG&E's best estimate of future energy savings potential. Savings targets will be updated based on the next version of the Potential Study which distinguishes between commercial and public sector energy savings potential.
142	PG&E	A05	C1	S1	MWh	S1: Energy Savings	Metric	First year annual and lifecycle ex-ante (pre-evaluation) gas, electric, and demand savings (gross and net)	First year annual MWh net	Commercial Sector (C)	N/A	146,692,910	108,639,338	116,124,760	111,095,104	N/A	2022	153,086,910	Baseline data is reported consistent with primary vector groups in CE DARS PROGRAM specification and aligns with achievements reported in 2016 Annual Report 1. Targets were set using the 2018 Potential and Goals Study, consistent with CHUC adopted goals in D.17-09-025.	Since the Potential Study does not distinguish public sector energy savings potential from commercial sector energy savings potential, PG&E analyzed the ratio of savings achievement in the public sector relative to the commercial sector and applied that ratio to the Potential Study data to distinguish between the two. This represents PG&E's best estimate of future energy savings potential. Savings targets will be updated based on the next version of the Potential Study which distinguishes between commercial and public sector energy savings potential.
143	PG&E	A05	C1	S1	Therm	S1: Energy Savings	Metric	First year annual and lifecycle ex-ante (pre-evaluation) gas, electric, and demand savings (gross and net)	First year annual Therm gross	Commercial Sector (C)	N/A	4,145,997	2,576,502	2,957,246	2,793,529	N/A	2022	4,695,123	Baseline data is reported consistent with primary vector groups in CE DARS PROGRAM specification and aligns with achievements reported in 2016 Annual Report 1. Targets were set using the 2018 Potential and Goals Study, consistent with CHUC adopted goals in D.17-09-025.	Since the Potential Study does not distinguish public sector energy savings potential from commercial sector energy savings potential, PG&E analyzed the ratio of savings achievement in the public sector relative to the commercial sector and applied that ratio to the Potential Study data to distinguish between the two. This represents PG&E's best estimate of future energy savings potential. Savings targets will be updated based on the next version of the Potential Study which distinguishes between commercial and public sector energy savings potential.

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Index	PA	ATA Page	ATA Order	Method Code	Units of Measurement	Metric/Indicator	Business Plan/ATA Description	Metric	Sector	Baseline # & Year	Baseline Number	Baseline Date	Short-Term Annual Targets (2018-2020)			Long-Term Annual Target (2024-2025)	Methodology	Key Definitions	Priority Explanation
													2018 Target	2019 Target	2020 Target				
144	PG&E	A05	C1	S1	Therm	S1: Energy Savings	First year annual and lifecycle ex-ante (pre-evaluation) gas, electric, and demand savings (gross and net)	First year annual (Therm) net	Commercial Sector (C)	2016	3,012,284	N/A	N/A	3,043,834	3,401,485	None	Since the Potential Study does not distinguish public sector energy savings potential from commercial sector energy savings potential, PG&E analyzed the ratio of savings achievement in the public sector relative to the commercial sector and applied that ratio to the Potential Study data to distinguish between the two. This represents PG&E's best estimate of future energy savings potential. Savings targets will be updated based on the next version of the Potential Study which distinguishes between commercial and public sector energy savings potential.		
145	PG&E	A05	C1	S1	kW	S1: Energy Savings	First year annual and lifecycle ex-ante (pre-evaluation) gas, electric, and demand savings (gross and net)	Lifecycle ex-ante gross	Commercial Sector (C)	2016	368,217	N/A	N/A	400,969	446,129	None	Since the Potential Study does not distinguish public sector energy savings potential from commercial sector energy savings potential, PG&E analyzed the ratio of savings achievement in the public sector relative to the commercial sector and applied that ratio to the Potential Study data to distinguish between the two. This represents PG&E's best estimate of future energy savings potential. Savings targets will be updated based on the next version of the Potential Study which distinguishes between commercial and public sector energy savings potential.		
146	PG&E	A05	C1	S1	kW	S1: Energy Savings	First year annual and lifecycle ex-ante (pre-evaluation) gas, electric, and demand savings (gross and net)	Lifecycle ex-ante net	Commercial Sector (C)	2016	275,525	N/A	N/A	288,711	321,354	None	Since the Potential Study does not distinguish public sector energy savings potential from commercial sector energy savings potential, PG&E analyzed the ratio of savings achievement in the public sector relative to the commercial sector and applied that ratio to the Potential Study data to distinguish between the two. This represents PG&E's best estimate of future energy savings potential. Savings targets will be updated based on the next version of the Potential Study which distinguishes between commercial and public sector energy savings potential.		
147	PG&E	A05	C1	S1	MWh	S1: Energy Savings	First year annual and lifecycle ex-ante (pre-evaluation) gas, electric, and demand savings (gross and net)	Lifecycle ex-ante gross	Commercial Sector (C)	2016	1,956,793,417	N/A	N/A	2,056,041,488	2,216,097,467	None	Since the Potential Study does not distinguish public sector energy savings potential from commercial sector energy savings potential, PG&E analyzed the ratio of savings achievement in the public sector relative to the commercial sector and applied that ratio to the Potential Study data to distinguish between the two. This represents PG&E's best estimate of future energy savings potential. Savings targets will be updated based on the next version of the Potential Study which distinguishes between commercial and public sector energy savings potential.		

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Index	PA	ATA Page	ATA Order	Method Code	Units of Measurement	Metric Type	Metric/Indicator	Business Plan Ant A Description	Metric	Sector	Baseline #	Baseline #	Short Term Annual Targets (2018-2020)			Baseline Denom	Key Definitions	Priority Explanation
													2018 Target	2019 Target	2020 Target			
148	PG&E	A05	C1	S1	kWh	S1: Energy Savings	Metric	First year annual and lifecycle ex-ante (pre-evaluation) gas, electric, and demand savings (gross and net)	Lifecycle ex-ante kWh net	Commercial Sector (C)	N/A	N/A	1,213,900,480	1,283,827,843	1,233,893,102	1,083,884,454	Baseline data is reported consistent with primary vector groups in CEIARIS PROGRAM specification and aligns with achievements reported in 2016 Annual Report. Targets were set using the 2018 Potential and Goals Study, consistent with CPUC adopted goals in D.17-09-025.	Since the Potential Study does not distinguish public sector energy savings potential from commercial sector energy savings potential, PG&E analyzed the ratio of savings achievement in the public sector relative to the commercial sector and applied that ratio to the Potential Study energy savings potential. Savings targets will be updated based on the next version of the Potential Study which distinguishes between commercial and public sector energy savings potential.
149	PG&E	A05	C1	S1	Therm	S1: Energy Savings	Metric	First year annual and lifecycle ex-ante (pre-evaluation) gas, electric, and demand savings (gross and net)	Lifecycle ex-ante Therm gross	Commercial Sector (C)	N/A	N/A	30,700,061	34,005,124	32,290,882	47,009,938	Baseline data is reported consistent with primary vector groups in CEIARIS PROGRAM specification and aligns with achievements reported in 2016 Annual Report. Targets were set using the 2018 Potential and Goals Study, consistent with CPUC adopted goals in D.17-09-025.	Since the Potential Study does not distinguish public sector energy savings potential from commercial sector energy savings potential, PG&E analyzed the ratio of savings achievement in the public sector relative to the commercial sector and applied that ratio to the Potential Study energy savings potential. Savings targets will be updated based on the next version of the Potential Study which distinguishes between commercial and public sector energy savings potential.
150	PG&E	A05	C1	S1	Therm	S1: Energy Savings	Metric	First year annual and lifecycle ex-ante (pre-evaluation) gas, electric, and demand savings (gross and net)	Lifecycle ex-ante Therm net	Commercial Sector (C)	N/A	N/A	22,030,413	25,289,602	23,064,115	34,592,577	Baseline data is reported consistent with primary vector groups in CEIARIS PROGRAM specification and aligns with achievements reported in 2016 Annual Report. Targets were set using the 2018 Potential and Goals Study, consistent with CPUC adopted goals in D.17-09-025.	Since the Potential Study does not distinguish public sector energy savings potential from commercial sector energy savings potential, PG&E analyzed the ratio of savings achievement in the public sector relative to the commercial sector and applied that ratio to the Potential Study energy savings potential. Savings targets will be updated based on the next version of the Potential Study which distinguishes between commercial and public sector energy savings potential.
151	PG&E	A05	C1	S2	Percent	S2: Percent Overall Sectoral Savings	Metric	First year annual and lifecycle ex-ante (pre-evaluation) gas, electric, and demand savings (gross and net) as a percentage of overall sectoral usage	Percent first year annual kW gross	Commercial Sector (C)	34,271	13,673,625	0.21%	0.23%	0.21%	0.30%	Denominator = Total commercial usage from PG&E database Numerator = Metric C1 Projected sectoral usage derived by analyzing the forecasted annual percent change in energy use from CEIARIS scenarios from the 2018 Potential and Goals Study, consistent with CPUC adopted goals in D.17-09-025.	None
152	PG&E	A05	C1	S2	Percent	S2: Percent Overall Sectoral Savings	Metric	First year annual and lifecycle ex-ante (pre-evaluation) gas, electric, and demand savings (gross and net) as a percentage of overall sectoral usage	Percent first year annual kW net	Commercial Sector (C)	25,531	13,673,625	0.15%	0.18%	0.15%	0.21%	Denominator = Total commercial usage from PG&E database Numerator = Metric C1 Projected sectoral usage derived by analyzing the forecasted annual percent change in energy use from CEIARIS scenarios from the 2018 Potential and Goals Study.	None

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Index	PA	ATA Page	ATA Order	Method Code	Units of Measurement	Metric Type	Metric Indicator	Business Plan/ATA Description	Metric	Sector	Baseline #	Baseline #	Baseline #	Baseline #	Short-Term Annual Targets (2018-2020)			Long-Term Annual Targets (2021-2023)	Methodology	Key Definitions	Proxy Explanation
															2018 Target	2019 Target	2020 Target				
153	PS&E	A05	C1	S2	Percent	S2: Percent Overall Sectoral Savings	Metric	First year annual and lifecycle ex-ante (pre-evaluation) EIS, electric, and demand savings (gross and net) as a percentage of overall sectoral usage	Percent first year annual kWh per gross	Commercial Sector (C)	190,599,396	34,282,560,394	0.56%	0.49%	0.43%	0.62%	Numerator = Metric C1 Denominator = Total commercial usage from PS&E database Projected sectoral usage derived by analyzing the forecasted annual percent change in energy use from CES sales data (as presented in the "Market" scenario from the 2018 Potential and Goals Study)	None			
154	PS&E	A05	C1	S2	Percent	S2: Percent Overall Sectoral Savings	Metric	First year annual and lifecycle ex-ante (pre-evaluation) EIS, electric, and demand savings (gross and net) as a percentage of overall sectoral usage	Percent first year annual kWh net	Commercial Sector (C)	144,632,910	34,282,560,394	0.42%	0.34%	0.32%	0.44%	Numerator = Metric C1 Denominator = Total commercial usage from PS&E database Projected sectoral usage derived by analyzing the forecasted annual percent change in energy use from CES sales data (as presented in the "Market" scenario from the 2018 Potential and Goals Study)	None			
155	PS&E	A05	C1	S2	Percent	S2: Percent Overall Sectoral Savings	Metric	First year annual and lifecycle ex-ante (pre-evaluation) EIS, electric, and demand savings (gross and net) as a percentage of overall sectoral usage	Percent first year annual Therms gross	Commercial Sector (C)	41,965,597	1,103,846,444	0.38%	0.29%	0.25%	0.37%	Numerator = Metric C1 Denominator = Total commercial usage from PS&E database Projected sectoral usage derived by analyzing the forecasted annual percent change in energy use from CES sales data (as presented in the "Market" scenario from the 2018 Potential and Goals Study)	None			
156	PS&E	A05	C1	S2	Percent	S2: Percent Overall Sectoral Savings	Metric	First year annual and lifecycle ex-ante (pre-evaluation) EIS, electric, and demand savings (gross and net) as a percentage of overall sectoral usage	Percent first year annual Therms net	Commercial Sector (C)	3,022,184	1,103,846,444	0.27%	0.19%	0.21%	0.31%	Numerator = Metric C1 Denominator = Total commercial usage from PS&E database Projected sectoral usage derived by analyzing the forecasted annual percent change in energy use from CES sales data (as presented in the "Market" scenario from the 2018 Potential and Goals Study)	None			
157	PS&E	A05	C1	S2	Percent	S2: Percent Overall Sectoral Savings	Metric	First year annual and lifecycle ex-ante (pre-evaluation) EIS, electric, and demand savings (gross and net) as a percentage of overall sectoral usage	Percent lifecycle ex-ante kWh gross	Commercial Sector (C)	368,217	13,673,625	2.69%	2.28%	2.25%	3.23%	Numerator = Metric C1 Denominator = Total commercial usage from PS&E database Projected sectoral usage derived by analyzing the forecasted annual percent change in energy use from CES sales data (as presented in the "Market" scenario from the 2018 Potential and Goals Study)	None			
158	PS&E	A05	C1	S2	Percent	S2: Percent Overall Sectoral Savings	Metric	First year annual and lifecycle ex-ante (pre-evaluation) EIS, electric, and demand savings (gross and net) as a percentage of overall sectoral usage	Percent lifecycle ex-ante kWh net	Commercial Sector (C)	277,525	13,673,625	2.03%	1.70%	1.68%	2.41%	Numerator = Metric C1 Denominator = Total commercial usage from PS&E database Projected sectoral usage derived by analyzing the forecasted annual percent change in energy use from CES sales data (as presented in the "Market" scenario from the 2018 Potential and Goals Study)	None			
159	PS&E	A05	C1	S2	Percent	S2: Percent Overall Sectoral Savings	Metric	First year annual and lifecycle ex-ante (pre-evaluation) EIS, electric, and demand savings (gross and net) as a percentage of overall sectoral usage	Percent lifecycle ex-ante kWh gross	Commercial Sector (C)	1,953,784,17	34,282,560,394	5.83%	4.62%	4.71%	6.43%	Numerator = Metric C1 Denominator = Total commercial usage from PS&E database Projected sectoral usage derived by analyzing the forecasted annual percent change in energy use from CES sales data (as presented in the "Market" scenario from the 2018 Potential and Goals Study)	None			

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Index	PA	ATA Page	ATA Order	Method Code	Units of Measurement	Metric Type	Metric/ Indicator	Business Plan/ATA Description	Metric	Sector	Baseline Year	Baseline Number	Baseline Demand	Short Term Annual Targets (2018-2020)			M&D Term Annual Targets (2021-2023)	Long Term Annual Targets (2024-2025)	Methodology	Key Definitions	Priority Explanation	
														2018 Target	2019 Target	2020 Target						
B0	PG&E	A05	C1	S2	Percent	S2: Percent Sectoral Savings	Metric	First year annual and lifecycle savings (gross and net) as a percentage of overall sectoral usage	Percent lifecycle savings/annual kWh net	Commercial Sector (C)	2016	4.42%	34,282,560,394	3.31%	3.72%	3.58%	4.41%	4.89%	Numerator = Metric (C) Denominator = Total commercial usage from PG&E database	None	None	
B1	PG&E	A05	C1	S2	Percent	S2: Percent Overall Sectoral Savings	Metric	First year annual and lifecycle savings (gross and net) as a percentage of overall sectoral usage	Percent lifecycle savings/annual kWh gross	Commercial Sector (C)	2016	4.42%	1,103,865,444	2.73%	3.13%	2.93%	3.90%	4.31%	Projected sectoral usage derived by analyzing the forecasted annual percent change in energy use from CES sales data (as presented in the "Net" scenario from the 2018 Potential and Goals Study)	Numerator = Metric (C) Denominator = Total commercial usage from PG&E database	None	None
B2	PG&E	A05	C1	S2	Percent	S2: Percent Overall Sectoral Savings	Metric	First year annual and lifecycle savings (gross and net) as a percentage of overall sectoral usage	Percent lifecycle savings/annual kWh net	Commercial Sector (C)	2016	3.14%	1,103,865,444	1.88%	2.28%	2.14%	2.83%	3.12%	Projected sectoral usage derived by analyzing the forecasted annual percent change in energy use from CES sales data (as presented in the "Net" scenario from the 2018 Potential and Goals Study)	Numerator = Metric (C) Denominator = Total commercial usage from PG&E database	None	None
B3	PG&E	A05	C2	G	MT CO2e/yr	GHG	Metric	Greenhouse gases (MT CO2e) reported on an annual basis	CO2-equivalent of annual kWh savings	Commercial Sector (C)	2016	69,481	N/A	52,387	55,297	66,477	73,534	Calculated using CEM, and reported by project groups in CEDARS PROGRAM specification.	Includes CO2 but not CH4 and F-Gases, there are not GHG equivalents.			
B4	PG&E	A05	C3	D2	Percent	D2: Depth of new vendors by project	Metric	Energy savings (gross kWh, therm) as a fraction of total project consumption	Percent lifecycle gross kWh savings	Commercial Sector (C)	2016	N/A	N/A	N/A	N/A	N/A	N/A	Does not calculate as Attachment A, therm) as a fraction of total project consumption. Does not include gross kWh.	None			
B5	PG&E	A05	C3	D2	Percent	D2: Depth of new vendors by project	Metric	Energy savings (gross kWh, therm) as a fraction of total project consumption	Percent lifecycle gross kWh savings	Commercial Sector (C)	2016	30.4%	6,372,142,090	30.4%	30.6%	31.0%	31.4%	31.9%	Numerator: Energy savings claimed for project Denominator: Energy usage baseline on application against which project savings is measured	"Project" is defined as "per application"		
B6	PG&E	A05	C3	D2	Percent	D2: Depth of new vendors by project	Metric	Energy savings (gross kWh, therm) as a fraction of total project consumption	Percent lifecycle gross kWh savings	Commercial Sector (C)	2016	1.28%	36,172,471	1.28%	1.28%	1.30%	1.32%	1.34%	Numerator: Energy savings claimed for project Denominator: Energy usage baseline on application against which project savings is measured	"Project" is defined as "per application"		
B7	PG&E	A05	C4	P1L	Percent	P1: Penetration of energy efficiency programs in the eligible market: Participation	Metric	Percent of participation relative to eligible population for small, medium, and large customers	Percent of participation relative to eligible population for large customers	Commercial Sector (C)	2016	17.89%	2058	17.89%	17.49%	18.36%	19.34%	13.24%	Numerator: Number of participating large customers (defined by unique account and premise ID) Denominator: Total number of large customers in the sector (defined by unique combination of account and premise ID)	Participation is defined as the first instance of participation. Medium customers are defined as those using greater than or equal to 500,000 kWh or 250,000 therms annually.		
B8	PG&E	A05	C4	P1M	Percent	P1: Penetration of energy efficiency programs in the eligible market: Participation	Metric	Percent of participation relative to eligible population for small, medium, and large customers	Percent of participation relative to eligible population for medium customers	Commercial Sector (C)	2016	7.24%	114023	7.24%	7.60%	7.60%	7.97%	7.97%	Numerator: Number of participating medium customers (defined by unique combination of account and premise ID) Denominator: Total number of medium customers in the sector (defined by unique combination of account and premise ID)	Participation is defined as the first instance of participation. Medium customers are defined as those who use between 40,000-500,000 kWh or 10,000-250,000 therms annually.		

Attachment 1: Metrics Compliance Filing

Index	PA	ATA Page	ATA Order	Method Code	Units of Measurement	Metric Type	Metric/Indicator	Business Plan/ATA Description	Metric	Sector	Baseline Year	Baseline Number	Baseline Num	Baseline Denom	Short-Term Annual Targets (2018-2020)			M&D Term Annual Targets (2021-2023)	Long-Term Annual Targets (2024-2025)	Methodology	Key Definitions	Privacy Explanation
															2018 Target	2019 Target	2020 Target					
169	PS&E	A05	C4	P15	Percent	P1: Penetration of energy efficiency programs in the eligible population	Metric: Percent of eligible population for small, medium, and large customers	Percent of participation relative to eligible population for small, medium, and large customers	Percent of participation relative to eligible population for small customers	Commercial Sector (C)	2016	1.39%	6485	479292	5.00%	5.00%	5.00%	5.00%	Numerator: Number of participating customers in the sector (defined by the combination of account and premise ID) Denominator: Total number of small customers in the sector (defined by the combination of account and premise ID)	Participation relative to the total number of participating customers. Small customers are defined as those who use less than 40,000 kWh or 10,000 therms annually. Targets are set at 5% in compliance with D.18-05-041. The methodology for this metric is the participant's bill to be determined.		
170	PS&E	A05	C4	P2	Percent	P2: Penetration of energy efficiency programs in terms of eligible population	Metric: Percent of eligible population	Percent of square feet of eligible population	Percent of square feet of eligible population	Commercial Sector (C)	2016	2.81%	53,346,434	1,969,884,000	5.67%	5.73%	5.73%	5.84%	Numerator: square footage of participating service commercial customers Denominator: square footage of the commercial sector	PS&E does not currently collect square footage data from participants. The numerator for this metric multiplies the number of participating buildings in PS&E's service territory. This was derived from the Commercial Saturation Survey to determine square footage, but decided on a GIS based on Commission decision. PS&E will require this information to be collected to track this metric moving forward.		
171	PS&E	A05	C4	P4	Percent	P4: Penetration of energy programs in the TRM market	Metric: Percent of participation by customers defined as "hard-to-reat"	Percent of participation by customers defined as "hard-to-reat"	Percent of participation by customers defined as "hard-to-reat"	Commercial Sector (C)	2016	2.6%	6747	258,934	2.7%	2.8%	3.0%	3.3%	Numerator: Number of commercial HTR participants (unique account and premise ID) Denominator: Total number of HTR commercial customers (unique account and premise ID)	PS&E does not currently collect whether the customer's primary language is other than English. As a result, this metric is based on geographic and business site data.	PS&E will collect all required information to track this metric moving forward.	
172	PS&E	A05	C5	B2	Percent	B2: Square Footage of Commercial Benchmarking Penetration	Metric: Percent of benchmarked square feet of eligible population	Percent of benchmarked square feet of eligible population	Percent of benchmarked square feet of eligible population	Commercial Sector (C)	2016	4.63%	91,200,156	1,969,884,000	6.67%	8.00%	9.60%	11.65%	Numerator: Total square footage of participating buildings in Portfolio Manager using PS&E portal Denominator: Total square footage of commercial sector	PS&E estimates the total square footage of this commercial sector using data from CEUS.		
173	PS&E	A05	C5	B51	Percent	B51: Benchmarking Penetration for Commercial Sector	Metric: Percent of benchmarked square feet of eligible population for large customers	Percent of benchmarked square feet of eligible population for large customers	Percent of benchmarked square feet of eligible population for large customers	Commercial Sector (C)	2016	3.53%	415	11798	11798	5.88%	6.50%	7.32%	8.88%	Numerator: Number of large commercial customers that are benchmarked using PS&E portal Denominator: Total number of large commercial customers (unique account and premise ID)	PS&E considered using data from other sources to benchmark large customers, but decided to use the unique combination of premise ID and account ID from PS&E data to distinguish between small, medium, and large customers.	PS&E will explore opportunities to better report this metric using data from sources such as CEUS, but believes a study on the accuracy of this data would provide more accurate data to the solicitation process.

Attachment 1: Metrics Compliance Filing

Index	PA	ATA Order	Method Code	Units of Measurement	Metric Type	Metric/Indicator	Business Plan Ant A Description	Metric	Sector	Baseline #	Baseline Number	Short Term Annual Targets (2018-2020)			Baseline Diagon	Long Term Annual Targets (2021-2023)	Key Definitions	Priority Explanation
												2018 Target	2019 Target	2020 Target				
174	PG&E	A05	C5	B3M	Percent	Benchmarking Penetration Commercial Sector	Percent of benchmarked customers relative to eligible population for medium customers	Percent of benchmarked customers relative to eligible population for medium customers	Commercial Sector (C)	2016	0.56%	0.81%	0.97%	1.16%	1.41%	Medium customers are defined as commercial customers that are benchmarked on Portfolio Manager using PG&E portal. Denominator: Total number of medium commercial customers (unique account and premise ID). This metric includes customers benchmarked within the calendar year.	PG&E considered using data on covered commercial buildings from the A8 802 ID and account ID because the A8 802 data could not easily be broken down to large customers. PG&E will explore opportunities to better report this metric using data from sources such as CoStar, but believes a study on the commercial building stock in its service area would provide more accurate data that would also add value to the solicitation process.	
175	PG&E	A05	C5	B35	Percent	Benchmarking Penetration Commercial Sector	Percent of benchmarked customers relative to eligible population for small customers	Percent of benchmarked customers relative to eligible population for small customers	Commercial Sector (C)	2016	0.10%	0.14%	0.17%	0.21%	0.23%	Small customers are defined consistent with criteria approved in PG&E's Business Plan. Specifically, small customers are less than 40,000 kWh or 10,000 therms per year. This metric includes customers benchmarked within the calendar year.	PG&E considered using data on covered commercial buildings from the A8 802 benchmarking presentation, but decided to use the unique combination of premise ID and account ID because the A8 802 data could not easily be broken down to large customers. PG&E will explore opportunities to better report this metric using data from sources such as CoStar, but believes a study on the commercial building stock in its service area would provide more accurate data that would also add value to the solicitation process.	
176	PG&E	A05	C5	B6	Percent	Benchmarking Penetration Commercial Sector	Percent of benchmarking customers defined as "hard to reach"	Percent of benchmarking customers defined as "hard to reach"	Commercial Sector (C)	2016	0.18%	0.25%	0.30%	0.37%	0.44%	IFR customers defined based on D.18 C5 goal. This metric captures customers benchmarked within the calendar year.	PG&E will explore opportunities to better report this metric using data from sources such as CoStar, but believes a study on the commercial building stock in its service area would provide more accurate data that would also add value to the solicitation process.	
177	PG&E	A05	C6	LC	Cost per unit saved	Levelized cost of energy efficiency (LCOE) and MW (use both TIC and PAC)	Levelized cost of energy efficiency (LCOE) and MW (use both TIC and PAC)	PAC Levelized Cost (\$/kW)	Commercial Sector (C)	2016	\$ 381.52	\$ 381.50	\$ 381.52	\$ 381.52	\$ 342.73	PAC cost per kWh or per therm or per MW is (PAC Cost x Electric Benefits/Total Benefits)/Lifecycle Net kWh or (PAC Cost x Electric Benefits/Total Benefits)/Lifecycle Net therm or (PAC Cost x Electric Benefits/Total Benefits)/Lifecycle Net MW respectively. This adopted avoided cost methodology does not provide information to provide a meaningful value for TIC or PAC Cost per kWh. Levelized costs are reported by actor consistent with primary sector groupings in CEIARIS PROGRAM specifications.	PG&E will explore opportunities to better report this metric using data from sources such as CoStar, but believes a study on the commercial building stock in its service area would provide more accurate data that would also add value to the solicitation process.	
178	PG&E	A05	C6	LC	Cost per unit saved	Levelized cost of energy efficiency (LCOE) and MW (use both TIC and PAC)	Levelized cost of energy efficiency (LCOE) and MW (use both TIC and PAC)	PAC Levelized Cost (\$/kW)	Commercial Sector (C)	2016	\$ 0.07	\$ 0.07	\$ 0.07	\$ 0.07	\$ 0.06	MW is (PAC Cost x Electric Benefits/Total Benefits)/Lifecycle Net kWh or (PAC Cost x Gas Benefits/Total Benefits)/Lifecycle Net therm or (PAC Cost x Electric Benefits/Total Benefits)/Lifecycle Net MW respectively. Levelized costs are reported by actor consistent with primary sector groupings in CEIARIS PROGRAM specifications.	PG&E will explore opportunities to better report this metric using data from sources such as CoStar, but believes a study on the commercial building stock in its service area would provide more accurate data that would also add value to the solicitation process.	
179	PG&E	A05	C6	LC	Cost per unit saved	Levelized cost of energy efficiency (LCOE) and MW (use both TIC and PAC)	Levelized cost of energy efficiency (LCOE) and MW (use both TIC and PAC)	PAC Levelized Cost (\$/therm)	Commercial Sector (C)	2016	\$ 0.47	\$ 0.47	\$ 0.47	\$ 0.47	\$ 0.42	PAC cost per kWh or per therm or per MW is (PAC Cost x Electric Benefits/Total Benefits)/Lifecycle Net kWh or (PAC Cost x Electric Benefits/Total Benefits)/Lifecycle Net therm or (PAC Cost x Electric Benefits/Total Benefits)/Lifecycle Net MW respectively. Levelized costs are reported by actor consistent with primary sector groupings in CEIARIS PROGRAM specifications.	PG&E will explore opportunities to better report this metric using data from sources such as CoStar, but believes a study on the commercial building stock in its service area would provide more accurate data that would also add value to the solicitation process.	

Attachment 1: Metrics Compliance Filing

Index	ATA Page	ATA Order	Method Code	Units of Measurement	Metric Type	Metric/Indicator	Business Plan/ATA Description	Metric	Sector	Baseline #	Baseline # Year	Short Term Annual Targets (2018-2020)			Baseline Amount	Long Term Annual Targets (2021-2023)	Methodology	Key Definitions	Priority Explanation
												2018 Target	2019 Target	2020 Target					
B80	PG&E A05 C6	LC	TTC Levelized Cost (\$/kW)	Cost per unit saved	Metric	Levelized cost of energy efficiency per MW, therm and MW (use both TRC and PAC)	TTC Levelized Cost (\$/kW)	Commercial Sector (C)	2016	682.49	682.49	682.49	277,223	614.24	614.24	TTC cost per kWh or per therm or per MW (1) TTC Cost x Electric Benefit/Total Benefit/ Lifecycle Net Therm or (TRC Cost x Electric Benefit/Total Benefit) Lifecycle Net Therm or (TRC Cost x Electric Benefit/Total Benefit) Lifecycle Net MW respectively	Levelized costs are reported by sector consistent with primary sector groupings in CEIAMS PROGRAM specifications.		
B81	PG&E A05 C6	LC	TTC Levelized Cost (\$/kW)	Cost per unit saved	Metric	Levelized cost of energy efficiency per MW, therm and MW (use both TRC and PAC)	TTC Levelized Cost (\$/kW)	Commercial Sector (C)	2016	0.13	0.13	0.13	1,514,466.536	0.11	0.11	The adopted avoided cost methodology does not provide information on the avoided cost for TRC or PAC Cost per kW.	Levelized costs are reported by sector consistent with primary sector groupings in CEIAMS PROGRAM specifications.		
B82	PG&E A05 C6	LC	TTC Levelized Cost (\$/Therm)	Cost per unit saved	Metric	Levelized cost of energy efficiency per MW, therm and MW (use both TRC and PAC)	TTC Levelized Cost (\$/Therm)	Commercial Sector (C)	2016	0.84	0.84	0.84	34,872,505	0.76	0.76	TTC cost per kWh or per therm or per MW (1) TTC Cost x Electric Benefit/Total Benefit/ Lifecycle Net Therm or (TRC Cost x Electric Benefit/Total Benefit) Lifecycle Net Therm or (TRC Cost x Electric Benefit/Total Benefit) Lifecycle Net MW respectively	Levelized costs are reported by sector consistent with primary sector groupings in CEIAMS PROGRAM specifications.		
B83	PG&E A05 C7	N1	Percent	Percent	Indicator	Fraction of total projects utilizing Metered Energy Consumption (MMEC) to estimate savings	Percent of total savings projects utilizing Metered Energy Consumption (MMEC) to estimate savings	Commercial Sector (C)	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Per CAEECC meeting, "Fraction of total custom projects utilizing MMEC to estimate savings." ****Data from COMB. (Custom Measure and Report Action)			
B84	PG&E A05 C7	N2	Percent	Percent	Indicator	Fraction of total savings projects derived from MMEC analysis	Percent of total savings projects derived from MMEC analysis	Commercial Sector (C)	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Per CAEECC Meeting, MBE will develop consistent survey instrument annually.		
B85	PG&E A05 C8	C5	Percent	Satisfaction	Indicator	Improvement in customer satisfaction	Percent improvement in customer satisfaction	Commercial Sector (C)	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Per CAEECC Meeting, MBE will develop consistent survey instrument annually.		
B86	PG&E A05 C8	T5	Percent	Satisfaction	Indicator	Improvement in trade ally satisfaction	Percent improvement in trade ally satisfaction	Commercial Sector (C)	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Per CAEECC Meeting, MBE will develop consistent survey instrument annually.		
B87	PG&E A05 C8	F1	Percent	Investment in EE	Indicator	Fraction of total investments made by retrofits and private capital	Percent of total investments made by retrofits and private capital	Commercial Sector (C)	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Per CAEECC meeting, MBE will develop consistent survey instrument annually.		
B88	PG&E A06 P1	S1	First year annual kWh gross	51: Energy Savings	Metric	First year annual and lifecycle ex-ante (pre-evaluation) gas, electric, and water savings across Public Sector programs	First year annual kWh gross	Public Sector (P)	2016	9,099	10,339	5,541	N/A	13,711	13,711	Baseline data is reported consistent with primary sector groups in CEIAMS achievements reported in 2016 Annual Report 1. Targets were set using the 2018 Potential and goal. Study consistent with CAEECC adopted goals in D.17.06-0225.	None	Size the Potential Study does not allow for the savings potential from commercial sector energy savings potential. PG&E analyzed the ratio of savings achievement in the public sector data to distinguish between the two. This represents PG&E's best estimate of future potential and goal. Study consistent with CAEECC adopted goals in D.17.06-0225.	

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Index	PA	ATA Page	ATA Order	Method Code	Units of Measurement	Metric/Indicator	Business Plan/ATA Description	Metric	Sector	Baseline # & Year	Baseline Number	Baseline Date	Short-Term Annual Targets (2018-2020)			Long-Term Annual Target (2024-2025)	Methodology	Key Definitions	Priority Explanation
													2018 Target	2019 Target	2020 Target				
B9	PG&E	A06	P1	S1	First year annual kWh net	S1: Energy Savings	First year annual and lifecycle ex-ante (pre-evaluation) gas, electric, and demand savings (gross and net) across Public Sector programs	First year annual kWh net	Public Sector (PP)	2016	8,450	N/A	N/A	6,674	7,304	6,674	9,707	Baseline data is reported consistent with primary vector groups in CEIARIS PROGRAM specification and aligns with achievements reported in 2016 Annual Report. Targets were set using the 2018 Potential and Goals Study, consistent with CHUC-adapted goals in 0.17-0B-02E.	Since the Potential Study does not distinguish public sector energy savings potential from commercial sector energy savings potential, PG&E analyzed their ratio of savings achievement in the public sector relative to the commercial sector and applied that ratio to the Potential Study data to distinguish between the two. This represents PG&E's best estimate of future energy savings potential. Savings targets will be updated based on the next version of the Potential Study which distinguishes between commercial and public sector energy savings potential.
B10	PG&E	A06	P1	S1	First year annual kWh gross	S1: Energy Savings	First year annual and lifecycle ex-ante (pre-evaluation) gas, electric, and demand savings (gross and net) across Public Sector programs	First year annual kWh gross	Public Sector (PP)	2016	60,201,732	N/A	N/A	50,883,471	52,983,484	50,883,471	68,385,701	Baseline data is reported consistent with primary vector groups in CEIARIS PROGRAM specification and aligns with achievements reported in 2016 Annual Report. Targets were set using the 2018 Potential and Goals Study, consistent with CHUC-adapted goals in 0.17-0B-02E.	Since the Potential Study does not distinguish public sector energy savings potential from commercial sector energy savings potential, PG&E analyzed their ratio of savings achievement in the public sector relative to the commercial sector and applied that ratio to the Potential Study data to distinguish between the two. This represents PG&E's best estimate of future energy savings potential. Savings targets will be updated based on the next version of the Potential Study which distinguishes between commercial and public sector energy savings potential.
B11	PG&E	A06	P1	S1	First year annual kWh net	S1: Energy Savings	First year annual and lifecycle ex-ante (pre-evaluation) gas, electric, and demand savings (gross and net) across Public Sector programs	First year annual kWh net	Public Sector (PP)	2016	46,860,305	N/A	N/A	37,001,701	38,708,820	37,001,701	51,025,270	Baseline data is reported consistent with primary vector groups in CEIARIS PROGRAM specification and aligns with achievements reported in 2016 Annual Report. Targets were set using the 2018 Potential and Goals Study, consistent with CHUC-adapted goals in 0.17-0B-02E.	Since the Potential Study does not distinguish public sector energy savings potential from commercial sector energy savings potential, PG&E analyzed their ratio of savings achievement in the public sector relative to the commercial sector and applied that ratio to the Potential Study data to distinguish between the two. This represents PG&E's best estimate of future energy savings potential. Savings targets will be updated based on the next version of the Potential Study which distinguishes between commercial and public sector energy savings potential.
B12	PG&E	A06	P1	S1	First year annual kWh gross	S1: Energy Savings	First year annual and lifecycle ex-ante (pre-evaluation) gas, electric, and demand savings (gross and net) across Public Sector programs	First year annual kWh gross	Public Sector (PP)	2016	72,278	N/A	N/A	54,304	57,985	54,304	79,316	Baseline data is reported consistent with primary vector groups in CEIARIS PROGRAM specification and aligns with achievements reported in 2016 Annual Report. Targets were set using the 2018 Potential and Goals Study, consistent with CHUC-adapted goals in 0.17-0B-02E.	Since the Potential Study does not distinguish public sector energy savings potential from commercial sector energy savings potential, PG&E analyzed their ratio of savings achievement in the public sector relative to the commercial sector and applied that ratio to the Potential Study data to distinguish between the two. This represents PG&E's best estimate of future energy savings potential. Savings targets will be updated based on the next version of the Potential Study which distinguishes between commercial and public sector energy savings potential.

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Index	PA	ATA Page	ATA Order	Method Code	Units of Measurement	Metric/Indicator	Business Plan/ATA Description	Metric	Sector	Baseline #	Baseline Number	Short-Term Annual Targets (2018-2020)			Baseline Diagram	Key Definitions	Priority Explanation
												2018 Target	2019 Target	2020 Target			
B3	PG&E	A06	P1	S1	First year annual lifecycle ex-ante net	S1: Energy Savings	First year annual and lifecycle ex-ante electric, gas, and demand savings (gross and net) across Public Sector programs	First year annual lifecycle ex-ante net	Public Sector (P)	N/A	(35,127)	(47,398)	(43,278)	N/A	Baseline data is reported consistent with primary vector groups in CEIARS PROGRAM specification and aligns with achievements reported in 2016 Annual Report. Targets were set using the 2018 Potential and Goals Study, consistent with CHUC adopted goals in D.17-09-025.	Since the Potential Study does not distinguish public sector energy savings potential from commercial sector energy savings potential, PG&E analyzed the ratio of savings achievement in the public sector relative to the commercial sector and applied that ratio to the Potential Study data to distinguish between the two. This represents PG&E's best estimate of future energy savings potential. Savings targets will be updated based on the next version of the Potential Study which distinguishes between commercial and public sector energy savings potential.	
B4	PG&E	A06	P1	S1	Lifecycle ex-ante net	S1: Energy Savings	First year annual and lifecycle ex-ante electric, gas, and demand savings (gross and net) across Public Sector programs	Lifecycle ex-ante net	Public Sector (P)	N/A	92,915	119,917	103,482	N/A	Baseline data is reported consistent with primary vector groups in CEIARS PROGRAM specification and aligns with achievements reported in 2016 Annual Report. Targets were set using the 2018 Potential and Goals Study, consistent with CHUC adopted goals in D.17-09-025.	Since the Potential Study does not distinguish public sector energy savings potential from commercial sector energy savings potential, PG&E analyzed the ratio of savings achievement in the public sector relative to the commercial sector and applied that ratio to the Potential Study data to distinguish between the two. This represents PG&E's best estimate of future energy savings potential. Savings targets will be updated based on the next version of the Potential Study which distinguishes between commercial and public sector energy savings potential.	
B5	PG&E	A06	P1	S1	Lifecycle ex-ante net	S1: Energy Savings	First year annual and lifecycle ex-ante electric, gas, and demand savings (gross and net) across Public Sector programs	Lifecycle ex-ante net	Public Sector (P)	N/A	69,939	83,375	77,991	N/A	Baseline data is reported consistent with primary vector groups in CEIARS PROGRAM specification and aligns with achievements reported in 2016 Annual Report. Targets were set using the 2018 Potential and Goals Study, consistent with CHUC adopted goals in D.17-09-025.	Since the Potential Study does not distinguish public sector energy savings potential from commercial sector energy savings potential, PG&E analyzed the ratio of savings achievement in the public sector relative to the commercial sector and applied that ratio to the Potential Study data to distinguish between the two. This represents PG&E's best estimate of future energy savings potential. Savings targets will be updated based on the next version of the Potential Study which distinguishes between commercial and public sector energy savings potential.	
B6	PG&E	A06	P1	S1	Lifecycle ex-ante net	S1: Energy Savings	First year annual and lifecycle ex-ante electric, gas, and demand savings (gross and net) across Public Sector programs	Lifecycle ex-ante net	Public Sector (P)	N/A	59,051,250	56,827,555	54,024,058	N/A	Baseline data is reported consistent with primary vector groups in CEIARS PROGRAM specification and aligns with achievements reported in 2016 Annual Report. Targets were set using the 2018 Potential and Goals Study, consistent with CHUC adopted goals in D.17-09-025.	Since the Potential Study does not distinguish public sector energy savings potential from commercial sector energy savings potential, PG&E analyzed the ratio of savings achievement in the public sector relative to the commercial sector and applied that ratio to the Potential Study data to distinguish between the two. This represents PG&E's best estimate of future energy savings potential. Savings targets will be updated based on the next version of the Potential Study which distinguishes between commercial and public sector energy savings potential.	

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Index	PA	ATA Page	ATA Order	Method Code	Units of Measurement	Metric Type	Metric/ Indicator	Business Plan/ATA Description	Metric	Sector	Baseline #	Baseline Number	Short-Term Annual Targets (2018-2020)			Baseline Diagram	Methodology	Key Definitions	Priority Explanation
													2018 Target	2019 Target	2020 Target				
197	PG&E	A06	P1	S1	Lifecycle estimate kWh net	S1: Energy Savings	Metric	First year annual and lifecycle estimate (pre-evaluation) gas, electric, and demand savings (gross and net) across Public Sector programs	Lifecycle estimate kWh net	Public Sector (P)	N/A	451,512,294	403,988,163	411,297,667	N/A	Baseline data is reported consistent with primary vector groups in CE DARS PROGRAM specification and aligns with achievements reported in 2016 Annual Report. Targets were set using the 2018 Potential and Goals Study, consistent with CHUC adopted goals in D.17-0b-025.	Since the Potential Study does not distinguish public sector energy savings potential from commercial sector energy savings potential, PG&E analyzed the ratio of savings achievement in the public sector relative to the commercial sector and applied that ratio to the Potential Study results to estimate public sector energy savings potential. Savings targets will be updated based on the next version of the Potential Study which distinguishes between commercial and public sector energy savings potential.		
198	PG&E	A06	P1	S1	Lifecycle estimate Therm gross	S1: Energy Savings	Metric	First year annual and lifecycle estimate (pre-evaluation) gas, electric, and demand savings (gross and net) across Public Sector programs	Lifecycle estimate Therm gross	Public Sector (P)	N/A	216,569	594,589	609,115	N/A	Baseline data is reported consistent with primary vector groups in CE DARS PROGRAM specification and aligns with achievements reported in 2016 Annual Report. Targets were set using the 2018 Potential and Goals Study, consistent with CHUC adopted goals in D.17-0b-025.	Since the Potential Study does not distinguish public sector energy savings potential from commercial sector energy savings potential, PG&E analyzed the ratio of savings achievement in the public sector relative to the commercial sector and applied that ratio to the Potential Study results to estimate public sector energy savings potential. Savings targets will be updated based on the next version of the Potential Study which distinguishes between commercial and public sector energy savings potential.		
199	PG&E	A06	P1	S1	Lifecycle estimate Therm net	S1: Energy Savings	Metric	First year annual and lifecycle estimate (pre-evaluation) gas, electric, and demand savings (net) across Public Sector programs	Lifecycle estimate Therm net	Public Sector (P)	N/A	115,588	432,028	446,394	N/A	Baseline data is reported consistent with primary vector groups in CE DARS PROGRAM specification and aligns with achievements reported in 2016 Annual Report. Targets were set using the 2018 Potential and Goals Study, consistent with CHUC adopted goals in D.17-0b-025.	Since the Potential Study does not distinguish public sector energy savings potential from commercial sector energy savings potential, PG&E analyzed the ratio of savings achievement in the public sector relative to the commercial sector and applied that ratio to the Potential Study results to estimate public sector energy savings potential. Savings targets will be updated based on the next version of the Potential Study which distinguishes between commercial and public sector energy savings potential.		
200	PG&E	A06	P2	G	MT CO ₂ eq	GHG	Metric	Greenhouse gases (MT CO ₂ eq) based on net lifecycle kWh and Therm net and an annual basis, incorporating average fuel/technology mix	CO ₂ -equivalents of net annual kWh savings	Public Sector (P)	N/A	20,776	15,962	16,601	N/A	Calculated using CEE and reported by sector consistent with primary vector groupings in CE DARS PROGRAM specification.	Includes CO ₂ but not NO _x and PM ₁₀ as these are not GHGs.		
201	PG&E	A06	P3	D3b	Percent annual NET kWh	D3: Depth of interventions per building	Indicator	Average percent energy savings (kWh) per project building or facility	Percent annual net kWh per project building or facility	Public Sector (P)	N/A - Indicator	N/A - Indicator	N/A - Indicator	N/A - Indicator	N/A - Indicator	Numerator: Total savings claimed for properties Denominator: Number of participating properties			
202	PG&E	A06	P3	D3b	Percent annual NET kWh	D3: Depth of interventions per building	Indicator	Average percent energy savings (kWh) per project building or facility	Percent annual net kWh per project building or facility	Public Sector (P)	N/A - Indicator	N/A - Indicator	N/A - Indicator	N/A - Indicator	N/A - Indicator	Numerator: Total savings claimed for properties Denominator: Number of participating properties			
203	PG&E	A06	P3	D3b	Percent annual NET Therm	D3: Depth of interventions per building	Indicator	Average percent energy savings (Therm) per project building or facility	Percent annual net Therm per project building or facility	Public Sector (P)	N/A - Indicator	N/A - Indicator	N/A - Indicator	N/A - Indicator	N/A - Indicator	Numerator: Total savings claimed for properties Denominator: Number of participating properties			
204	PG&E	A06	P3	D5	Annual NET kWh	D5: Depth of interventions: Per floor area	Indicator	Average annual net energy savings (kWh, low therm) per project building (four floor plan area)	Average annual net kWh savings per project building (four floor plan area)	Public Sector (P)	N/A - Indicator	N/A - Indicator	N/A - Indicator	N/A - Indicator	N/A - Indicator	Numerator: Total down stream savings (kWh, low therm) per project building (four floor plan area) Denominator: Total number of service properties (average square footage of property)			

Attachment 1: Metrics Compliance Filing

Index	PA Page	ATA Order	Method Code	Units of Measurement	Metric Type	Metric/Indicator	Business Plan/ATA Description	Metric	Sector	Baseline #	Baseline Diatom	Short Term Annual Targets (2018-2020)			Long Term Annual Target (2024-2025)	Methodology	Key Definitions	Proxy Explanation
												2018 Target	2019 Target	2020 Target				
205	RG&E A06	P3	D5	Annual NET kWh	DS: Depth of interventions: Per square foot	Indicator	Average annual net kW savings (kWh, low therms) per building floor plan area	Average annual net kW savings per project building floor plan area	Public Sector (P)	N/A - Indicator	N/A - Indicator	N/A - Indicator	N/A - Indicator	N/A - Indicator	N/A - Indicator	N/A - Indicator	N/A - Indicator	N/A - Indicator
206	RG&E A06	P3	D5	Annual NET Therms	DS: Depth of interventions: Per square foot	Indicator	Average annual energy savings (kWh, MW Therms) per project building floor plan area	Average annual net MW savings per project building floor plan area	Public Sector (P)	N/A - Indicator	N/A - Indicator	N/A - Indicator	N/A - Indicator	N/A - Indicator	N/A - Indicator	N/A - Indicator	N/A - Indicator	N/A - Indicator
207	RG&E A06	P3	W1	Annual NET kW	Water	Indicator	Average annual energy savings (kWh, MW Therms) per annual flow through project water/wastewater facilities	Average annual net MW savings per annual flow through project water/wastewater facilities	Public Sector (P)	N/A - Indicator	N/A - Indicator	N/A - Indicator	N/A - Indicator	N/A - Indicator	N/A - Indicator	N/A - Indicator	N/A - Indicator	N/A - Indicator
208	RG&E A05	P3	W1	Annual NET kWh	Water	Indicator	Average annual energy savings (kWh, MW Therms) per annual flow through project water/wastewater facilities	Average annual net MW savings per annual flow through project water/wastewater facilities	Public Sector (P)	N/A - Indicator	N/A - Indicator	N/A - Indicator	N/A - Indicator	N/A - Indicator	N/A - Indicator	N/A - Indicator	N/A - Indicator	N/A - Indicator
209	RG&E A06	P3	W1	Annual NET Therms	Water	Indicator	Average annual energy savings (kWh, MW Therms) per annual flow through project water/wastewater facilities	Average annual net MW savings per annual flow through project water/wastewater facilities	Public Sector (P)	N/A - Indicator	N/A - Indicator	N/A - Indicator	N/A - Indicator	N/A - Indicator	N/A - Indicator	N/A - Indicator	N/A - Indicator	N/A - Indicator
210	RG&E A07	P4	P1	Percent	P1: Penetration of energy programs in the eligible market of the participating population	Metric	Percent of Public Sector accounts participating in programs	Percent of Public Sector accounts participating in programs	Public Sector (P)	628	76418	0.84%	0.84%	0.84%	0.84%	0.84%	0.84%	0.84%
211	RG&E A07	P4	P2	Percent	P2: Penetration of energy programs in terms of square feet of participating population	Indicator	Percent of enclosed floor plan area (i.e., 100 of all Public Sector buildings participating in building program) + 15% of sector-wide building area, 1/5th of project building area	Percent of enclosed floor plan area (i.e., 100 of all Public Sector buildings participating in building program)	Public Sector (P)	N/A - Indicator	N/A - Indicator	N/A - Indicator	N/A - Indicator	N/A - Indicator	N/A - Indicator	N/A - Indicator	N/A - Indicator	N/A - Indicator
212	RG&E A07	P4	W2	Percent	Water	Indicator	Percent of water/wastewater flow enrolled in non-building water/wastewater programs - estimate within 1/20th of project building area	Percent of Public Sector water/wastewater flow enrolled in non-building water/wastewater programs	Public Sector (P)	N/A - Indicator	N/A - Indicator	N/A - Indicator	N/A - Indicator	N/A - Indicator	N/A - Indicator	N/A - Indicator	N/A - Indicator	N/A - Indicator

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Index	ATA Page	ATA Order	Method Code	Units of Measurement	Metric Type	Metric/Indicator	Business Plan/ATA Description	Metric	Sector	Baseline Year	Baseline Number	Baseline Num	Baseline Amount	Short Term Annual Targets (2018-2020)			M&E Term Annual Targets (2021-2023)	Long Term Annual Targets (2024-2025)	Methodology	Key Definitions	Priority Explanation
														2018 Target	2019 Target	2020 Target					
214	RS&E A07 P5	LC	PAC Levelized Cost (\$/MWh)	Cost per unit saved	Metric	Levelized cost of energy efficiency per MWh, therm and MW (use both TRC and \$/MWh)	PAC Levelized Cost (\$/MWh)	Public Sector (PI)	2016	906.05	62,254,972	69,339	906.05	906.05	81,545	770.15	PAC Cost per kWh or per therm or per MWh is (PAC Cost x Electric Benefits/Total Benefits)/Lifecycle Net kWh or (PAC Cost x Gas Benefits/Total Benefits)/Lifecycle Net therm or (PAC Cost x Electric Benefits/Total Benefits)/Lifecycle Net MW respectively. The adopted avoided cost methodology does not provide information on the avoided cost value for TRC or PAC Cost per kW.	Levelized costs are reported by sector consistent with primary sector groupings in CEI&S PROGRAM specifications.			
214	RS&E A07 P5	LC	PAC Levelized Cost (\$/MWh)	Cost per unit saved	Metric	Levelized cost of energy efficiency per MWh, therm and MW (use both TRC and \$/MWh)	PAC Levelized Cost (\$/MWh)	Public Sector (PI)	2016	0.14	62,254,972	451,512,594	0.14	0.14	0.13	0.12	PAC Cost per kWh or per therm or per MWh is (PAC Cost x Electric Benefits/Total Benefits)/Lifecycle Net kWh or (PAC Cost x Gas Benefits/Total Benefits)/Lifecycle Net therm or (PAC Cost x Electric Benefits/Total Benefits)/Lifecycle Net MW respectively.	Levelized costs are reported by sector consistent with primary sector groupings in CEI&S PROGRAM specifications.			
215	RS&E A07 P5	LC	PAC Levelized Cost (\$/MWh)	Cost per unit saved	Metric	Levelized cost of energy efficiency per MWh, therm and MW (use both TRC and \$/MWh)	PAC Levelized Cost (\$/MWh)	Public Sector (PI)	2016	0.26	122,123	125,588	0.26	0.26	0.26	0.26	PAC Cost per kWh or per therm or per MWh is (PAC Cost x Electric Benefits/Total Benefits)/Lifecycle Net kWh or (PAC Cost x Gas Benefits/Total Benefits)/Lifecycle Net therm or (PAC Cost x Electric Benefits/Total Benefits)/Lifecycle Net MW respectively.	Levelized costs are reported by sector consistent with primary sector groupings in CEI&S PROGRAM specifications.			
216	RS&E A07 P5	LC	TRC Levelized Cost (\$/MWh)	Cost per unit saved	Metric	Levelized cost of energy efficiency per MWh, therm and MW (use both TRC and \$/MWh)	TRC Levelized Cost (\$/MWh)	Public Sector (PI)	2016	1,180.36	81,624,682	69,339	1,180.36	1,180.36	1,062.22	1,009.30	TRC Cost per kWh or per therm or per MWh is (TRC Cost x Electric Benefits/Total Benefits)/Lifecycle Net kWh or (TRC Cost x Gas Benefits/Total Benefits)/Lifecycle Net therm or (TRC Cost x Electric Benefits/Total Benefits)/Lifecycle Net MW. The adopted avoided cost methodology does not provide information on the avoided cost value for TRC or PAC Cost per kW.	Levelized costs are reported by sector consistent with primary sector groupings in CEI&S PROGRAM specifications.			
217	RS&E A07 P5	LC	TRC Levelized Cost (\$/MWh)	Cost per unit saved	Metric	Levelized cost of energy efficiency per MWh, therm and MW (use both TRC and \$/MWh)	TRC Levelized Cost (\$/MWh)	Public Sector (PI)	2016	0.18	81,624,682	451,512,594	0.18	0.18	0.16	0.15	TRC Cost per kWh or per therm or per MWh is (TRC Cost x Electric Benefits/Total Benefits)/Lifecycle Net kWh or (TRC Cost x Gas Benefits/Total Benefits)/Lifecycle Net therm or (TRC Cost x Electric Benefits/Total Benefits)/Lifecycle Net MW respectively.	Levelized costs are reported by sector consistent with primary sector groupings in CEI&S PROGRAM specifications.			
218	RS&E A07 P5	LC	TRC Levelized Cost (\$/MWh)	Cost per unit saved	Metric	Levelized cost of energy efficiency per MWh, therm and MW (use both TRC and \$/MWh)	TRC Levelized Cost (\$/MWh)	Public Sector (PI)	2016	0.23	41,680	125,588	0.23	0.23	0.23	0.23	TRC Cost per kWh or per therm or per MWh is (TRC Cost x Electric Benefits/Total Benefits)/Lifecycle Net kWh or (TRC Cost x Gas Benefits/Total Benefits)/Lifecycle Net therm or (TRC Cost x Electric Benefits/Total Benefits)/Lifecycle Net MW respectively.	Levelized costs are reported by sector consistent with primary sector groupings in CEI&S PROGRAM specifications.			
219	RS&E A07 P6	F2		Investment in EE	Indicator	Total program-backed financing distributed to Public Sector customers requiring financing (i.e., loans, O&M)	Total program-backed financing distributed to Public Sector customers requiring financing	Public Sector (PI)	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Total program backed financing requiring repayment = total loan amount				

Attachment 1: Metrics Compliance Filing

Index	ATA Page	ATA Order	Method Code	Units of Measurement	Metric Type	Metric/Indicator	Business Plan/ATA Description	Metric	Sector	Baseline #	Baseline #/ATA	Baseline #/Enom	Short-Term Annual Targets (2018-2020)			Long-Term Annual Target (2024-2025)	Methodology	Key Definitions	Proxy Explanation
													2018 Target	2019 Target	2020 Target				
220	PG&E A07	P7	B3	Percent	Public Sector Benchmarking Penetration Calendar Year	Metric	Percent of Public Sector Buildings with current benchmark	Percent of Public Sector buildings with current benchmark	Public Sector (P)	2016	472	76418	0.89%	1.07%	1.28%	1.53%	Numerator: Number of public sector buildings benchmarked on portfolio Denominator: total number of public sector unique account and premise IDs	This metric includes buildings benchmarked within the calendar year	AGE used the number of unique account on the building stock and public sector account and premise IDs to report this metric.
221	PG&E A07	P7	E14	Btu	Energy Intensity of public sector building	Metric	Average energy use intensity of all Public Sector buildings	Average energy use intensity of all Public Sector buildings	Public Sector (P)	2016	547,207,882	76418	547,207,882	547,207,882	513,952,488.18	Numerator: Total sector-wide energy use in Btu Denominator: Number of unique public sector account and premise IDs			
222	PG&E A07	P7	B4	Percent	Public Sector Benchmarking Penetration Calendar Year	Indicator	Percent of floorplan area of all Public Sector buildings with current benchmark	Percent of floorplan area of all Public Sector buildings with current benchmark	Public Sector (P)	N/A - Indicator	N/A - Indicator	N/A - Indicator	N/A - Indicator	N/A - Indicator	N/A - Indicator	N/A - Indicator	This metric includes buildings benchmarked within the calendar year		
223	PG&E A08	In1	S1	kW	S1: Energy Savings	Metric	First year annualized and lifecycle ex-ante (pre-evaluation) electric, and demand savings (gross and net) in industrial sector	First year annual kW gross	Industrial (I)	2016	10,546	N/A	15,740	16,234	11,046	Baseline data is reported consistent with primary sector groups in CE DARS. Report 1: Targets were set using the 2018 Potential and Goal Study, consistent with CHUC adopted goals in D.17-09-025.			
224	PG&E A08	In1	S1	kW	S1: Energy Savings	Metric	First year annualized and lifecycle ex-ante (pre-evaluation) gas, electric, and demand savings (gross and net) in industrial sector	First year annual kW net	Industrial (I)	2016	7,683	N/A	11,675	12,021	9,337	Baseline data is reported consistent with primary sector groups in CE DARS. Report 1: Targets were set using the 2018 Potential and Goal Study, consistent with CHUC adopted goals in D.17-09-025.			
225	PG&E A08	In1	S1	kWh	S1: Energy Savings	Metric	First year annualized and lifecycle ex-ante (pre-evaluation) gas, electric, and demand savings (gross and net) in industrial sector	First year annual kWh gross	Industrial (I)	2016	48,200,588	N/A	113,151,759	107,092,877	66,704,019	Baseline data is reported consistent with primary sector groups in CE DARS. Report 1: Targets were set using the 2018 Potential and Goal Study, consistent with CHUC adopted goals in D.17-09-025.			
226	PG&E A08	In1	S1	kWh	S1: Energy Savings	Metric	First year annualized and lifecycle ex-ante (pre-evaluation) gas, electric, and demand savings (gross and net) in industrial sector	First year annual kWh net	Industrial (I)	2016	37,854,341	N/A	81,680,261	77,541,577	55,191,746	Baseline data is reported consistent with primary sector groups in CE DARS. Report 1: Targets were set using the 2018 Potential and Goal Study, consistent with CHUC adopted goals in D.17-09-025.			
227	PG&E A08	In1	S1	Therm	S1: Energy Savings	Metric	First year annualized and lifecycle ex-ante (pre-evaluation) gas, electric, and demand savings (gross and net) in industrial sector	First year annual Therms gas	Industrial (I)	2016	3,038,179	N/A	4,536,105	4,911,927	9,266,394	Baseline data is reported consistent with primary sector groups in CE DARS. Report 1: Targets were set using the 2018 Potential and Goal Study, consistent with CHUC adopted goals in D.17-09-025.			
228	PG&E A08	In1	S1	Therm	S1: Energy Savings	Metric	First year annualized and lifecycle ex-ante (pre-evaluation) gas, electric, and demand savings (gross and net) in industrial sector	First year annual Therms net	Industrial (I)	2016	2,127,794	N/A	4,317,835	4,601,312	7,701,714	Baseline data is reported consistent with primary sector groups in CE DARS. Report 1: Targets were set using the 2018 Potential and Goal Study, consistent with CHUC adopted goals in D.17-09-025.			

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Index	PA Page	ATA Order	Method Code	Units of Measurement	Metric Type	Metric/Indicator	Business Plan/ATA Description	Metric	Sector	Baseline #	Baseline Date	Short-Term Annual Targets (2018-2020)			Long-Term Annual Targets (2021-2023)	Key Definitions	Privacy Explanation		
												2018 Target	2019 Target	2020 Target					
229	PG&E A08	In1	S1	kW	S1: Energy Savings	Metric	First year annualized and lifecycle ex-ante (pre-evaluation) gas, electric, and demand savings (gross and net) in industrial sector	lifecycle ex-ante gas	Industrial (I)	2016	N/A	112,273	114,790	116,006	102,739	78,689	Baseline data is reported consistent with primary sector groups in CEEDAS PROGRAM specification and aligns with achievements reported in 2016 Annual Report. Targets were set using the 2018 Potential and Goals Study, consistent with CHUC adopted goals in 0.17-09-025.	None	
230	PG&E A08	In1	S1	kW	S1: Energy Savings	Metric	First year annualized and lifecycle ex-ante (pre-evaluation) gas, electric, and demand savings (gross and net) in industrial sector	lifecycle ex-ante net	Industrial (I)	2016	N/A	81,474	83,300	84,183	74,555	57,103	None	Baseline data is reported consistent with primary sector groups in CEEDAS PROGRAM specification and aligns with achievements reported in 2016 Annual Report. Targets were set using the 2018 Potential and Goals Study, consistent with CHUC adopted goals in 0.17-09-025.	None
231	PG&E A08	In1	S1	kWh	S1: Energy Savings	Metric	First year annualized and lifecycle ex-ante (pre-evaluation) gas, electric, and demand savings (gross and net) in industrial sector	lifecycle ex-ante gas	Industrial (I)	2016	N/A	1,007,410,869	975,964,629	953,111,406	794,489,219	593,874,118	None	Baseline data is reported consistent with primary sector groups in CEEDAS PROGRAM specification and aligns with achievements reported in 2016 Annual Report. Targets were set using the 2018 Potential and Goals Study, consistent with CHUC adopted goals in 0.17-09-025.	None
232	PG&E A08	In1	S1	kWh	S1: Energy Savings	Metric	First year annualized and lifecycle ex-ante (pre-evaluation) gas, electric, and demand savings (gross and net) in industrial sector	lifecycle ex-ante net	Industrial (I)	2016	N/A	774,450,010	751,300,634	732,707,141	610,750,508	465,545,516	None	Baseline data is reported consistent with primary sector groups in CEEDAS PROGRAM specification and aligns with achievements reported in 2016 Annual Report. Targets were set using the 2018 Potential and Goals Study, consistent with CHUC adopted goals in 0.17-09-025.	None
233	PG&E A08	In1	S1	Therm	S1: Energy Savings	Metric	First year annualized and lifecycle ex-ante (pre-evaluation) gas, electric, and demand savings (gross and net) in industrial sector	lifecycle ex-ante Therm gross	Industrial (I)	2016	N/A	62,859,441	64,858,972	68,065,615	110,850,801	128,400,086	None	Baseline data is reported consistent with primary sector groups in CEEDAS PROGRAM specification and aligns with achievements reported in 2016 Annual Report. Targets were set using the 2018 Potential and Goals Study, consistent with CHUC adopted goals in 0.17-09-025.	None
234	PG&E A08	In1	S1	Therm	S1: Energy Savings	Metric	First year annualized and lifecycle ex-ante (pre-evaluation) gas, electric, and demand savings (gross and net) in industrial sector	lifecycle ex-ante Therm net	Industrial (I)	2016	N/A	44,020,720	45,424,095	47,620,503	77,624,246	89,300,829	None	Baseline data is reported consistent with primary sector groups in CEEDAS PROGRAM specification and aligns with achievements reported in 2016 Annual Report. Targets were set using the 2018 Potential and Goals Study, consistent with CHUC adopted goals in 0.17-09-025.	None
235	PG&E A08	In2	G	MT CO2e/yr	GHG	Metric	Greenhouse gases (MT CO2e) net with savings for fuel for in annual basis	CO2e net with savings for fuel for in annual	Industrial (I)	2016	N/A	37,815	36,800	35,916	31,130	25,564	Includes CO2e net K09 and PM10 as more strict equivalents.		
236	PG&E A08	In3	P1L	Percent	Participation of energy efficiency programs in eligible market	Metric	Percent of participation relative to eligible population for small, medium and large customers	Percent of participation relative to eligible population for large customers	Industrial (I)	2016	170	7.55%	7.55%	7.20%	7.07%	None	Participation is defined as the first instance of participation. Large customers are defined as those using more than 100,000 kWh or 250,000 therms annually.		
237	PG&E A08	In3	P1M	Percent	Participation of energy efficiency programs in eligible market	Metric	Percent of participation relative to eligible population for medium and large customers	Percent of participation relative to eligible population for medium customers	Industrial (I)	2016	289	2.81%	2.81%	2.76%	2.65%	None	Participation is defined as the first instance of participation. Medium customers are defined as those using between 40,000-500,000 kWh or 10,000-250,000 therms annually.		

Attachment 1: Metrics Compliance Filing

Index	ATA Page	ATA Order	Method Code	Units of Measurement	Metric Type	Metric/Indicator	Business Plan/ATA Description	Metric	Sector	Baseline #	Baseline #	Short Term Annual Targets (2018-2020)			Baseline Demand	M&E Term Annual Targets (2021-2023)	Long Term Annual Targets (2024-2025)	Methodology	Key Definitions	Priority Explanation
												2018 Target	2019 Target	2020 Target						
218	PG&E A08	In3	P15	Percent	New participation	Indicator	Percent of participation relative to eligible population, medium and large customers	Industrial (I)	2016	0.61%	0.67%	0.67%	0.67%	40201	0.64%	0.63%	Numerator: Number of participating small customers (defined by unique combination of account and premise ID) in the eligible market. Denominator: Total number of unique combinations of account and premise ID in the sector.	Participation is defined as the first use of participation. Small customers are defined as those with less than 40,000 kWh or 15,000 therms annually.		
219	PG&E A08	In4	P15	Percent	New participation	Indicator	Percent of customers that received an incentive for participating in the past three years, medium and large customer categories	Industrial (I)	N/A - Indicator	N/A - Indicator	N/A - Indicator	N/A - Indicator	N/A - Indicator	N/A - Indicator	N/A - Indicator	N/A - Indicator	N/A - Indicator	Numerator: Annual number of large accounts that have not received an incentive for participating in the past three years. Denominator: Total number of unique combinations of account and premise ID in the sector.	Large customers are defined as those with greater than or equal to 500,000 kWh or 250,000 therms annually.	
220	PG&E A08	In4	P15	Percent	New participation	Indicator	Percent of customers that received an incentive for participating in the past three years, medium and large customer categories	Industrial (I)	N/A - Indicator	N/A - Indicator	N/A - Indicator	N/A - Indicator	N/A - Indicator	N/A - Indicator	N/A - Indicator	N/A - Indicator	N/A - Indicator	Numerator: Annual number of medium industrial participants (by account) that have not received an incentive for participating in the past three years. Denominator: Total number of unique combinations of account and premise ID in the sector.	Medium customers are defined as those with between 40,000-500,000 kWh or 10,000-250,000 therms annually.	
221	PG&E A08	In4	P15	Percent	New participation	Indicator	Percent of customers that received an incentive for participating in the past three years, medium and large customer categories	Industrial (I)	N/A - Indicator	N/A - Indicator	N/A - Indicator	N/A - Indicator	N/A - Indicator	N/A - Indicator	N/A - Indicator	N/A - Indicator	N/A - Indicator	Numerator: Annual number of small industrial participants (by account) that have not received an incentive for participating in the past three years. Denominator: Total number of unique combinations of account and premise ID in the sector.	Small customers are defined as those with less than 40,000 kWh or 15,000 therms annually.	
222	PG&E A08	In5	LC	\$/AW	Cost per unit saved	Metric	Levelized cost of energy efficiency per kWh, therm and MW for both TRC and PAC	Industrial (I)	2016	296.84 \$	296.84 \$	296.84 \$	296.84 \$	53,710 \$	281.99 \$	281.99 \$	281.99 \$	Levelized cost per kWh, therm or MW for TRC and PAC. Numerator: Total cost of TRC and PAC. Denominator: Total kWh, therm or MW. Levelized costs are reported by sector consistent with primary sector groupings in CEDARS PROGRAM specifications.		
223	PG&E A08	In5	LC	\$/AW	Cost per unit saved	Metric	Levelized cost of energy efficiency per kWh, therm and MW for both TRC and PAC	Industrial (I)	2016	0.05 \$	0.05 \$	0.05 \$	0.05 \$	317,600.108 \$	0.048 \$	0.048 \$	0.048 \$	Levelized costs are reported by sector consistent with primary sector groupings in CEDARS PROGRAM specifications.		
224	PG&E A08	In5	LC	\$/therm	Cost per unit saved	Metric	Levelized cost of energy efficiency per kWh, therm and MW for both TRC and PAC	Industrial (I)	2016	0.37 \$	0.37 \$	0.37 \$	0.37 \$	203,386.609 \$	0.35 \$	0.35 \$	0.35 \$	Levelized costs are reported by sector consistent with primary sector groupings in CEDARS PROGRAM specifications.		

Attachment 1: Metrics Compliance Filing

Index	PA Page	ATA Order	ATA Code	Method Code	Units of Measurement	Metric Type	Metric/Indicator	Business Plan/AT A Description	Metric	Sector	Baseline Year	Baseline Number	Baseline Num	Baseline Emon	Short Term Annual Targets (2018-2020)			Long Term Annual Targets (2021-2023)	Long Term Annual Target (2024-2025)	Methodology	Key Definitions	Priority Explanation
															2018 Target	2019 Target	2020 Target					
245	PG&E A08	In5	LC	SAW	Cost per unit saved	Metric	Levelized cost of energy efficiency per kWh, therm efficiency per kWh, therm efficiency per kWh (SAW) per kWh (TREC and PAC)	TREC Levelized Cost (\$/kW)	Industrial (I)	2016	472.34	472.34	472.34	\$	472.34	\$	449.30	\$	Levelized costs are reported by sector consistent with primary sector groupings in CEI&S PROGRAM specifications.			
246	PG&E A08	In5	LC	SAW	Cost per unit saved	Metric	Levelized cost of energy efficiency per kWh, therm efficiency per kWh (SAW) per kWh (TREC and PAC)	TREC Levelized Cost (\$/kW)	Industrial (I)	2016	0.08	0.08	0.08	\$	0.08	\$	0.076	\$	Levelized costs are reported by sector consistent with primary sector groupings in CEI&S PROGRAM specifications.			
247	PG&E A08	In5	LC	S/therm	Cost per unit saved	Metric	Levelized cost of energy efficiency per kWh, therm efficiency per kWh (SAW) per kWh (TREC and PAC)	TREC Levelized Cost (\$/therm)	Industrial (I)	2016	0.59	0.59	0.59	\$	0.59	\$	0.56	\$	Levelized costs are reported by sector consistent with primary sector groupings in CEI&S PROGRAM specifications.			
248	PG&E A08	In6	S2		Percent first year annual MW gross	Metric	Reduction in consumption (proposed by SCE and SIOG&E)	Percent first year annual MW gross	Industrial (I)	2016	0.15%	0.23%	0.24%		0.24%		0.16%		Defined as savings as a percentage of total sectoral usage from PG&E database through 2025 in accordance with CEI&S PROGRAM specifications.			
249	PG&E A08	In6	S2		Percent first year annual MW net	Metric	Reduction in consumption (proposed by SCE and SIOG&E)	Percent first year annual MW net	Industrial (I)	2016	0.11%	0.17%	0.17%		0.17%		0.14%		Defined as savings as a percentage of total sectoral usage from PG&E database through 2025 in accordance with CEI&S PROGRAM specifications.			
250	PG&E A08	In6	S2		Percent first year annual MW gross	Metric	Reduction in consumption (proposed by SCE and SIOG&E)	Percent first year annual MW gross	Industrial (I)	2016	0.89%	1.13%	1.10%		1.10%		0.68%		Defined as savings as a percentage of total sectoral usage from PG&E database through 2025 in accordance with CEI&S PROGRAM specifications.			
251	PG&E A08	In6	S2		Percent first year annual MW net	Metric	Reduction in consumption (proposed by SCE and SIOG&E)	Percent first year annual MW net	Industrial (I)	2016	0.38%	0.82%	0.80%		0.80%		0.57%		Defined as savings as a percentage of total sectoral usage from PG&E database through 2025 in accordance with CEI&S PROGRAM specifications.			

Attachment 1: Metrics Compliance Filing

Index	PA Page	ATA Order	ATA Code	Method Code	Units of Measurement	Metric Type	Metric/Indicator	Business Plan/ATA Description	Metric	Sector	Baseline #	Baseline #/Year	Short Term Annual Targets (2018-2020)			Baseline Demand	Metric Definition	Methodology	Key Definitions	Priority Explanation	
													2018 Target	2019 Target	2020 Target						
222	PG&E A08	in6	S2	Percent first year annual Thermo gas	S2: Percent Overall Sectoral Savings	Metric	Reduction in consumption (proposed by SCE and SOG&E)	Percent first year annual Thermo gas	Industrial (I)	2016	3,038,179	0.07%	0.11%	0.11%	0.12%	4,144,958,996	0.22%	0.19%	0.12%	Defined as savings as a percentage of sectoral usage, based on conversations between PA8 and ED.	Numerator = Metric IN 1 from PG&E database Projected usage remains steady through 2025 in accordance with projections from CEC sales data presented in the 2018 Potential and Goals Study, "MGR" case.
223	PG&E A08	in6	S2	Percent first year annual Thermo gas	S2: Percent Overall Sectoral Savings	Metric	Reduction in consumption (proposed by SCE and SOG&E)	Percent first year annual Thermo gas	Industrial (I)	2016	2,127,794	0.05%	0.10%	0.11%	0.11%	4,144,958,996	0.19%	0.16%	0.11%	Defined as savings as a percentage of sectoral usage, based on conversations between PA8 and ED.	Numerator = Metric IN 1 from PG&E database Projected usage remains steady through 2025 in accordance with projections from CEC sales data presented in the 2018 Potential and Goals Study, "MGR" case.
224	PG&E A08	in6	S2	Percent lifecycle ex-ante MW net	S2: Percent Overall Sectoral Savings	Metric	Reduction in consumption (proposed by SCE and SOG&E)	Percent lifecycle ex-ante MW net	Industrial (I)	2016	75,129	1.09%	1.60%	1.60%	6,916,777	1.48%	1.48%	1.68%	1.48%	Defined as savings as a percentage of sectoral usage, based on conversations between PA8 and ED.	Numerator = Metric IN 1 from PG&E database Projected usage remains steady through 2025 in accordance with projections from CEC sales data presented in the 2018 Potential and Goals Study, "MGR" case.
225	PG&E A08	in6	S2	Percent lifecycle ex-ante MW net	S2: Percent Overall Sectoral Savings	Metric	Reduction in consumption (proposed by SCE and SOG&E)	Percent lifecycle ex-ante MW net	Industrial (I)	2016	53,710	0.78%	1.18%	1.20%	6,916,777	1.08%	1.08%	1.22%	0.83%	Defined as savings as a percentage of sectoral usage, based on conversations between PA8 and ED.	Numerator = Metric IN 1 from PG&E database Projected usage remains steady through 2025 in accordance with projections from CEC sales data presented in the 2018 Potential and Goals Study, "MGR" case.
226	PG&E A08	in6	S2	Percent lifecycle ex-ante MW net	S2: Percent Overall Sectoral Savings	Metric	Reduction in consumption (proposed by SCE and SOG&E)	Percent lifecycle ex-ante MW net	Industrial (I)	2016	479,186,678	4.40%	10.33%	10.33%	9,742,274,838	9.78%	8.15%	9.78%	6.09%	Defined as savings as a percentage of sectoral usage, based on conversations between PA8 and ED.	Numerator = Metric IN 1 from PG&E database Projected usage remains steady through 2025 in accordance with projections from CEC sales data presented in the 2018 Potential and Goals Study, "MGR" case.
227	PG&E A08	in6	S2	Percent lifecycle ex-ante MW net	S2: Percent Overall Sectoral Savings	Metric	Reduction in consumption (proposed by SCE and SOG&E)	Percent lifecycle ex-ante MW net	Industrial (I)	2016	31,656,109	3.26%	7.94%	7.75%	9,742,274,838	7.52%	6.27%	7.52%	4.68%	Defined as savings as a percentage of sectoral usage, based on conversations between PA8 and ED.	Numerator = Metric IN 1 from PG&E database Projected usage remains steady through 2025 in accordance with projections from CEC sales data presented in the 2018 Potential and Goals Study, "MGR" case.
228	PG&E A08	in6	S2	Percent lifecycle ex-ante MW net	S2: Percent Overall Sectoral Savings	Metric	Reduction in consumption (proposed by SCE and SOG&E)	Percent lifecycle ex-ante MW net	Industrial (I)	2016	42,101,230	1.02%	1.52%	1.50%	4,144,958,996	1.64%	3.10%	1.64%	3.10%	Defined as savings as a percentage of sectoral usage, based on conversations between PA8 and ED.	Numerator = Metric IN 1 from PG&E database Projected usage remains steady through 2025 in accordance with projections from CEC sales data presented in the 2018 Potential and Goals Study, "MGR" case.
229	PG&E A08	in6	S2	Percent lifecycle ex-ante MW net	S2: Percent Overall Sectoral Savings	Metric	Reduction in consumption (proposed by SCE and SOG&E)	Percent lifecycle ex-ante MW net	Industrial (I)	2016	293,38,609	0.71%	1.80%	1.10%	4,144,958,996	1.13%	1.87%	1.13%	2.17%	Defined as savings as a percentage of sectoral usage, based on conversations between PA8 and ED.	Numerator = Metric IN 1 from PG&E database Projected usage remains steady through 2025 in accordance with projections from CEC sales data presented in the 2018 Potential and Goals Study, "MGR" case.

Attachment 1: Metrics Compliance Filing

Index	EPA PA	ATA Order	Method Code	Units of Measurement	Metric Type	Metric/Indicator	Business Plan/ATA Description	Metric	Sector	Baseline Year	Baseline Number	Baseline Date	Short-Term Annual Targets (2018-2020)			Long-Term Annual Targets (2021-2023)	Key Definitions	Privacy Explanation		
													2018 Target	2019 Target	2020 Target					
200	PG&E	A09	A1	S1	Energy Savings	First year and lifecycle ex ante (pre-evaluation) annualized gas, electric, and demand savings in agricultural sector, grams and net	First year annual kW (pre-evaluation)	(A)	2016	23,351	N/A	N/A	10,350	11,373	12,070	12,280	12,556	Baseline data is reported consistent with primary sector groups in CE DARS. PROGRAM specification and aligns with achievements reported in 2016 Annual Report. Targets were set using the 2018 Potential and Goals Study, consistent with CHUC adopted goals in D.17-09-025.	None	
201	PG&E	A09	A1	S1	Energy Savings	First year and lifecycle ex ante (pre-evaluation) annualized gas, electric, and demand savings in agricultural sector, grams and net	First year annual kW (pre-evaluation)	(A)	2016	17,181	N/A	N/A	8,720	9,474	9,998	10,221	10,256	None	Baseline data is reported consistent with primary sector groups in CE DARS. PROGRAM specification and aligns with achievements reported in 2016 Annual Report. Targets were set using the 2018 Potential and Goals Study, consistent with CHUC adopted goals in D.17-09-025.	None
202	PG&E	A09	A1	S1	Energy Savings	First year and lifecycle ex ante (pre-evaluation) annualized gas, electric, and demand savings in agricultural sector, grams and net	First year annual MWh (pre-evaluation)	(A)	2016	76,307,283	N/A	N/A	64,751,466	71,556,603	75,944,441	79,886,435	67,750,780	None	Baseline data is reported consistent with primary sector groups in CE DARS. PROGRAM specification and aligns with achievements reported in 2016 Annual Report. Targets were set using the 2018 Potential and Goals Study, consistent with CHUC adopted goals in D.17-09-025.	None
203	PG&E	A09	A1	S1	Energy Savings	First year and lifecycle ex ante (pre-evaluation) annualized gas, electric, and demand savings in agricultural sector, grams and net	First year annual MWh (pre-evaluation)	(A)	2016	54,045,559	N/A	N/A	51,037,888	52,750,891	58,743,662	57,946,794	56,179,829	None	Baseline data is reported consistent with primary sector groups in CE DARS. PROGRAM specification and aligns with achievements reported in 2016 Annual Report. Targets were set using the 2018 Potential and Goals Study, consistent with CHUC adopted goals in D.17-09-025.	None
204	PG&E	A09	A1	S1	Energy Savings	First year and lifecycle ex ante (pre-evaluation) annualized gas, electric, and demand savings in agricultural sector, grams and net	First year annual Therms (pre-evaluation)	(A)	2016	1,113,179	N/A	N/A	380,106	341,380	333,186	436,144	370,685	None	Baseline data is reported consistent with primary sector groups in CE DARS. PROGRAM specification and aligns with achievements reported in 2016 Annual Report. Targets were set using the 2018 Potential and Goals Study, consistent with CHUC adopted goals in D.17-09-025.	None
205	PG&E	A09	A1	S1	Energy Savings	First year and lifecycle ex ante (pre-evaluation) annualized gas, electric, and demand savings in agricultural sector, grams and net	First year annual Therms (pre-evaluation)	(A)	2016	871,717	N/A	N/A	417,288	410,246	411,019	481,756	384,018	None	Baseline data is reported consistent with primary sector groups in CE DARS. PROGRAM specification and aligns with achievements reported in 2016 Annual Report. Targets were set using the 2018 Potential and Goals Study, consistent with CHUC adopted goals in D.17-09-025.	None
206	PG&E	A09	A1	S1	Energy Savings	First year and lifecycle ex ante (pre-evaluation) annualized gas, electric, and demand savings in agricultural sector, grams and net	Lifecycle ex ante MWh (pre-evaluation)	(A)	2016	174,262	N/A	N/A	79,342	86,085	91,509	92,949	95,039	None	Baseline data is reported consistent with primary sector groups in CE DARS. PROGRAM specification and aligns with achievements reported in 2016 Annual Report. Targets were set using the 2018 Potential and Goals Study, consistent with CHUC adopted goals in D.17-09-025.	None
207	PG&E	A09	A1	S1	Energy Savings	First year and lifecycle ex ante (pre-evaluation) annualized gas, electric, and demand savings in agricultural sector, grams and net	Lifecycle ex ante MWh (pre-evaluation)	(A)	2016	120,201	N/A	N/A	57,132	62,803	66,728	67,808	69,333	None	Baseline data is reported consistent with primary sector groups in CE DARS. PROGRAM specification and aligns with achievements reported in 2016 Annual Report. Targets were set using the 2018 Potential and Goals Study, consistent with CHUC adopted goals in D.17-09-025.	None
208	PG&E	A09	A1	S1	Energy Savings	First year and lifecycle ex ante (pre-evaluation) annualized gas, electric, and demand savings in agricultural sector, grams and net	Lifecycle ex ante MWh (pre-evaluation)	(A)	2016	688,948,255	N/A	N/A	539,712,016	651,360,826	695,260,259	676,339,475	620,166,676	None	Baseline data is reported consistent with primary sector groups in CE DARS. PROGRAM specification and aligns with achievements reported in 2016 Annual Report. Targets were set using the 2018 Potential and Goals Study, consistent with CHUC adopted goals in D.17-09-025.	None

Attachment 1: Metrics Compliance Filing

Index	PA Page	ATA Order	Method Code	Units of Measurement	Metric Type	Metric/Indicator	Business Plan/ATA Description	Metric	Sector	Baseline #	Baseline # & Year	Short Term Annual Targets (2018-2020)			Baseline Diagram	Key Definitions	Methodology	Prevalence Explanation
												2018 Target	2019 Target	2020 Target				
269	PG&E A09 A1	S1	kWh	S1: Energy Savings	Metric	First year and lifecycle ex ante (pre-evaluation) greenhouse gas emissions from agricultural sector, agricon and net	Lifecycle ex ante (pre-evaluation) greenhouse gas emissions from agricultural sector, agricon and net	(A)	2016	481,755,907	426,280,081	471,133,259	500,004,117	N/A	486,410,730	446,026,483	None	None
270	PG&E A09 A1	S1	Therm	S1: Energy Savings	Metric	First year and lifecycle ex ante (pre-evaluation) greenhouse gas emissions from agricultural sector, agricon and net	Lifecycle ex ante (pre-evaluation) greenhouse gas emissions from agricultural sector, agricon and net	(A)	2016	10,192,313	3,279,356	3,108,819	3,088,841	N/A	3,971,802	5,196,271	None	None
271	PG&E A09 A1	S1	Therm	S1: Energy Savings	Metric	First year and lifecycle ex ante (pre-evaluation) greenhouse gas emissions from agricultural sector, agricon and net	Lifecycle ex ante (pre-evaluation) greenhouse gas emissions from agricultural sector, agricon and net	(A)	2016	7,013,911	2,580,024	2,434,478	2,418,814	N/A	3,110,270	4,005,529	None	None
272	PG&E A09 A2	G	MT CO2e/yr	GHS	Metric	Greenhouse gases (MT CO2e) Net kWh savings reported on an annual basis	CO2e equivalents of annual kWh savings	(A)	2016	24,977	23,213	23,366	26,218	N/A	26,305	23,532	Includes CO2 but not CH4 and PM10 as these are not GHG equivalents.	Calculated using CET, and reported by sector consistent with primary sector groupings in CE DARS PROGRAM Specification.
273	PG&E A09 A3	P-Particip	Percent	P1: Penetration of energy efficiency programs in the eligible market: Percent of Participation	Metric	Percent of participation relative to eligible population for small, medium and large customers	Percent of participation relative to eligible population for large customers	(A)	2016	7.9%	7.9%	7.9%	7.9%	3381	7.9%	7.9%	Participation is defined as the first instance of participation. Medium customers are defined as those using greater than or equal to 500,000 kWh or 250,000 therms annually.	Numerator: Number of participating large customers (defined by unique combination of account and premise ID) Denominator: Total number of large customers in the sector (defined by unique combination of account and premise ID)
274	PG&E A09 A3	P-Particip	Percent	P1: Penetration of energy efficiency programs in the eligible market: Percent of Participation	Metric	Percent of participation relative to eligible population for small, medium and large customers	Percent of participation relative to eligible population for medium customers	(A)	2016	3.0%	3.0%	3.0%	3.0%	3099	3.0%	3.0%	Participation is defined as the first instance of participation. Medium customers are defined as those who use less than 40,000 kWh or 10,000 therms annually.	Numerator: Number of participating medium customers (defined by unique combination of account and premise ID) Denominator: Total number of medium customers in the sector (defined by unique combination of account and premise ID)
275	PG&E A09 A3	P-Particip	Percent	P1: Penetration of energy efficiency programs in the eligible market: Percent of Participation	Metric	Percent of participation relative to eligible population for small, medium and large customers	Percent of participation relative to eligible population for small customers	(A)	2016	0.2%	0.2%	0.2%	0.2%	81390	0.2%	0.2%	Participation is defined as the first instance of participation. Small customers are defined as those who use less than 40,000 kWh or 10,000 therms annually.	Numerator: Number of participating small customers (defined by unique combination of account and premise ID) Denominator: Total number of small customers in the sector (defined by unique combination of account and premise ID)
276	PG&E A09 A4	LC	\$/AW	Cost per unit saved	Metric	Levelized cost of energy (LCOE) and levelized cost of storage (LCOES)	Levelized cost of energy (LCOE) and levelized cost of storage (LCOES)	(A)	2016	\$ 175.04	\$ 175.04	\$ 175.04	\$ 175.04	\$ 175.04	\$ 166.29	\$ 166.29	Levelized costs are reported by sector consistent with primary sector groupings in CE DARS PROGRAM Specification.	PAC Cost per kWh or per therm or per MW (PAC Cost x Electric Intensity/Total Capacity) or PAC Cost x Gas Intensity/Total Capacity (PAC Cost x Electric Intensity or Gas Intensity) Net therm or PAC Intensity (PAC Intensity Net kWh or PAC Intensity Net therm or PAC Intensity Net MW) respectively

Attachment 1: Metrics Compliance Filing

Index	PA Page	ATA Order	Method Code	Units of Measurement	Metric Type	Metric/Indicator	Business Plan/ATA Description	Metric	Sector	Baseline #	Baseline # & Year	Short-Term Annual Targets (2018-2020)			Baseline Demand	M&P Term Annual Targets (2021-2023)	Long-Term Annual Targets (2024-2025)	Methodology	Key Definitions	Primary Explanation
												2018 Target	2019 Target	2020 Target						
277	RS&E A09	A4	LC	\$/kWh	Cost per unit saved	Metric	Levelized cost of energy efficiency per kWh, therm and MW (use both TRC and PAC)	PAC Levelized Cost (\$/kWh)	Agricultural (A)	2,109,790	2016	0.044	0.044	0.044	481,735,607	0.041	0.041	Levelized costs are reported by sector in CEDARS PROGRAM specifications.		
278	RS&E A09	A4	LC	\$/therm	Cost per unit saved	Metric	Levelized cost of energy efficiency per kWh, therm and MW (use both TRC and PAC)	PAC Levelized Cost (\$/therm)	Agricultural (A)	2,281,440	2016	0.325	0.325	0.325	7,013,911	0.309	0.309	Levelized costs are reported by sector in CEDARS PROGRAM specifications.		
279	RS&E A09	A4	LC	\$/kW	Cost per unit saved	Metric	Levelized cost of energy efficiency per kWh, therm and MW (use both TRC and PAC)	TRC Levelized Cost (\$/kW)	Agricultural (A)	4,071,778	2016	339.20	339.20	339.20	1,30,201	322.24	322.24	Levelized costs are reported by sector in CEDARS PROGRAM specifications.		
280	RS&E A09	A4	LC	\$/kWh	Cost per unit saved	Metric	Levelized cost of energy efficiency per kWh, therm and MW (use both TRC and PAC)	TRC Levelized Cost (\$/kWh)	Agricultural (A)	4,071,778	2016	0.085	0.085	0.085	481,735,607	0.080	0.080	Levelized costs are reported by sector in CEDARS PROGRAM specifications.		
281	RS&E A09	A4	LC	\$/therm	Cost per unit saved	Metric	Levelized cost of energy efficiency per kWh, therm and MW (use both TRC and PAC)	TRC Levelized Cost (\$/therm)	Agricultural (A)	4,421,075	2016	0.63	0.63	0.63	7,013,911	0.60	0.60	Levelized costs are reported by sector in CEDARS PROGRAM specifications.		
282	SW A10	CS1	S1	Net GWh	S1: Energy Savings	Metric	Net Energy Savings, GWh	Net GWh savings	Codes & Standards (CS)	N/A	2016	1,482	1,267	1,323	N/A	1,323	EM&V study	Levelized costs are reported by sector in CEDARS PROGRAM specifications.		
283	SW A10	CS1	S1	Net MWhTherm	S1: Energy Savings	Metric	Net Energy Savings, MWhTherm	Net MWhTherm savings	Codes & Standards (CS)	N/A	2016	29	49	55	N/A	55	EM&V study	Levelized costs are reported by sector in CEDARS PROGRAM specifications.		
284	SW A10	CS1	S1	Net MW	S1: Energy Savings	Metric	Net Energy Savings, MW	Net MW savings	Codes & Standards (CS)	N/A	2016	272	311	389	N/A	415	EM&V study	Levelized costs are reported by sector in CEDARS PROGRAM specifications.		
285	SW A10	CS2	1	Count	Advocacy-Building	Metric	Number of measures supported by CASE studies in rulemaking	Number of measures supported by CASE studies in rulemaking	Codes & Standards (CS)	N/A	2016	12	12	12	N/A	12	Measures supported by CASE	Baseline and targets for measures supported are for 3 year cycle rather than 5 year cycle.		
286	SW A10	CS2	2	Count	Advocacy-Building	Metric	Number of measures supported by CEC in rulemaking	Number of measures supported by CEC in rulemaking	Codes & Standards (CS)	N/A	2016	12	12	12	N/A	12	Measures adopted by CEC	Baseline and targets for measures supported are for 3 year cycle rather than 5 year cycle.		

Attachment 1: Metrics Compliance Filing

Index	PA	ATA Page	ATA Order	Method Code	Units of Measurement	Metric Type	Metric/Indicator	Business Plan/ATA Description	Metric	Sector	Baseline # & Year	Baseline Number	Baseline Num	Baseline Date	Short-Term Annual Targets (2018-2020)			Long-Term Annual Target (2024-2025)	Methodology	Key Definitions	Priority Explanation
															2018 Target	2019 Target	2020 Target				
287	SW	A10	CS3	1	Count	Advocacy-Apprentice	Metric	Number of T-20 measures supported by CASE in current cycle (for current year)	Number of T-20 measures supported by CASE studies in current cycle (for current year)	Codes & Standards (CS)	2017	5	N/A	N/A	5	10	T-20 measures supported by CASE in current cycle since 2018 was zero.	Baseline is annual. Targets for measures supported are for 3-year cycle rather than annual. Measures in current cycle since 2018 was zero.			
288	SW	A10	CS3	2	Count	Advocacy-Apprentice	Metric	Number of measures adopted by CEC in current year	Number of measures adopted by CEC in current year	Codes & Standards (CS)	2016	4	N/A	N/A	10	10	Measures adopted by CEC	Baseline is annual. Targets for measures adopted are for 3-year cycle rather than annual.			
289	SW	A10	CS4	1	Count	Advocacy-Federal	Metric	Number of federal standards adopted for which an associated (IO) to list advocated activities	Number of federal standards adopted for which an associated (IO) to list advocated activities	Codes & Standards (CS)	2016	22	N/A	N/A	21	20	Standards adopted	Baseline and targets are annual. Any federal standards based upon Title 20 that were adopted will still be included in the federal count.			
290	SW	A10	CS4	2	Count	Advocacy-Federal	Metric	Percent of federal standards adopted for which a utility advocated (supported / J DOE adopted)	Percent of federal standards adopted for which a utility advocated (supported / J DOE adopted)	Codes & Standards (CS)	2016	100%	N/A	N/A	100%	100%	# IOs supported / # DOE adopted	Baseline and targets are annual.			
291	SW	A10	CS5	1	Count	Reach Codes	Metric	The number of local government Reach Codes implemented this as a joint (IO) and (REN effort)	The number of local government Reach Codes implemented (this is a joint (IO) and (REN effort))	Codes & Standards (CS)	2016	6	N/A	N/A	25	25	Reach Codes or distances implemented	Targets are total for a three-year "fisc-24" period. The number of Reach Codes in each code will be counted by reach code rather than by jurisdiction. Associated distances will be reported from associated Reach Codes. (http://www.energy.ca.gov/title-24/2013/standards/ordnances/)			
292	SW	A11	CS6	1	Count	Compliance-Improvement	Metric	Number of training activities (classes, webinars) held, number of market actor participants by segment (e.g. building officials, builders, architects, etc.) and the total size (number of the target audience) by sector. (M) Number of training activities	Number of training activities (classes, webinars) held, number of market actor participants by segment (e.g. building officials, builders, architects, etc.) and the total size (number of the target audience) by sector. (M) Number of training activities	Codes & Standards (CS)	2017	138	N/A	N/A	138	138	Number of training activities	118 live training sessions and 20 webinars in 2017; short, mid, and long-term targets are annual			
293	SW	A11	CS6	2	Count	Compliance-Improvement	Metric	Number of training activities (classes, webinars) held, number of market actor participants by segment (e.g. building officials, builders, architects, etc.) and the total size (number of the target audience) by sector. (M) Number of participants	Number of training activities (classes, webinars) held, number of market actor participants by segment (e.g. building officials, builders, architects, etc.) and the total size (number of the target audience) by sector. (M) Number of participants	Codes & Standards (CS)	2017	3600	N/A	N/A	3600	3600	Number of participants	3000 attendees for live training and 600 attendees for webinars in 2017; short, mid, and long-term targets are annual. Attendees will be shown by major segment (e.g. building officials, architects, HEBS rated) and target size of each segment will be provided during first metrics reporting.			
294	SW	A11	CS6	3	Score	Compliance-Improvement	Metric	Increase in code knowledge pre/post training	Increase in code knowledge pre/post training	Codes & Standards (CS)	2017	20%	N/A	N/A	20%	20%	Knowledge score	Code compliance knowledge increase will be measured pre and post training for training that lasts longer than three hours (in order to preserve time for other training activities). Questions will be made available during the first metrics reporting.			

Attachment 1: Metrics Compliance Filing

Index	PA	ATA Page	ATA Order	Method Code	Units of Measurement	Metric Type	Metric Indicator	Business Plan/ATA Description	Metric	Sector	Baseline # & Year	Baseline Number	Baseline Num	Short Term Annual Targets (2018-2020)			Baseline Diagram	Prey's Explanation
														2018 Target	2019 Target	2020 Target		
295	REN	A11	CSBR	1	Percent	Compliance Improvement	The percentage increase in closed permits for building projects triggering code compliance within participating jurisdictions	Codes & Standards (CS)	2018 N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
296	REN	A11	CSBR	1	Count	Compliance Improvement	Number and percent of jurisdictions with staff participating in an Energy Policy Forum	Codes & Standards (CS)	A - Indici N/A - Indicator	N/A - Indicator	N/A - Indicator	N/A - Indicator	N/A - Indicator	N/A - Indicator	N/A - Indicator	N/A - Indicator	N/A - Indicator	
297	REN	A11	CSBR	1	Percent	Compliance Improvement	Number and percent of jurisdictions with staff participating in an Energy Policy Forum	Codes & Standards (CS)	A - Indici N/A - Indicator	N/A - Indicator	N/A - Indicator	N/A - Indicator	N/A - Indicator	N/A - Indicator	N/A - Indicator	N/A - Indicator	N/A - Indicator	
298	REN	A11	CSBR	2	Count	Compliance Improvement	Number and percent of jurisdictions receiving Energy Policy technical assistance	Codes & Standards (CS)	A - Indici N/A - Indicator	N/A - Indicator	N/A - Indicator	N/A - Indicator	N/A - Indicator	N/A - Indicator	N/A - Indicator	N/A - Indicator	N/A - Indicator	
299	REN	A11	CSBR	2	Percent	Compliance Improvement	Number and percent of jurisdictions receiving Energy Policy technical assistance	Codes & Standards (CS)	A - Indici N/A - Indicator	N/A - Indicator	N/A - Indicator	N/A - Indicator	N/A - Indicator	N/A - Indicator	N/A - Indicator	N/A - Indicator	N/A - Indicator	
300	REN	A11	CSBR	3	Count	Compliance Improvement	Buildings receiving enhanced code compliance support and assistance data to program evaluations	Codes & Standards (CS)	A - Indici N/A - Indicator	N/A - Indicator	N/A - Indicator	N/A - Indicator	N/A - Indicator	N/A - Indicator	N/A - Indicator	N/A - Indicator	N/A - Indicator	
301	PCBE	A12	WET-1	1	Count	Collaboration	Number of collaborations by Business Plan sector to jointly develop or share training materials or resources.	Number of collaborations by Business Plan sector to jointly develop or share training materials or resources.	Workforce	N/A - Indici did not occur	N/A	N/A	N/A	N/A	N/A	8	8	

1. The data in this table is based on information provided by the jurisdictions and is subject to change. The information is provided for informational purposes only and does not constitute an endorsement or approval of any program or project. The information is provided for informational purposes only and does not constitute an endorsement or approval of any program or project. The information is provided for informational purposes only and does not constitute an endorsement or approval of any program or project.

Attachment 1: Metrics Compliance Filing

Index	PA	ATA Page	ATA Order	Method Code	Units of Measurement	Metric Type	Metric/Indicator	Business Plan/ATA Description	Metric	Sector	Baseline #	Baseline Date	Short Term Annual Targets (2018-2020)			Long Term Annual Target (2024-2025)	Methodology	Key Definitions	Proxy Explanation
													2018 Target	2019 Target	2020 Target				
302	PG&E	A12	WET-2	1	Count	Penetration	Metric	Number of participants by sector	Number of participants by sector	Workforce Education and Training (WET)	N/A	N/A	6,500 Total (\$450 re and 3,020 non-re)	6,500 Total (\$450 re and 3,020 non-re)	5,500 Total (\$450 re and 3,020 non-re)	Report from class registration database.	<p>sector" refers to a specific non-residential energy efficiency training topic area (e.g., lighting, HVAC, Agriculture)</p> <p>"Participants" means aggregate class attendance, meaning that one person attending two classes throughout the year would be counted as two participants. This is an accurate measurement of audience interest per topic / sector.</p> <p>PG&E employed attendees refer since 2012 and discovered a high positive correlation (0.8) between unemployment rates in California and class attendance. PG&E has been able to identify areas of employment, but also the workload of the existing industry. In other words, when the workforce is busy, they do not attend classes. PG&E has seen that unemployment rates have fallen since 2016, which means that attendance may be an over-representation of the training participants, meaning that one person attending two classes throughout the year would be counted as one participant.</p>		
303	PG&E	A12	WET-2	1	Percentage	Penetration	Metric	Percent of participation relative to population for our curriculum	Percent of participation relative to population for our curriculum	Workforce Education and Training (WET)	3450	132380	2.60%	2.60%	2.60%	<p>None refer to 3,450 unique participants. Report from class registration database.</p> <p>Population refers to the number of 132,380 jobs in approximately Economic Mobility (EEM) reports for the largest share of advanced energy jobs in California. Also as in the Energy Efficiency Jobs in California sector, these firms support over 132,380 jobs in the advanced Energy Efficiency jobs are commensurate with population for the Energy Efficiency Jobs obtained from 2010 census.</p>	<p>"Outcome" refers to the portfolio of training programs and training materials offered by W&ET</p> <p>Eligible target population refers to energy efficiency labor workforce within each PA's service territory (W&ET's service territory population compared to that of California's population.</p> <p>Justification for targets is consistent with justification provided for metric above.</p>		
304	PG&E	A12	WET-3	1	Percentage	Diversity	Metric	Percent of total W&ET training program participants that meet the definition of disadvantaged worker	Percent of total W&ET training program participants that meet the definition of disadvantaged worker	Workforce Education and Training (WET)	N/A	N/A	60%	60%	60%	<p>The zip codes available in PG&E's database are a mix of home and commercial zip codes. For the 2019, PG&E will request home zip codes specifically.</p>			

PG&E will use the most conservative of the three methods to determine the number of participants in the program. PG&E will use the most conservative of the three methods to determine the number of participants in the program. PG&E will use the most conservative of the three methods to determine the number of participants in the program.

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Index	PA	ATA Order	Method Code	Units of Measurement	Metric Type	Metric/Indicator	Business Plan/ATA Description	Metric	Sector	Baseline Number	Baseline Date	Short-Term Annual Targets (2018-2020)			M&D Term Annual Targets (2021-2023)	Long-Term Annual Target (2024-2025)	Methodology	Key Definitions	Privacy Explanation
												2018 Target	2019 Target	2020 Target					
305	RCBE	A12	WET-3	1	Diversity	Metric	Percent of incentive dollars spent on contracts with a demonstrated commitment to provide career pathways to disadvantaged workers	Workforce Education and Training (WET)	N/A	N/A	N/A	2%	3%	5%	10%	Disadvantaged worker tracking is currently not required by PA contract terms and conditions.	Agrees 100% to program that includes modify, repair, or maintain EE equipment where the incentive is paid to contractor, distributor, or retailer of equipment. This applicability standard is adopted for all projects. The program will be on workforce standards. It excludes contracts such as those for upstream manufacturing, construction, and midstream distributor programs.		
306	RCBE	A12	WET-3	1	Diversity	Metric	Number of Career & Workforce Readiness (CWR) participants who have been employed for 12 months after receiving the training	Workforce Education and Training (WET)	N/A	N/A	N/A	N/A	N/A	N/A	N/A	CWR program does not yet exist.	Disadvantaged Workers enter the energy industry, and not technical/skill classes lead PA, RCBE, will report on this metric for the whole state.		
307	SW	A13	ETP-M1	1	Research Prioritization	Metric	Number of TPMs initiated (ign and including one technology focused pilot)	Emerging Technology (s ET)	N/A	N/A	N/A	0	6	tdb TPM*	tdb TPM*	Data for this metric will be gathered from all TPM implementers annually.	Technology priority main (TPM) are defined in the Business Plan 2.		
308	SW	A13	ETP-M2	1	Research Prioritization	Metric	Number of TPMs updated (ign and including one technology focused pilot)	Emerging Technology (s ET)	N/A	N/A	N/A	0	3	tdb TPM*	tdb TPM*	Data for this metric will be gathered from all TPM implementers annually.	Technology priority main (TPM) are defined in the Business Plan 2.		
309	SW	A13	ETP-M3	1	Projects	Metric	Number of projects awarded (ign and including one technology focused pilot)	Emerging Technology (s ET)	2016	61	projects	0	61	tdb project*	tdb project*	Data for this metric will be gathered from all TPM implementers annually.	Technology priority main (TPM) are defined in the Business Plan 2.		
310	SW	A13	ETP-M4	1	Outreach	Metric	Number of outreach events with technology developers with products <1 year from commercialization, including new technology vendors, manufacturers, and entrepreneurs. *This metric will be updated once all third party contracts have been awarded.	Emerging Technology (s ET)	2016	5	projects	0	3	tdb events*	tdb events*	Each ETP event will provide data for ETP-M4 and ETP-M5 simultaneously. *Data for this metric will be gathered from TPM implementers annually based on methodology to be determined.	Technology developers - Any organization or company that develops technology suitable for inclusion in PA incentive program. 2) "Events" - ETP Summit, webinars, and in-person meetings as proposed by ETP implementer.		
311	SW	A13	ETP-M5	1	Outreach	Metric	Number of outreach events with technology developers with products <1 year from commercialization, including new technology vendors, manufacturers, and entrepreneurs. *This metric will be updated once all third party contracts have been awarded.	Emerging Technology (s ET)	2016	N/A	N/A	0	3	tdb events*	tdb events*	Data for this metric will be gathered from all TPM implementers annually.	Technology priority main (TPM) are defined in the Business Plan 2.		

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Index	PA Page	ATA Order	Method Code	Units of Measurement	Metric Type	Metric/Indicator	Business Plan/ATA Description	Metric	Sector	Baseline #	Baseline # Year	Short Term Annual Targets (2018-2020)			Long Term Annual Target (2024-2025)	Methodology	Key Definitions	Priority Explanation
												2018 Target	2019 Target	2020 Target				
312	SW A14	ETP M6	1	Count of TFPs	PIOTS	Metric	Number of projects initiated with cooperation from each technology-focused pilot. This number will be updated once all third party contracts have been awarded.	Number of projects initiated with cooperation from other internal IDU programs associated with technology-focused pilot.	Emerging Technology (ET)	N/A	N/A	0	2	0	tdat*	ETP-M6 metric is a subset of ETP-M7. All targets will be determined by 3P TPM implementers.	1) "Cooperation" is defined as a process by which all parties work towards a mutual objective.	
313	SW A14	ETP M7	1	Count of TFPs	PIOTS	Metric	Number of Technology-Focused Pilot (TFP) contracts awarded as part of the TFP program.	Number of Technology-Focused Pilot (TFP) contracts awarded.	Emerging Technology (ET)	N/A	N/A	0	3	0	tdat*	Data for this metric will be gathered from 3P TPM implementers annually.	1) A technology-focused pilot (TFP) will identify market barriers for a diverse group of stakeholders through studies, and subsequently breaking down identified barriers in collaboration with other relevant stakeholders. 2) Pilot that have been proposed by 3Ps in response to PA needs and that have been approved through the existing TFP process. 3) TFPs that have been approved through the existing TFP process and that have been conducted in cooperation with other programs.	
314	SW A15	ETP-T1	1	Percent of New Measures	Measure Tracking	Metric	Prior year % of new measures added to the portfolio that were previously ETP. The PA believes this is not salient for a metric with targets because ETP does not make decisions about new measures.	Prior year % of new measures added to the portfolio that were previously ETP. The PA believes this is not salient for a metric with targets because ETP does not make decisions about new measures.	Emerging Technology (ET)	N/A	N/A	Per ED, to be determined by an ED study.	Per ED, to be determined by an ED study.	Per ED, to be determined by an ED study.	Per ED, to be determined by an ED study.	Per ED: Baseline, methodology, and targets need to be determined by ED. The PA believes this is not salient for a metric with targets because ETP does not make decisions about new measures. Baselines will not be available until then.	ETP-T1 through ETP-T8 are in a table titled "Emerging Technologies Tracking (Reporting)" and are separate from the metrics in Attachment A of D.18-05-041. ETP-T9 through ETP-T12 are in a table titled "Emerging Technologies Metrics" in Attachment A of D.18-05-041. The PA had proposed that tracking metrics for ETP-T9 through ETP-T12, 2017 would be determined by the commission. Baselines will not be available until then.	
315	SW A15	ETP-T2	1	Count of New Measures	Measure Tracking	Metric	Prior Year # of new measures added to the portfolio that were previously ETP. The PA believes this is not salient for a metric with targets because ETP does not make decisions about new measures.	Prior Year # of new measures added to the portfolio that were previously ETP. The PA believes this is not salient for a metric with targets because ETP does not make decisions about new measures.	Emerging Technology (ET)	N/A	N/A	Per ED, to be determined by an ED study.	Per ED, to be determined by an ED study.	Per ED, to be determined by an ED study.	Per ED, to be determined by an ED study.	Per ED: Baseline, methodology, and targets need to be determined by ED. The PA believes this is not salient for a metric with targets because ETP does not make decisions about new measures. Baselines will not be available until then.	ETP-T1 through ETP-T8 are in a table titled "Emerging Technologies Tracking (Reporting)" and are separate from the metrics in Attachment A of D.18-05-041. ETP-T9 through ETP-T12 are in a table titled "Emerging Technologies Metrics" in Attachment A of D.18-05-041. The PA had proposed that tracking metrics for ETP-T9 through ETP-T12, 2017 would be determined by the commission. Baselines will not be available until then.	
316	SW A15	ETP-T3	1	Percent	Measure Tracking	Metric	Prior Year % of new codes and standards that were previously ETP. The PA believes this is not salient for a metric with targets because ETP does not make decisions about new codes or standards.	Prior Year % of new codes and standards that were previously ETP. The PA believes this is not salient for a metric with targets because ETP does not make decisions about new codes or standards.	Emerging Technology (ET)	N/A	N/A	Per ED, to be determined by an ED study.	Per ED, to be determined by an ED study.	Per ED, to be determined by an ED study.	Per ED, to be determined by an ED study.	Per ED: Baseline, methodology, and targets need to be determined by ED. The PA believes this is not salient for a metric with targets because ETP does not make decisions about new codes or standards. Baselines will not be available until then.	ETP-T1 through ETP-T8 are in a table titled "Emerging Technologies Tracking (Reporting)" and are separate from the metrics in Attachment A of D.18-05-041. ETP-T9 through ETP-T12 are in a table titled "Emerging Technologies Metrics" in Attachment A of D.18-05-041. The PA had proposed that tracking metrics for ETP-T9 through ETP-T12, 2017 would be determined by the commission. Baselines will not be available until then.	
317	SW A15	ETP-T4	1	Count	Measure Tracking	Metric	Prior Year # of new codes and standards that were previously ETP. The PA believes this is not salient for a metric with targets because ETP does not make decisions about new codes or standards.	Prior Year # of new codes and standards that were previously ETP. The PA believes this is not salient for a metric with targets because ETP does not make decisions about new codes or standards.	Emerging Technology (ET)	N/A	N/A	Per ED, to be determined by an ED study.	Per ED, to be determined by an ED study.	Per ED, to be determined by an ED study.	Per ED, to be determined by an ED study.	Per ED: Baseline, methodology, and targets need to be determined by ED. The PA believes this is not salient for a metric with targets because ETP does not make decisions about new codes or standards. Baselines will not be available until then. PAs will work with the commission regarding ETP content to portfolio content.	ETP-T1 through ETP-T8 are in a table titled "Emerging Technologies Tracking (Reporting)" and are separate from the metrics in Attachment A of D.18-05-041. ETP-T9 through ETP-T12 are in a table titled "Emerging Technologies Metrics" in Attachment A of D.18-05-041. The PA had proposed that tracking metrics for ETP-T9 through ETP-T12, 2017 would be determined by the commission. Baselines will not be available until then. PAs will work with the commission regarding ETP content to portfolio content.	

Attachment 1: Metrics Compliance Filing

Index	PA	ATA Page	ATA Order	Method Code	Units of Measurement	Metric Type	Metric/Indicator	Business Plan/ATA Description	Metric	Sector	Baseline #	Baseline Diagram	Short-Term Annual Targets (2018-2020)			Long-Term Annual Target (2024-2025)	Methodology	Key Definitions	Privacy Explanation
													2018 Target	2019 Target	2020 Target				
318	SW	A15	T5a	1	Lifecycle net kW	Savings Tracking	Metric	Savings of measures currently in the portfolio that were supported by ETP, added since 2009. Excludes measures with on-post where available. The PA does not claim any savings because ETP is a non-resource program and does not claim any savings.	Savings of measures currently in the portfolio that were supported by ETP, added since 2009. Excludes measures with on-post where available. The PA does not claim any savings because ETP is a non-resource program and does not claim any savings.	Emerging Technology (ET)	N/A	N/A	Per ED, to be determined by an ED study.	Per ED, to be determined by an ED study.	Per ED, to be determined by an ED study.	Per ED, to be determined by an ED study.	ETP-11 through ETP-78 are in a table titled "Emerging Technologies Tracking Metrics" in Attachment A of D.18-05-041. Metrics 1-5 need to be determined at the same time as part of calculating savings (ETP-75) and because ETP evaluators need to make these determinations. Baselines will not be available until then.	ETP-11 through ETP-78 are in a table titled "Emerging Technologies Tracking Metrics" in Attachment A of D.18-05-041. Metrics 1-5 need to be determined at the same time as part of calculating savings (ETP-75) and because ETP evaluators need to make these determinations. Baselines will not be available until then.	
319	SW	A15	T5b	1	Lifecycle net kWh	Savings Tracking	Metric	Savings of measures currently in the portfolio that were supported by ETP, added since 2009. Excludes measures with on-post where available. The PA does not claim any savings because ETP is a non-resource program and does not claim any savings.	Savings of measures currently in the portfolio that were supported by ETP, added since 2009. Excludes measures with on-post where available. The PA does not claim any savings because ETP is a non-resource program and does not claim any savings.	Emerging Technology (ET)	N/A	N/A	Per ED, to be determined by an ED study.	Per ED, to be determined by an ED study.	Per ED, to be determined by an ED study.	Per ED, to be determined by an ED study.	ETP-11 through ETP-78 are in a table titled "Emerging Technologies Tracking Metrics" in Attachment A of D.18-05-041. Metrics 1-5 need to be determined at the same time as part of calculating savings (ETP-75) and because ETP evaluators need to make these determinations. Baselines will not be available until then.	ETP-11 through ETP-78 are in a table titled "Emerging Technologies Tracking Metrics" in Attachment A of D.18-05-041. Metrics 1-5 need to be determined at the same time as part of calculating savings (ETP-75) and because ETP evaluators need to make these determinations. Baselines will not be available until then.	
320	SW	A15	T5c	1	Lifecycle net kWh	Savings Tracking	Metric	Savings of measures currently in the portfolio that were supported by ETP, added since 2009. Excludes measures with on-post where available. The PA does not claim any savings because ETP is a non-resource program and does not claim any savings.	Savings of measures currently in the portfolio that were supported by ETP, added since 2009. Excludes measures with on-post where available. The PA does not claim any savings because ETP is a non-resource program and does not claim any savings.	Emerging Technology (ET)	N/A	N/A	Per ED, to be determined by an ED study.	Per ED, to be determined by an ED study.	Per ED, to be determined by an ED study.	Per ED, to be determined by an ED study.	ETP-11 through ETP-78 are in a table titled "Emerging Technologies Tracking Metrics" in Attachment A of D.18-05-041. Metrics 1-5 need to be determined at the same time as part of calculating savings (ETP-75) and because ETP evaluators need to make these determinations. Baselines will not be available until then.	ETP-11 through ETP-78 are in a table titled "Emerging Technologies Tracking Metrics" in Attachment A of D.18-05-041. Metrics 1-5 need to be determined at the same time as part of calculating savings (ETP-75) and because ETP evaluators need to make these determinations. Baselines will not be available until then.	
321	SW	A15	T6a	1	Count of project ideas by PA	Project Ideas Tracking	Metric	Number and source (by reported by submitter) of project ideas submitted to the annual TPA research planning process by PA.	Number and source (by reported by submitter) of project ideas submitted to the annual TPA research planning process by PA.	Emerging Technology (ET)	N/A	N/A	0	2	2	tdb*	Data for this metric will be gathered from 37 TPA implementers annually. The metric ETP-41 through ETP-47 are part of the TPA-aligned research planning process. It can be reported under both ETP-76 and ETP-77. These metrics will be counted under each source and will be counted under each.	ETP-41 through ETP-47 are in a table titled "Emerging Technologies Tracking Metrics" in Attachment A of D.18-05-041. Metrics 1-5 need to be determined at the same time as part of calculating savings (ETP-75) and because ETP evaluators need to make these determinations. Baselines will not be available until then.	ETP-41 through ETP-47 are in a table titled "Emerging Technologies Tracking Metrics" in Attachment A of D.18-05-041. Metrics 1-5 need to be determined at the same time as part of calculating savings (ETP-75) and because ETP evaluators need to make these determinations. Baselines will not be available until then.
322	SW	A15	T6b	1	Count of project ideas by national labs	Project Ideas Tracking	Metric	Number and source (by submitted to the annual TPA research planning process, for these categories of sources: PA, manufacturer, entrepreneur, etc.) The PA does not control the number of project ideas submitted for a metric with target because ETP does not control the number of project ideas submitted for a metric with target.	Number and source (by submitted to the annual TPA research planning process, for these categories of sources: PA, manufacturer, entrepreneur, etc.) The PA does not control the number of project ideas submitted for a metric with target because ETP does not control the number of project ideas submitted for a metric with target.	Emerging Technology (ET)	N/A	N/A	0	1	1	tdb*	Data for this metric will be gathered from 37 TPA implementers annually. The metric ETP-41 through ETP-47 are part of the TPA-aligned research planning process. It can be reported under both ETP-76 and ETP-77. These metrics will be counted under each source and will be counted under each.	ETP-41 through ETP-47 are in a table titled "Emerging Technologies Tracking Metrics" in Attachment A of D.18-05-041. Metrics 1-5 need to be determined at the same time as part of calculating savings (ETP-75) and because ETP evaluators need to make these determinations. Baselines will not be available until then.	ETP-41 through ETP-47 are in a table titled "Emerging Technologies Tracking Metrics" in Attachment A of D.18-05-041. Metrics 1-5 need to be determined at the same time as part of calculating savings (ETP-75) and because ETP evaluators need to make these determinations. Baselines will not be available until then.

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													2018 Target	2019 Target	2020 Target							
323	SW	A15	ET6-TE6	1	Count of project ideas by manufacturer	Project Ideas Tracking	Metric	Number and source (as reported by submitter) of project ideas submitted OUTSIDE of the annual TPM research planning process by PA, national lab, entrepreneur, etc.) *The PAs believe this is not a metric because it does not control the number of submissions for their research planning process by manufacturer. Targets are set in advance of the program. Targets and sources may be updated in combination with the annual TPM research planning process as awards are awarded.	Number and source (as reported by submitter) of project ideas submitted OUTSIDE of the annual TPM research planning process by PA, national lab, entrepreneur, etc.) *The PAs believe this is not a metric because it does not control the number of submissions for their research planning process by manufacturer. Targets are set in advance of the program. Targets and sources may be updated in combination with the annual TPM research planning process as awards are awarded.	Emerging Technology (ET)	N/A	N/A	N/A	0	1	1	N/A	1	tsb*	Data for this metric will be gathered from 3P TPM implementers annually, if ideas are submitted both outside and as part of the TPM research planning process, it can be reported under both ET6-16 and ET6-17. Ideas may be submitted by more than one source or will be counted under each.	ET6-17 through ET6-18 are in a table titled "Emerging Technologies Tracking (Reporting)" and are separate from the metrics ET6-16 through ET6-17 in the Metrics" in Attachment A of D.18.05-041. PAs had proposed that tracking metrics have no targets in the July 13, 2017 metrics filing, however the commission ruled that these tracking metrics must have targets. "Submitter" refers to an idea submitted through a formal submission process.	
324	SW	A15	ET6-TE6	1	Count of project ideas by entrepreneur	Project Ideas Tracking	Metric	Number and source (as reported by submitter) of project ideas submitted OUTSIDE of the annual TPM research planning process by PA, national lab, entrepreneur, etc.) *The PAs believe this is not a metric because it does not control the number of submissions for their research planning process by entrepreneur.	Number and source (as reported by submitter) of project ideas submitted OUTSIDE of the annual TPM research planning process by PA, national lab, entrepreneur, etc.) *The PAs believe this is not a metric because it does not control the number of submissions for their research planning process by entrepreneur.	Emerging Technology (ET)	N/A	N/A	N/A	0	0	1	N/A	1	tsb*	Data for this metric will be gathered from 3P TPM implementers annually, if ideas are submitted both outside and as part of the TPM research planning process, it can be reported under both ET6-16 and ET6-17. Ideas may be submitted by more than one source or will be counted under each.	ET6-17 through ET6-18 are in a table titled "Emerging Technologies Tracking (Reporting)" and are separate from the metrics ET6-16 through ET6-17 in the Metrics" in Attachment A of D.18.05-041. PAs had proposed that tracking metrics have no targets in the July 13, 2017 metrics filing, however the commission ruled that these tracking metrics must have targets. "Submitter" refers to an idea submitted through a formal submission process.	
325	SW	A15	ET6-TE6	1	Count of project ideas by PA	Project Ideas Tracking	Metric	Number and source (as reported by submitter) of project ideas submitted OUTSIDE of the annual TPM research planning process by PA, national lab, entrepreneur, etc.) *The PAs believe this is not a metric because it does not control the number of submissions for their research planning process by PA.	Number and source (as reported by submitter) of project ideas submitted OUTSIDE of the annual TPM research planning process by PA, national lab, entrepreneur, etc.) *The PAs believe this is not a metric because it does not control the number of submissions for their research planning process by PA.	Emerging Technology (ET)	N/A	N/A	N/A	0	3	3	N/A	3	tsb*	Data for this metric will be gathered from 3P TPM implementers, if ideas are submitted both outside and as part of the TPM research planning process, it can be reported under both ET6-16 and ET6-17. Ideas may be submitted by more than one source or will be counted under each.	ET6-17 through ET6-18 are in a table titled "Emerging Technologies Tracking (Reporting)" and are separate from the metrics ET6-16 through ET6-17 in the Metrics" in Attachment A of D.18.05-041. PAs had proposed that tracking metrics have no targets in the July 13, 2017 metrics filing, however the commission ruled that these tracking metrics must have targets. "Submitter" refers to an idea submitted through a formal submission process.	
326	SW	A15	ET6-TE6	1	Count of project ideas by national lab	Project Ideas Tracking	Metric	Number and source (as reported by submitter) of project ideas submitted OUTSIDE of the annual TPM research planning process by PA, national lab, entrepreneur, etc.) *The PAs believe this is not a metric because it does not control the number of submissions for their research planning process by national lab.	Number and source (as reported by submitter) of project ideas submitted OUTSIDE of the annual TPM research planning process by PA, national lab, entrepreneur, etc.) *The PAs believe this is not a metric because it does not control the number of submissions for their research planning process by national lab.	Emerging Technology (ET)	N/A	N/A	N/A	0	1	1	N/A	1	tsb*	Data for this metric will be gathered from 3P TPM implementers, if ideas are submitted both outside and as part of the TPM research planning process, it can be reported under both ET6-16 and ET6-17. Ideas may be submitted by more than one source or will be counted under each.	ET6-17 through ET6-18 are in a table titled "Emerging Technologies Tracking (Reporting)" and are separate from the metrics ET6-16 through ET6-17 in the Metrics" in Attachment A of D.18.05-041. PAs had proposed that tracking metrics have no targets in the July 13, 2017 metrics filing, however the commission ruled that these tracking metrics must have targets. "Submitter" refers to an idea submitted through a formal submission process.	

Attachment 1: Metrics Compliance Filing

Index	PA	ATA Page	ATA Order	Method Code	Units of Measurement	Metric Type	Metric/Indicator	Business Plan/ATA Description	Metric	Sector	Baseline #	Baseline Number	Short-Term Annual Targets (2018-2020)			Baseline Diagram	M&D Term Annual Targets (2021-2023)	Long-Term Annual Target (2024-2025)	Methodology	Key Definitions	Proxy Explanation
													2018 Target	2019 Target	2020 Target						
327	SW	A15	ETP-17c	1	Count of project ideas by manufacturer	Project Ideas Tracking	Metric	Number and source (as reported by submitter) of project ideas submitted AS PART of the annual research planning process, for these categories of sources: PA, national lab, entrepreneur, etc. *The PAU believe this is not meant to be an exhaustive list of sources. ETP ideas not control the number of submissions searched.	Number and source (as reported by submitter) of project ideas submitted AS PART of the annual research planning process, for these categories of sources: PA, national lab, entrepreneur, etc. *The PAU believe this is not meant to be an exhaustive list of sources. ETP ideas not control the number of submissions searched.	Emerging Technology (ETP)	N/A	N/A	0	1	1	1	1	1	1	1	ETP-17 through ETP-19 are in a table titled "Emerging Technologies Tracking (Reporting)" and are separate from the metrics ETP-16 through ETP-17. The PAU had proposed that tracking metrics be included in Attachment A of D.18.05-041. However, the commission ruled that these tracking metrics must be tracked through the ETP-16 and ETP-17. These may be tracked through the ETP-16 and ETP-17 submission process.
328	SW	A15	ETP-17d	1	Count of project ideas by entrepreneurs	Project Ideas Tracking	Metric	Number and source (as reported by submitter) of project ideas submitted AS PART of the annual research planning process, for these categories of sources: PA, national lab, entrepreneur, etc. *The PAU believe this is not meant to be an exhaustive list of sources. ETP ideas not control the number of submissions searched.	Number and source (as reported by submitter) of project ideas submitted AS PART of the annual research planning process, for these categories of sources: PA, national lab, entrepreneur, etc. *The PAU believe this is not meant to be an exhaustive list of sources. ETP ideas not control the number of submissions searched.	Emerging Technology (ETP)	N/A	N/A	0	1	1	1	1	1	1	1	ETP-17 through ETP-19 are in a table titled "Emerging Technologies Tracking (Reporting)" and are separate from the metrics ETP-16 through ETP-17. The PAU had proposed that tracking metrics be included in Attachment A of D.18.05-041. However, the commission ruled that these tracking metrics must be tracked through the ETP-16 and ETP-17. These may be tracked through the ETP-16 and ETP-17 submission process.
329	SW	A16	ETP-18	1	Number of lists	Statewide Goal Alignment	Metric	Use of ETP projects aligned with statewide goals in the reporting year with specificity as to what federal goals will be tracked. A list of eligible ETP projects will be developed in collaboration with ED.	List of ETP projects aligned with statewide goals indicated in the reporting year with specificity as to what federal goals will be tracked in collaboration with ED.	Emerging Technology (ETP)	N/A	N/A	N/A	N/A	2 lists cumulative	2 lists cumulative	2 lists cumulative	2 lists cumulative	2 lists cumulative	2 lists cumulative	ETP-17 through ETP-19 are in a table titled "Emerging Technologies Tracking (Reporting)" and are separate from the metrics ETP-16 through ETP-17. The PAU had proposed that tracking metrics be included in Attachment A of D.18.05-041. However, the commission ruled that these tracking metrics must be tracked through the ETP-16 and ETP-17. These may be tracked through the ETP-16 and ETP-17 submission process.