PUBLIC UTILITIES COMMISSION
505 VAN NESS AVENUE
SAN FRANCISCO, CA 94102-3298

December 19, 2018

Ronald van der Leeden
Southern California Gas
Director, Regulatory Affairs
555 West Fifth Street
Los Angeles, CA 90013

Clay Faber
San Diego Gas & Electric
California & Federal Regulatory
8330 Century Park Court
San Diego, CA 92123

Dear Mr. van der Leeden and Mr. Faber:

Energy Division approves SDG&E's 2019 Annual Budget Advice Letter (3267-E/2700-G and 3267-E/2700-G) and SoCalGas' 2019 Annual Budget Advice Letter (5349 and 5349-A).

Background
On September 4, 2018, San Diego Gas & Electric Company (SDG&E) filed AL 3267-E/2700-G and Southern California Gas Company (SoCalGas) filed AL 5349.[1]

Public Advocates Office Protest and Reply Comments

On October 4, 2018, The California Public Advocates Office (CalPA) timely protested the ABALs of SDG&E and SoCalGas.

Required use of 2019-2020 Draft DEER Resolution E-4952

In its protest, CalPA requests that the Program Administrators (PAs) file supplemental advice letters updating their 2019 ABALs based on the 2019-2020 Draft DEER Resolution E-4952. CalPA states that the "Draft Resolution E-4952 would make numerous changes to DEER such as amendments to net-to-gross ratios and the expected useful life of certain measures. Many of these changes will reduce the claimable savings from energy efficiency measures. If Draft Resolution E-4952 is adopted by the Commission, the Program Administrators' (PAs') energy efficiency portfolios will instantly become less cost-effective than currently forecast."[2]

CalPA concludes that "given the fact that Draft Resolution E-4952 is likely to have a significant impact on the cost-effectiveness of EE portfolios, the Commission should require all EE PAs to submit supplemental advice letters after the resolution is adopted. In these supplemental advice letters, each PA should provide a revised cost-effectiveness forecast based on the updated DEER values."[3]

[1] D.15-10-028, OP 4.
[2] California Public Advocates protest to MCE, PG&E, SCE, SDG&E and SoCalGas ABALs in proceeding R.13-11-015, pages 4-5.
[3] Ibid.

In its reply, SoCalGas disagrees with CalPA's assertion regarding the perceived inadequacy of SoCalGas' explanation of how it will improve cost-effectiveness and reach an evaluated TRC of 1.0 for 2019. Like PG&E, SoCalGas refers to the ABAL filing of September 4, 2018, in which it describes opportunities it will leverage as the means to achieve a cost-effective portfolio, including partnerships with a variety of local/municipal entities (electric utilities, water agencies, and air quality districts) to drive savings and lower costs, as well as an expanded residential behavior program that will target a much larger number of customers with home energy reports.[8]

SoCalGas also rebuts CalPA's doubts over anticipated savings for 2019 from specific measures such as installed infrared film for greenhouses and greenhouse heat curtains, arguing that the forecasts are within reason based on prior historical results.[9]

Discussion

D. 18-05-041, Section 7.2, describes the required content to be included in a PA ABAL filing. Specifically, the PA(s) must "include a discussion of proposed program and portfolio changes, to facilitate Commission staff and stakeholder review of the ABAL submissions and understanding of future portfolio considerations and composition." In its protest, CalPA argues that SoCalGas did not adequately address the required content presented earlier regarding forecasted and evaluated portfolio cost-effectiveness and strategies to either lower costs or increase savings going forward. While CalPA is correct in that PA ABALs were required to address those issues, D. 18-05-041 goes on to state that "there will be minimal to no review/oversight by staff of the provided information, but the information must be provided." Therefore, Energy Division interprets the decision language to indicate that a PA must provide an explanation why they believe their portfolio will achieve an evaluated TRC of 1.0.

Subsequent review by Energy Division of SoCalGas' initial and supplemental ABAL, as well as its response to CalPA's protest finds SoCalGas met the requirements of D. 18-05-041 by including the required content in their ABAL filings. Specifically, SoCalGas has:

- Provided a list of proposed programs it intends to either expand or close in 2019 to improve cost-effectiveness
- Highlighted the third-party solicitation process as a key component of improving portfolio cost-effectiveness during the "ramp years"
- Described how it will partner with municipal agencies to drive down program administrative cost and improve portfolio cost-effectiveness.

Energy Division finds that SoCalGas has met the annual budget advice letter review criteria listed above and has provided an adequate explanation why it is not forecasting a portfolio TRC of 1.25 and how it plans to achieve an evaluated portfolio TRC of 1.0 during the transition period. Consequently, the Energy Division rejects CalPA's protest.

---

[8] See SoCalGas *Reply to Protests and Response of SoCalGas Advice Letter No. (AL) 5349-G*
[9] ibid.

Lastly, because SoCalGas met the ABAL review criteria of a forecasted 1.0 TRC, but fell short of forecasting 1.25 TRC threshold, D. 18-05-041 requires SoCalGas to participate in the workshop process[10] in which SoCalGas will:

- explain why its forecasted TRC does not meet or exceed 1.25
- describe how it intends to achieve a portfolio TRC that meets or exceeds 1.0 on an evaluated basis
- describe how it will transition to and achieve a forecast TRC of at least 1.25 by program year 2023.

As part of this process, SoCalGas should:

- identify any programs it intends to discontinue or modify due to consistently poor or declining cost-effectiveness results, and
- how the PA is communicating this intention to those programs' beneficiaries.

Energy Division staff, working with SoCalGas in planning the workshop, may also ask SoCalGas to address additional issues related to portfolio cost-effectiveness, administrative costs and program accounting practices.

The workshop process is the appropriate venue for CalPA to gather more substantive information on SoCalGas' portfolio cost-effectiveness and provide constructive feedback to SoCalGas via the review and comment process. While D. 18-05-041 provides a specific timeline, as part of this workshop process the PAs must deliver a report that summarizes the workshop. Per Commission guidance, parties may file comments on SoCalGas' proposed portfolio composition in response to the SoCalGas workshop report.

The PAs should be required to show their portfolios comply with the statewide funding requirements of D.18-05-041

CalPA states in its protest that the IOUs did not file detailed budgets for their statewide programs in their ABALs demonstrating compliance with existing statewide requirements. These requirements include:

- PG&E, SoCalGas and SDG&E spend at least 25% of their portfolio budget on statewide programs, and SoCalGas spends at least 15% of its budget on statewide programs, where such statewide programs conform to the new definition per D.16-08-019
- Each IOU funds each statewide program in proportion to its load share[11], and that such funding not deviate from load share by more than 20 percent.[12]

[10] See D. 18-05-041 at http://docs.cpuc.ca.gov/PublishedDocs/Published/G000/M215/K706/215706139.PDF , pp. 134-137.
[11] D.18-05-041 OP22
[12] D.18-05-041 at 83

CalPA also notes that the PAs have not presented a plan for determining load share or how statewide program costs will be allocated across funding PAs. For this reason, CalPA argues, the Commission cannot be assured of compliance with the statewide requirements. CalPA asks that the Commission require the PAs to file in a supplemental filing the load-proportional funding shares by fuel type (gas and electric) for each statewide program, to demonstrate compliance.

SDG&E's response to CalPA's protest states that Energy Division staff has requested this information in an October 1, 2018, supplemental request related to the 2019 ALs. SDG&E further notes that it plans to provide this information as requested by October 29, 2018.[13]

SoCalGas' response to CalPA's protest argues that the PAs should not be required to demonstrate compliance with statewide program requirements in their 2019 filings in that such a requirement is premature because there will be no statewide programs compliant with the new definition implemented in 2019. The new definition of statewide programs per D.16-08-019 states that one or more statewide implementers under contract to the lead administrator should deliver statewide programs uniformly throughout the state. SoCalGas notes that it is working with other PAs to provide budget sharing methodology in response to Energy Division staff's request for supplemental information and that budget amounts for each statewide program will be forthcoming in the 2020 ABAL filings, corresponding with the first year of its statewide implementation.[14]

Discussion

As SoCalGas states in its response to CalPA's protest of its 2019 ABAL, statewide programs conforming to the definition in D.16-08-019 will not be implemented until program year 2020. Energy Division staff concurs and removed the statewide budget clarification request from the 2019 supplemental and instead submitted the same request for this information as a supplemental request to the PAs' co-funding mechanism advice letters. The PAs submitted the requested supplemental information on November 16, 2018 within the co-funding mechanism advice letter review process. A 20-day comment period for Parties to react to the supplemental advice letters closed on Thursday December 6, 2018, with no protests. Energy Division staff are working on the related dispositions. The resultant supplemental fillings[15] will be evaluated with respect to their demonstration of compliance with statewide program policies of D.16-08-019 and D.18-04-041, and the degree to which they sufficiently address CalPA protests.

Energy Division agrees with SoCalGas that the current statewide programs, including the codes and standards advocacy programs, do not need to be structured in accordance with the requirements of D.16-08-019 until 2020. The current programs are cooperatively managed by the PAs but are not delivered uniformly by a third-party implementer—or implementers—that are under contract to the

[13] See SDG&E's *Reply to the Protests of Advice Letter 3267-E/2700-G*

[14] See SoCalGas *Reply to Protests and Response of SoCalGas Advice Letter No. (AL) 5349-G*

[15] Supplemental Advice Letters filed November 16 regarding the IOU's Shared Funding Mechanism Proposal Pursuant to D.18-05-041: Advice Letter 3268-E-A/2701-G-A (SDG&E U902 M), Advice Letter 5346-G-A (SCG U904 G), Advice Letter 3861-E-A (SCE U338 E), Advice Letter 5373-E-A/4009-G-A (PG&E U39 M)

lead IOU PA that holds full decision-making authority. The PAs plan to conduct solicitations throughout 2019 to hire third party implementers to launch compliant statewide programs. The PAs' third-party solicitation plans cover each statewide program, including the codes and standards advocacy program. For this reason, we find that it is reasonable to expect that no compliant statewide programs are expected to operate in program year 2019, and therefore are not directly pertinent to the 2019 ABAL filing.

Consequently, Energy Division finds that the statewide program issues raised in CalPA's protest are addressed sufficiently in the filings pursuant to the requirements of the ABAL and that it is more appropriate to address statewide program funding issues in the context of the statewide co-funding advice letters. No policy-compliant statewide programs will launch in 2019 and for this reason we reject CalPA's protest in that there are insufficient grounds to withhold approval of 2019 ABAL filings on the basis of the statewide program issues.

Energy Division finds the 2019 budget allocations made by SoCalGas' and SDG&E's to Codes and Standards (C&S) Advocacy are lower than they would be under a load-share proportional funding requirement. Energy Division recognizes that the IOUs are in the process of developing compliant statewide portfolios, but also clarify that Energy Division will require statewide budgets in 2020 and in all future ABAL filings to conform to the load-share proportional funding requirements approved through the statewide co-funding advice letter process.[15]

SDG&E should substantiate its cost effectiveness forecasts, particularly with respect to its lighting programs

CalPA finds the cost-effectiveness estimates made by SDG&E for its lighting programs to be questionable. CalPA describe the estimates as "unusually high and not substantiated". CalPA notes that the cost effectiveness ratios for SDG&E's lighting programs are much higher than have been forecasted or observed in comparable programs, particularly for similar programs in the 2018 portfolio. Further, CalPA requests that Energy Division require SDG&E to submit additional information to substantiate its lighting cost-effectiveness forecasts. CalPA also recommends that SDG&E eliminate or substantially restructure single family and multi-family programs to improve cost-effectiveness.

In its response, SDG&E states that it has adjusted the portfolio to accommodate cost-effectiveness requirements. Specifically, SDG&E notes that it made cuts in the types of measure offerings, but not in quantities incented, and that the measures that remain are highly cost-effective. SDG&E also explains that the 2018 DEER updates changed lighting incremental costs such that cost-effectiveness was improved for some upstream lighting measures. Further, SDG&E states that it was able to re-negotiate lower per-unit incentive costs for some measures, and that the quantities of the remaining cost-effective lighting measures are forecasted to increase in 2019 versus 2018.

With respect to its Single-Family program, SDG&E states that it intends to discontinue the Statewide Energy Upgrade California Whole House Retrofit Program and to replace both the Advanced Home

Upgrade Program and the Residential HVAC Quality Installation/Quality Maintenance program through the ongoing third-party program solicitations. In the meantime, both programs will continue to be offered, but the advanced home upgrade program will be re-categorized as a non-resource program due to its current cost-effectiveness performance and parameters.

Discussion

Energy Division finds that SDG&E's explanation of recent and planned changes to the lighting and residential energy efficiency programs discussed above sufficiently addresses the concerns raised by CalPA and, consequently, CalPA's protest of this issue is rejected.

Administrative Costs

CalPA asks the Commission to reject SoCalGas ABAL and require each of the IOU PAs to minimize administrative costs, arguing that the IOUs must be out of compliance due to the perceived effect those costs, as filed on CEDARS, have on portfolio cost-effectiveness.

CalPA asks that the Commission require:

- each IOU to file a supplemental advice letter that uses consistent accounting methods for administrative costs vis a vis portfolio cost-effectiveness with and without these costs
- SCE's supplemental advice letter to include a demonstrated compliance with budget caps for administrative and overhead cost categories
- SoCalGas supplemental advice letter to include demonstrated compliance with the Commission's 10 percent cap on administrative costs as they are calculated using a "labor loader".[16]

SDG&E's response describes CalPA's protest of the IOUs' ABALs, on the grounds that the IOUs are not compliant with the Commission's 10 percent cap on administrative costs, as unwarranted.[17]

SDG&E argues that its utility administrative costs, at either 8.2% or 6.7% (depending on inclusion or exclusion of loan pool),[18] are compliant with the Commission's 10 percent cap, and that SDG&E's portfolio cost-effectiveness (TRC of 1.34) with administrative costs still surpasses the Commission's requirement that the ABAL be filed with a forecast TRC above 1.0.[19] In Table 8 of its ABAL, SDG&E's administrative costs are listed as $6,295,584, out of a total budget of $106,665,916; this represents approximately 6 percent of total budget, which is in compliance with the Commission's 10 percent cap.[20]

---

[16] Ibid.
[17] See SDG&E's Reply to the Protests of Advice Letter 3267-E/2700-G, p. 4.
[18] Ibid.
[19] Ibid.
[20] See SDG&E Advice Letter 3267-E/2700-G, p. 8.

SoCalGas' response to CalPA's protest states that CalPA mistakenly asserts that SoCalGas ABAL is non-compliant with the Commission's 10 percent cap on administrative costs. SoCalGas argues that even with the labor loader in question, its administrative costs subject to the Commission's cap total just 8.7%.[21]

In SoCalGas' ABAL, filed September 4, 2018, Table 6 presents SoCalGas' 2019 administrative costs and labor loader. In that table, the 2019 administrative costs value of $8,346,434 for 2019 includes both program administrative costs, which are subject to the Commission's cap, as well as utility administrative costs[22]. In its response to CalPA's protest, SoCalGas notes that just $4.3 million of the approximately $8.3 million in administrative costs are program administrative costs subject to the Commission's 10 percent cap. Consequently, these program administrative costs, when added to the labor loader amount of $5.4 million, represent a total that is just 8.7 percent of total costs and well under the Commission's 10 percent cap. The 10 percent cap from D.09-09-047 is set for IOU administrative costs only. SoCalGas has calculated the IOU administrative cost cap in accordance with D.09-09-047 OP 13, which excludes associated non-IOU third party and local government partnership administrative costs. These programs include Emerging Technologies, Codes & Standards, Workforce Education & Training, programs supporting market transformation and non-resource programs that meet the requirements in D.09-09-047.

Discussion

While not under review in this instance, we note that PG&E's and SCE's responses to CalPA's protest that their administrative costs are non-compliant with the Commission's 10 percent cap are correct. As submitted on the Commission's Cost-effectiveness Tool (CET), IOU administrative costs include those required to be under the Commission's cap as well as those not subject to the cap. Consequently, when CalPA used the "TRC-no admin" filter to determine portfolio cost-effectiveness both with and without administrative costs, it received a misleading estimate of the magnitude of the effect "TRC-no admin" has on the portfolio and was lead to believe that such an effect must mean that the IOUs are out of compliance with the Commission cap on administrative costs.

Additionally, SDG&E's and SoCalGas' responses to CalPA's protest provide clarification as to the specific administrative costs subject to the Commission's 10 percent cap. Consequently, due to issues related to how administrative costs are reported on the Commission's CEDARS website as well as guidance provided in the Energy Efficiency Policy Manual V5[23] on what costs are included and excluded in

---

[21] SoCalGas' administrative costs subject to the Commission's 10 percent cap total $9,708,067 out of a total budget of $111,866,415, per Table 6, *Southern California Gas Company Request for Approval of Annual Energy Efficiency Budget Submittal for Program Year 2019*, filed September 4, 2018

[22] See *Southern California Gas Company Request for Approval of Annual Energy Efficiency Budget Submittal for Program Year 2019*, filed September 4, 2018, p. 7; and SoCalGas's *Reply to Protests and Response of SoCalGas Advice Letter No. (AL) 5349-G*, p. 3.

[23] see Energy Efficiency Policy Manual V5 at http://www.cpuc.ca.gov/uploadedFiles/CPUC_Public_Website/Content/Utilities_and_Industries/Energy_-_Electricity_and_Natural_Gas/EEPolicyManualV5forPDF.pdf

determining whether a PA meets the Commission's 10 percent administrative costs cap, Energy Division finds that the IOUs' ABALs are in compliance with CPUC rules on administrative costs and therefore rejects CalPA's protest.

Local Government Sustainable Energy Coalition (LGSEC) Protest and Reply Comments

Changes to Local Government Partnerships (LGPs) are beyond the scope of the AL process

LGSEC argues that the sweeping changes proposed by the IOUs' ABALs are beyond the scope of the ABAL process, including: the IOUs' plan that all future LGPs will result from competitive solicitation and implemented by third parties, that all LGPs must be cost-effective under the Total Resource Cost test (TRC), and that non-resource LGPs will be severely curtailed or eliminated.[24] LGSEC adds that these changes are inappropriate for dispositions by Energy Division, because these proposals have not been reviewed and approved in any previous Commission proceeding.[25] LGSEC also states that instead of working with LGPs, the IOUs have begun implementing drastic program funding cuts, eliminations or downsizing longstanding programs such as SDG&E's non-resource program activities.[26]

SDG&E[27] and SoCalGas[28] both state in their replies to LGSEC's protest that their 2019 ABALs do not propose to reduce budgets for LGPs in 2019 and propose to maintain the status quo.

Discussion

According to D.18-05-041 the "standard of review for staff disposition of the ABALs does not include review of program administrators' decisions on reducing, cancelling, expanding or adding individual programs or program areas."[29] Energy Division understands this decision language to mean that changes to programs or offerings should not be grounds for rejecting a PA's ABAL. However, in D.15-10-028, Section 3.2.2.33, which describe the purpose of the ABAL, states "if a PA departs in significant ways from that PA's most recent budget, the PA can expect a higher degree of scrutiny from Commission Staff, and possibly a suspension of the advice letter."[30] Thus, while Energy Division is not required to review program changes, D.15-10-028 allows Energy Division to scrutinize changes to programs and budgets that significantly deviate from prior years approved budget. Staff did review the LGP budgets in 2018 and the proposed budgets in 2019 for both SDG&E and SoCalGas and found that SDG&E's budget allocated to LGPs increased by 27% in 2019 and SoCalGas budget allocated to LGPs decreased by 1% in 2019. These are not sweeping changes as LGSEC claims, unless you consider SDG&E's increased budget, but budget increases for LGPs was not the reason for LGSEC's protest. Energy Division also notes that D.15-10-028,

[24] LGSEC protest to the ABALs of PG&E, SCE, SDG&E, SoCalGas in Proceeding R.13-11-005, pgs 1 and 2.
[25] LGSEC protest, pg 2.
[26] LGSEC protest, pg 3.
[27] SDG&E Reply to the Protestants of Advice Letter 3267-E,2700-G in Proceeding R.13-11-005, pg 4.
[28] SoCalGas Reply to Protests and Response of SoCalGas Advice No. (AL) 5349 - Southern California Gas Company's Request for Approval of Annual Energy Efficiency Budget Filing for Program Year 2019 in Proceeding R.13-11-005, pg 5.
[29] D.18-05-041, pg 138.
[30] D.15-10-028, pg. 10.

which adopted the rolling portfolio cycle, clearly states that the ABAL is the where the PAs would file an annual report on "portfolio changes, annual spending and fund shifts (OP 4)."[31] Consequently, Energy Division rejects LGSEC's protests that the reductions to LGP budgets for SDG&E and SoCalGas are either "sweeping" or that the changes proposed go beyond the scope of the ABAL.

Changes proposed by IOUs' ABALs for LGPs are out of compliance with D.16-08-019 OP 14

LGSEC states that the IOUs' ABALs ignore the Commission mandate in D.16-08-019, OP 14, which states "PAs shall ensure a smooth transition between existing energy efficiency program activities and the changes outlined in this decision, to be proposed in the business plans due January 15, 2017, to minimize program disruptions and avoid any funding hiatus for ongoing efforts or partnerships."[32] LGSEC believes both the budget cuts to the LGP programs and move to competitively bid out LGPs to Third-Party competitive solicitation are out of compliance with OP 14 of D.16-08-019.[33]

Discussion

Energy Division again notes that SDG&E significantly increased its budget for LGPs, while SoCalGas' budget remained stable. SDG&E's fairly significant budget increase and SoCalGas' minimal budget decrease will ensure a smooth transition for budgets dedicated to LGPs by both IOUs in 2019. In addition, Energy Division has reviewed SDG&E's and SoCalGas' proposed LGP third-party solicitation process and finds that it is compliant with D.18-01-004, OP 1, which sets the schedule for which an increasing percentage of the IOUs' portfolios should be awarded to Third-Parties to design, administer and implement programs. Consequently, Energy Division rejects the claim by LGSEC that either SDG&E's or SoCalGas' proposed 2019 LGP budgets represent a budget cut, nor is there any indication that the programs will be disrupted or face a funding hiatus. In addition, the direction in D.18-01-004, requiring the IOUs to transition their portfolios to Third-Parties is a CPUC requirement. Consequently, LGSEC cannot overturn this requirement via a protest, but would need to file a Petition to Modify that decision. Also, D.18-01-004, OP 1 supersedes D.16-08-019, OP 14 on issues regarding the required transition for IOUs to bid their portfolios out to Third-Parties. Thus, Energy Division finds that the Third-Party solicitation process complies with D.16-08-019, OP 14 and rejects LGSEC's protest.

IOUs did not work with local governments on improving cost-effectiveness

LGSEC claims that despite OP 30 of D.18-05-041 requiring the IOUs to work with local governments to improve cost effectiveness, compliance with this OP has not yet occurred.[34]

[31] D.15-10-028, OP 4.
[32] D.16-08-019, OP 14.
[33] LGSEC protest, pg 2.
[34] LGSEC protest, pg 3

Discussion

Energy Division agrees with LGSEC that neither SDG&E nor SoCalGas addressed in their ABALs how they would comply with the requirements of the OP 30 of D.18-05-041, which required the IOUs to work with local governments on improving cost-effectiveness. However, Energy Division refers to Section 7.2 of D.18-05-041, which includes the criteria for approving the ABALs. We note that this section does not require the IOUs to include a plan for working with their local governments to improve cost-effectiveness as part of Energy Division's review of the IOUs' ABALs. In addition, OP 30 of D.18-05-041 does not include a date for compliance with this requirement or state how the IOUs should demonstrate compliance with the requirement. Thus, we reject LGSEC's protest, but remind SDG&E and SoCalGas that the IOUs must demonstrate compliance with D.18-05-041 OP 30 by working with local governments on cost-effectiveness.

IOUs did not quantify non-energy benefits provided by LGPs

LGSEC also points out there are co-benefits or local economic benefits from LGPs delivering programs to hard-to-reach (HTR) and disadvantaged communities (DACs) are not quantified in the IOUs' ABALs.

Discussion

As to LGSEC's claims that the IOUs' ABALs failed to address co-benefits or local economic benefits of LGPs for HTR and DAC in the IOU ABALs, Energy Division notes that this requirement was part of the IOUs' Motion for Standard Terms and Conditions for LGPs. This motion, which included how the IOUs' planned to quantify co-benefits or local economic benefits of LGPs for HTR and DACs, was submitted to the Commission on August 18, 2018, and parties provided input via comments on the motion. Consequently, because this issue will be addressed via the motion and in consideration of party comments, rather than through the ABAL review process, we reject LGSEC's protest.

Energy Atlas

Finally, LGSEC claims that the IOUs did not include sufficient detail on the expansion of Energy Atlas, designate a lead utility or include any specific information on funding allocations for Energy Atlas.[35]

SCE[36] and SDG&E[37] replied that they will provide the requested information in their 2019 Supplemental Advice Filings. In addition, SoCalGas added that LGSEC ignores the information SoCalGas has provided in its ABAL regarding the funding of Energy Atlas.[38] SoCalGas highlights Appendix A, Table 4, where it

[35] LGSEC protest, pg 3.
[36] SCE reply to protest, pg 6.
[37] SDG&E reply to protest, pg 5.
[38] SoCalGas reply to protest, pg 5.

established program SCG3837- PUB-SW-Energy Atlas and designated funding based upon SoCalGas' portion of the $2 million allocated per OP 32 of D.18-05-041.[39]

Discussion

In the IOUs' supplemental ABALs filed on October 29, 2018, the IOUs selected SCE as the utility lead for Energy Atlas and stated an anticipated budget and a projected timeline for awarding the contract to a third-party implementer. The timeline suggests that the implementer will be awarded a contract and Energy Atlas expansion work will begin in 2020. Energy Division finds that by selecting SCE as the lead utility and providing an anticipated budget and project timeline, the supplemental ABALs provide adequate detail on Energy Atlas to satisfy LGSEC's protest. Consequently, we reject LGSEC's protest.

The Utility Reform Network Protest and Reply Comments

Over-reliance on savings from Home Energy Reports

On October 4, 2018, The Utility Reform Network (TURN) filed its protest of SDG&E, PG&E, SoCalGas, and SCE ABALS in which it expresses concerns regarding the IOUs' respective energy savings forecasts, the predominance of energy savings from Home Energy Reports, and how a failure to achieve savings from this behavior program may negatively affect the IOUs' respective portfolio TRCs for 2019.

TURN does not ask the Commission to reject the IOUs' ABALs based on the reliance of behavior programs in the 2019 energy savings forecasts. Instead, TURN proposes that, if the Commission is "inclined to approve the 2019 ABALs of PG&E, SCE, SoCalGas and SDG&E," that the approval include the requirement that the IOUs submit a mid-year progress report on the performance of their behavior programs relative to their 2019 energy savings forecasts as presented in their respective ABALs.

In their respective responses SoCalGas and SDG&E all ask the Commission to reject TURN's request for the IOUs to file a mid-year Tier 1 advice letter update on behavior programs, stating that an additional advice letter is unnecessary and burdensome, as the information TURN requests is available to all stakeholders in the monthly and quarterly reports that the IOUs file with the Commission on its public data website, the California Energy and Data Reporting System (CEDARS)[40].

Additionally, SoCalGas and SDG&E point to the 2018 Potential and Goals Study and how their respective savings forecasts from home energy reports align with the savings potential from these programs as described in the study.[41] SDG&E also points to the California Energy Efficiency Coordinating Committee

[39] SoCalGas reply to protest, pg 5.
[40] See SDG&E's Reply to the Protests of Advice Letter 3267-E/2700-G (pp. 2-4) and SoCalGas's Reply to Protests and Response of SoCalGas Advice Letter No. (AL) 5349-G (pp. 5-7).
[41] See SDG&E's Reply to the Protests of Advice Letter 3267-E/2700-G (pp. 2-4) and SoCalGas's Reply to Protests and Response of SoCalGas Advice Letter No. (AL) 5349-G (pp. 5-7).

(CAEECC) discussions that will take place in July or August 2019 in advance of the 2020 ABAL filings as the more suitable venue for review of program administrators savings forecasts. Per Commission directive, program administrators must present drafts of their respective budget requests for 2020 and provide information portfolio- and program-level savings from prior and current years as part of the larger stakeholder review of the ABAL filings. SDG&E argues that TURN may request additional detail and reporting on Home Energy Reports within that larger discussion.

Discussion

The Commission requires the IOUs to file monthly and quarterly reports to CEDARS, the Commission public data repository. The monthly reports provide program level information on gross and net savings achieved by a program in the given report month, as well as a year-to-date total for gross and net savings. The quarterly reports present a more refined variant of the same information presented in the monthly reports and represent the IOUs' "official" program savings claims for the quarter. TURN has full access to these data going back to the inception of the Home Energy Reports program in 2012.

Lastly, the Commission has evaluated various IOU Home Energy Reports programs from the 2010-2012 program cycle up to and through program year 2015; these evaluations are available on the CalMAC website (www.calmac.org), which is the repository of all Commission- and IOU-led evaluations (market, process and impact) dating back to the early 2000s.

Consequently, because of the abundance of program-level information for the IOUs Home Energy Reports program, including multiple impact evaluations from prior-program years, as well as the ABAL review process and parallel desire to reduce regulatory burden, the Commission rejects TURN's request that the IOUs file a mid-year advice letter on behavior program progress.

If you have any questions regarding Energy Division's findings in this non-standard disposition, please contact Peter Franzese regarding administrative costs, behavior programs, the ABAL workshop process, and SoCalGas' portfolio (peter.franzese@cpuc.ca.gov); Nils Strindberg regarding DEER issues and Local Government programs (nils.strindberg@cpuc.ca.gov); or Christina Torok (christina.torok@cpuc.ca.gov) regarding Statewide programs and SDG&E's larger portfolio.

Sincerely,

Edward Randolph, Director
Energy Division

Cc: Service Lists R.13-11-005 and A.17-01-013
Pete Skala, Energy Division
Robert Strauss, Energy Division
Alison LaBonte, Energy Division
Nils Strindberg, Energy Division
Peter Franzese, Energy Division
Christina Torok, Energy Division
Michael Campbell, Public Advocates Office
Daniel Buch, Public Advocates Office
Henry Burton, Public Advocates Office
Hayley Goodson, The Utility Reform Network
Irene Moosen, on behalf of the Local Government Sustainable Energy Coalition

Ronald van der Leeden
Director
Regulatory Affairs

555 W. Fifth Street, GT14D6
Los Angeles, CA 90013-1011
Tel: 213.244.2009
Fax: 213.244.4957
RvanderLeeden@semprautilities.com

October 29, 2018

Advice No. 5349-A
(U 904 G)

Public Utilities Commission of the State of California

Subject: Supplement - Southern California Gas Company Request for Approval of Annual Energy Efficiency Budget Submittal for Program Year 2019

Southern California Gas Company (SoCalGas) hereby submits for approval by the California Public Utilities Commission (CPUC or Commission) its 2019 Energy Efficiency (EE) Program Portfolio budget. The EE Program Portfolio, along with supporting documentation, is incorporated as Appendix A, which have been uploaded to the California Energy Data and Reporting System (CEDARS) website.[1]

Purpose

This submittal replaces Advice No. (AL) 5349 submitted on September 4, 2018, in its entirety. This submittal is made pursuant to an Energy Division request to supplement AL 5349 to include the following information:

- Demonstration that the allocation of Evaluation, Measurement & Verification (EM&V) budgets is in conformance with the direction provided in Decision (D.) 16-08-019.[2]
- Update to the annual budget advice letter (ABAL) budget table based on clarification provided by the Energy Division regarding unspent/uncommitted balances and revisions to ABAL table template.
- Details regarding Energy Atlas in response to OP 32 of D.16-05-041.[3]

[1] https://cedars.sound-data.com.
[2] D.16-08-019, pp. 79-81.
[3] D.18-05-041, p. 189.

Background

On October 24, 2014, the Commission issued D.14-10-046, which authorizes funding for EE programs until 2025.[4] On October 28, 2015, the Commission issued D.15-10-028, which approved the EE rolling portfolio mechanics for 2016 and beyond, and explains that annual advice letter submittals will propose detailed budgets for cost recovery, transfer, and contracting purposes.[5]

On June 5, 2018, the Commission issued D.18-05-041, which approved the 2018 ABAL of SoCalGas (except for $1.0 million requested for the Commercial Energy Advisor program), as well as the 8-year budget proposed in SoCalGas' Business Plan application and incremental budget request of $135.8 million ($19.4 million annually) for years 2019 through 2025.[6]

D.18-05-041 directed the PAs to, beginning with the ABALs due on September 4, 2018, provide the following information in the ABAL submittals:

- Forecasted Total Resource Cost (TRC) must meet or exceed 1.25, except during program years 2019-2022, when the forecasted TRC must meet or exceed 1.0;
- Forecasted energy savings goals must meet or exceed Commission established savings goals for each investor-owned utility (IOU);
- Forecasted budget must not exceed the PA's annual budget in the approved business plans, or (if applicable) the revised annual budget in this ABAL;
- Sector-level Metrics; and
- A description of program and portfolio changes[7]

Additionally, D.18-05-041 directed staff to develop templates and further guidance as needed for the ABAL submissions.[8] On August 22, 2018, Energy Division issued its final ABAL template providing guidance on what shall be submitted in this advice letter, as follows:

- PA's Program Year (PY) Budget and Savings
- Narrative of Program and Portfolio Descriptive Information
    - Proposed program changes
    - Proposed portfolio changes
    - Additional explanations if
        - 1.0 ≤ TRC < 1.25
        - Energy savings forecast < CPUC established goals
- PA's Budget True-up
- PA's Savings True-up

[4] D.14-10-046, OP 21, p. 167.
[5] D.15-10-028, p. 56.
[6] D.18-05-041, OP 14, p. 185.
[7] D.18-05-041, pp. 124-129.
[8] D.18-05-041, OP 40, p. 191.

- IOU allocation for the integrated demand-side management budget, pursuant to OP 10[9]

Energy Division has also directed the PAs to include the program-level budget detail Appendix A as part of the ABAL submittal. Appendix A has been uploaded to the CEDARS website and will be made available on http://www.socalgas.com/regulatory/R13-11-005.shtml. Appendix C of this advice letter provides the CEDARS Filing Confirmation which was printed from the confirmation dashboard upon confirmed completion of the filing through CEDARS.

SoCalGas' 2019 Energy Efficiency Program Year Budget

SoCalGas' 2019 program year budget request is $101,961,000, consistent with D.18-05-041. The 2019 funding request does not include the program budget for the Statewide Marketing, Education & Outreach (ME&O) program, nor the 2019 program budget for the Statewide Financing Pilots.[10] The Southern California Regional Energy Network (SoCalREN) and Tri-County Regional Energy Network (3C-REN) are submitting their own advice letters and associated budgets for PY 2019. Table 1 lists SoCalGas' 2019 budget and the forecasted energy savings, by sector. The SoCalREN and 3C-REN budgets shown in Table 1 reflects SoCalGas' portion of the funds requested, as provided by those PAs, respectively.

[9] OP 10 does not require SoCalGas to provide information for this item. D.18-05-041, p. 184.
[10] The PY 2019 budgets for these programs were approved in D.16-09-020 and D.17-03-026, respectively.

Table 1: SoCalGas 2019 Budget and Savings

Sector	Program Year (2019) Budget ($000's)	SoCalGas PY FORECAST ENERGY SAVINGS (Net) PA forecast GWh	PA forecast MW	PA forecast therms (MM)
Residential	$45,642	2.02	0.85	11.58
Commercial	$19,189	0.30	0.01	4.78
Industrial	$13,498	-	-	4.69
Agriculture	$4,208	0.30	-	1.58
Emerging Tech	$1,484	-	-	-
Public	$8,512	0.004	0.00	1.04
WE&T	$3,657	-	-	-
Finance	$659	-	-	-
OBF Loan Pool	-	-	-	-
IOU Subtotal	$96,849	2.62	0.85	23.67
ESA Savings		-	-	6.87
IOU Total Program Savings (w/out C&S)		2.62	0.85	30.54
	CPUC Program Savings Goal	-	-	22.00
	Forecast savings as % of CPUC Program Savings Goal	-	-	139%
Codes and Standards	$847	-	-	26.00
IOU EM&V	$4,265			
IOU PY Spending Budget Request[1]	$101,961			
(LESS) IOU Uncommitted and Unspent Carryover Balance[2]	$39,829			
IOU PY Budget Recovery Request[3]	$62,132			
IOU Authorized PY Budget Cap (D.18-05-041)	$101,961			
CCA PY Budget Recovery Request (excl. CCA Uncommitted/Unspent Carryover)[4]				
SoCal-REN PY Budget Recovery Request (excl. REN Uncommitted/Unspent Carryover)[4]	$3,473			
3C-REN PY Budget Recovery Request (excl. REN Uncommitted/Unspent Carryover)[4]	$1,193			
Total PA (IOU+CCAs+RENs) PY Recovery Budget[5]	$66,798			
IOU Forecast PY TRC	1.19			
IOU Forecast PY PAC	1.41			
For reference only				
SoCalREN EM&V PY Budget	$40			
3C - REN EM&V PY Budget	$14			
CCA EM&V PY Budget	$0			
EM&V PY PA Budget total	$4,265			

[1] This is what the IOU intends to spend in the PY, including carryovers, as well as the amount by which Statewide 25% requirement will be measured, with the inclusion of statewide program budgets authorized in D.13-09-044 and D.16-09-020.

[2] The balance of all unspent and uncommitted must reflect the total unspent uncommitted for all prior program years up to and through December 31, 2018. In subsequent ABAL filings, beginning September 2019, PAs are expected to apply any unspent uncommitted funds carried over from the prior program year, to avoid the accrual of multiple years of unspent uncommitted funds. Because each ABAL is filed in Q3, this unspent uncommitted amount will be an estimate for the year in which the ABAL is filed. In the case that the total unspent uncommitted funds to apply is greater than the IOU PY Spending Budget Request, and the Budget Recovery Request calculated is negative, you may reset the Budget Recovery Request to "$0" overriding the spreadsheet formula, and note the amount of unspent uncommitted funds that will continue to carry forward to be applied in PY 2020. Note: this line item is IOU only, and does not include REN Uncommitted/Unspent Carryover. REN Uncommitted/Unspent will be identified for the 2020 ABAL.

[3] The amount of funds to be collected (budget recovery) for the Program Year - Line 19 less line 20

[4] Add a separate row for each REN or CCA

[5] Line 25 is a mix of budget spending and budget recovery for all PAs in the IOU service area

Further, SoCalGas' allocation of EM&V budgets is in conformance with the direction provided in D.16-08-019,[11] which maintains EM&V budget levels at 4% of the portfolio budget and funding split accessible to Energy Division and Program Administrators (PAs) of 72.5%/27.5%, respectively. Table 4 of Appendix A provides details regarding the breakdown of the IOU EM&V budget requested, with $3.1 million or 72.5% allocated to the CPUC, and $1.17 million or 27.5% allocated to SoCalGas (inclusive of EM&V budgets allocated to SoCalREN and 3C-REN).

[11] D.16-08-019, pp. 79-81.

SoCalGas 2019 Energy Efficiency Portfolio Savings

SoCalGas provides its portfolio budget forecast and energy savings forecast for its 2019 EE Portfolio in Tables 2 and 3 below. Energy savings forecasted for 2019 are based on all current Commission approved workpaper values as of September 4, 2018. As authorized in D.18-05-041, budgets in future ABALs may be modified based on portfolio need, within the overall funding amount in SoCalGas' 2018-2025 business plan as modified by D.18-05-041.[12] Forecasted and claimed energy savings for the portfolio and each program is available on CEDARS. Greenhouse gas (GHG) savings actuals and goals are also available in SoCalGas' metrics, forecasted information is available on CEDARS.

Table 2: Annual Rolling Portfolio Budget Forecast – True-Up

	Annual Rolling Portfolio Budget Forecast - True-up ($000's)								
Sector	**2018[1]**	**2019**	**2020**	**2021**	**2022**	**2023**	**2024**	**2025**	**Total**
Residential	$ 40,008	$ 45,642	$ 46,271	$ 46,893	$ 47,526	$ 48,167	$ 48,817	$ 49,473	$ 372,797
Commercial	$ 13,438	$ 19,189	$ 20,008	$ 20,835	$ 21,669	$ 22,512	$ 23,362	$ 24,222	$ 165,235
Industrial	$ 20,607	$ 13,498	$ 13,609	$ 13,724	$ 13,842	$ 13,963	$ 14,088	$ 14,217	$ 117,548
Agriculture	$ 3,618	$ 4,208	$ 4,268	$ 4,329	$ 4,391	$ 4,455	$ 4,520	$ 4,588	$ 34,377
Emerging Tech	$ 1,748	$ 1,484	$ 1,517	$ 1,551	$ 1,586	$ 1,621	$ 1,657	$ 1,695	$ 12,859
Public	$ 8,377	$ 8,512	$ 8,765	$ 9,020	$ 9,279	$ 9,542	$ 9,809	$ 10,080	$ 73,384
Codes and Standards	$ 843	$ 847	$ 866	$ 887	$ 906	$ 927	$ 949	$ 970	$ 7,195
WE&T	$ 3,744	$ 3,657	$ 3,750	$ 3,846	$ 3,944	$ 4,045	$ 4,148	$ 4,254	$ 31,388
Finance	$ 2,264	$ 659	$ 674	$ 689	$ 705	$ 721	$ 737	$ 754	$ 7,203
OBF Loan Pool									
Subtotal	$ 94,647	$ 97,696	$ 99,728	$ 101,774	$ 103,848	$ 105,953	$ 108,087	$ 110,253	$ 821,986
SoCalGas EM&V	$ 4,166	$ 4,265	$ 4,336	$ 4,421	$ 4,508	$ 4,595	$ 4,684	$ 4,775	$ 35,750
CCA Programs									
REN Programs	$ 3,257	$ 4,666	$ 4,337	$ 4,337	$ 4,337	$ 4,337	$ 4,337	$ 4,337	$ 33,945
Total Portfolio Program Year PA Budget[2]	$ 102,070	$ 106,627	$ 108,401	$ 110,532	$ 112,693	$ 114,885	$ 117,108	$ 119,365	$ 891,681
Total Authorized Portfolio PY Budget Cap	$ 103,149	$ 106,298	$ 108,401	$ 110,532	$ 112,693	$ 114,885	$ 117,108	$ 119,365	$ 892,431
SoCalGas Portfolio PY Budget Request[4]	$ 98,813	$ 101,961	$ 104,064	$ 106,195	$ 108,356	$ 110,548	$ 112,771	$ 115,028	$ 857,736
SoCalGas Authorized PY Budget Cap[4]	$ 98,813	$ 101,961	$ 104,064	$ 106,195	$ 108,356	$ 110,548	$ 112,771	$ 115,028	$ 857,736
Forecast Portfolio PY TRC - w/out C&S (through 2022)	1.39	1.19	1.21	1.22	1.25	1.25+	1.25+	1.25+	
Forecast Portfolio PY PAC - w/out C&S (through 2022)	1.77	1.41	1.50	1.59	1.61	1.25+	1.25+	1.25+	

[1] "Reset" 2018 budget at or below 2018 annual budget approved in Business plan Decision. "True-up" years 2019-2025.

[2] Total PA Budget equals the denominator by which portfolio 3P bid % will be measured, with the inclusion of budgets authorized in D.13-09-044 and D.16-09-020.

[3] Sum of all PA budgets in IOU Service Area

[4] IOU only Subtotal (Line 14) + IOU EM&V (Line 15)

[12] D.18-05-041, p. 130.

Table 3: Annual Rolling Portfolio Savings Forecast – True-Up (therms)

	Annual Rolling Portfolio Savings Forecast - True-up (therms) (MM)							
Sector	2018	2019	2020	2021	2022	2023	2024	2025
Residential	9.05	11.58	14.56	16.03	16.13	16.78	16.82	17.31
Commercial	3.30	4.78	5.06	5.40	5.73	6.06	6.40	6.73
Industrial	8.82	4.69	4.70	4.70	4.71	5.70	6.09	6.29
Agriculture	1.32	1.58	1.59	1.60	1.61	1.62	1.63	1.64
Emerging Tech	-	-	-	-	-	-	-	-
Public	-	1.04	1.08	1.14	1.19	1.24	1.30	1.36
WE&T	-	-	-	-	-	-	-	-
Finance	-	-	-	-	-	-	-	-
OBF Loan Pool	-	-	-	-	-	-	-	-
IOU - Subtotal	22.48	23.67	26.99	28.86	29.36	31.40	32.23	33.33
ESA Savings	6.54	6.87	6.87	3.00	3.00	3.00	3.00	3.00
SoCalREN	0.10	0.12	0.12	0.13	0.13	0.13	0.14	0.14
3C-REN	-	0.06	0.08	0.11	0.67	0.23	0.24	0.26
Total Forecast Portfolio Savings (w/out C&S)	29.12	30.73	34.07	32.11	33.16	34.76	35.61	36.73
CPUC Goal	20.00	22.00	24.00	26.00	26.00	30.00	29.00	29.00
% of Goal	146%	140%	142%	123%	128%	116%	123%	127%
Codes and Standards	26.00	26.00	30.00	34.00	33.00	33.00	33.00	32.00

SoCalGas Portfolio Cost-Effectiveness

SoCalGas is proposing a portfolio cost-effectiveness based upon approved energy savings and cost-effectiveness inputs to its program and measure mixes, as shown in Table 4 below. The portfolio cost-effectiveness may change as the Commission releases measure dispositions and other key inputs which could reduce or improve portfolio savings and cost-effectiveness. SoCalGas will continue to evaluate its portfolio as cost-effectiveness inputs change.

Table 4: 2019 EE Portfolio Cost- Effectiveness

	Cost-Effectiveness	
	TRC	PAC
Without Codes & Standards	1.19	1.41
With Codes & Standards	1.64	4.16

The SoCalGas TRC and Program Administrator Cost (PAC) cost-effectiveness results reflect the inclusion of the following inputs:

- Uses the updated avoided cost values adopted through Resolution E-4942 in the Cost Effectiveness Tool (version 18.1), released July 20, 2018.
- A 5% market effects adjustment applied to the portfolio, as directed by D.12-11-015, OP 37.
- General Rate Case (GRC) loaders associated with the EE program labor, as directed by D.12-11-015, OP 39.
- A projected shareholder incentive amount associated with the approved

portfolio budget and projected therm savings activity. This assumption conforms to the methodology adopted in the Efficiency Savings and Performance Incentive (ESPI) Mechanism in D.13-09-023.

D.18-05-041 requires claimed and evaluated TRC and PAC of each program and of each sector for the two most recent years for which data is available.[13] As evaluation activity did not occur in 2016, and 2017 and are expected to commence in late 2018, this information is not available to be included in this advice letter. Claimed TRC and PAC for 2016 and 2017 are available on CEDARS. D.18-05-041 also requires a showing of forecasted, claimed and evaluated TRC and PAC at the portfolio going back to the beginning of the Rolling Portfolio (2016).[14] SoCalGas provides this information in Table 5 below.

Table 5: Forecasted, Claimed and Evaluated TRC and PAC

Program Year	Portfolio-level Cost-Effectiveness[1] (Without C&S)					
	Forecast TRC[2,3]	Claimed TRC	Evaluated TRC	Forecast PAC[2,3]	Claimed PAC	Evaluated PAC
2016	-	0.74	Not Available	-	1.07	Not Available
2017	1.22	0.81		1.58	1.12	
2018	1.38	-		1.77	-	

1 Forecasted and Claimed in CEDARS; TRC values exclude costs from SoCalREN, includes benefits from Market Spillover effects, and includes non-resource program costs and forecasted/approved ESPI payments (as applicable).
2 Forecasted PAC and TRC values include General Rate Case (GRC) loaders associated with the EE program labor as directed by D.12-11-015, OP 39.
3 Adopted budget for 2016 was approved via D.14-10-046; no budget compliance filing was completed for 2016.

Program Year	Portfolio-level Cost-Effectiveness[1] (With C&S)					
	Forecast TRC[2,3]	Claimed TRC	Evaluated TRC	Forecast PAC[2,3]	Claimed PAC	Evaluated PAC
2016	-	1.49	Not Available	-	3.72	Not Available
2017	1.50	1.74		3.45	5.42	
2018	1.88	-		4.70	-	

1 Forecasted and Claimed in CEDARS; TRC values exclude costs from SoCalREN, includes benefits from Market Spillover effects, and includes non-resource program costs and forecasted/approved ESPI payments (as applicable).
2 Forecasted PAC and TRC values include General Rate Case (GRC) loaders associated with the EE program labor as directed by D.12-11-015, OP 39.
3 Adopted budget for 2016 was approved via D.14-10-046; no budget compliance filing was completed for 2016.

SoCalGas' 2019 Portfolio Budget Caps and Target

Pursuant to OP 13 of D.09-09-047, the Commission determined that IOU administrative costs are limited to 10% of the total authorized EE budget, Direct Implementation costs have a budget target of 20% of the total adopted budget, and ME&O costs have a budget target of 6% of the adopted portfolio budget. SoCalGas has calculated its portfolio caps and targets for its 2019 portfolio and included them in Table 6 below.

[13] D.18-05-041, p. 124.
[14] D.18-05-041, p. 125.

Table 6: 2019 EE Portfolio Budget Caps/Targets

	Budgets					
	Admin	Marketing	Direct	Incentives	EM&V	Total Budget
2019 EE Budget	$ 8,346,434	$ 5,761,810	$ 38,442,425	$ 45,145,269	$ 4,265,062	$ 101,961,000
GRC Labor Loaders	$ 5,406,244	$ 162,368	$ 1,009,803	$ -	$ -	$ 6,578,415
OBF Loan Pool						$ -
New Financing Pilots	$ 174,900	$ 209,880	$ 664,620	$ 699,600		$ 1,749,000
Statewide ME&O		$ 1,578,000				$ 1,578,000
Total EE Funding						**$ 111,866,415**
SoCalREN & 3C-REN						$ 4,666,000
Total EE Funding with SoCalREN & 3C-REN						**$ 116,532,415**
Parameter Type	Cap	Target	Target		Budget	
Cap / Target Level	$ 9,708,067	$ 5,755,116	$ 28,178,981	$ 42,243,408	$ 4,265,062	
Total Budget for Calculation	$ 111,866,415	$ 111,866,415	$ 111,866,415	$ 111,866,415	$ 106,627,000	
Cap / Target Percent	8.7%	5.1%	25.2%	37.8%	4.0%	
Cap / Targets	10.0%	6.0%	20.0%	60.0%	4.0%	

SoCalGas notes the following assumptions:

- SoCalGas On-Bill Financing Program loan pool is recovered in gas transportation rates. However, SoCalGas is not requesting incremental funding for this program in 2019.
- Pursuant to D.13-12-038, the Statewide ME&O program costs are excluded from the marketing budget target.
- SoCalGas has calculated the IOU administrative cost cap in accordance with D.09-09-047 OP 13 which excludes associated third party and local government partnership administrative costs, as well as non-resource programs which meet the requirements as further described in D.09-09-047.[15] These programs include EM&V, Marketing and Outreach, Emerging Technologies, Codes & Standards, Workforce Education & Training, and programs supporting market transformation. SoCalGas' IOU administrative budget against the cap is $4.3 million. When added together with the GRC labor loader value of $5.4 million, SoCalGas' percentage against the IOU administrative cost cap is 8.7%, as shown in Table 6 above.
- D.14-10-046, as corrected by D.15-01-002, confirms the evaluation, measurement, and verification budget at 4% of the total budget.

SoCalGas will report the status of its budget caps and targets based on actual expenditures in its quarterly reports submitted through the Commission's EESTATS website.

[15] D.09-09-047, pp. 50-51.

SoCalGas PY 2019 Portfolio and Program Changes

In an effort to help meet the Commission's EE goals, SoCalGas is proposing the following portfolio and programmatic changes to its 2019 EE Portfolio. These changes include consideration of the transition to new third-party programs that are proposed, designed, implemented, and delivered by non-utility entities.[16] Pursuant to D.18-01-004, Addressing Third Party Solicitation Process for Energy Efficiency Programs, SoCalGas must ensure that its EE portfolio contains a specific percentage of third party designated and implemented programs by the date provided in Table 7 below.

Table 7: Third Party Designated and Implemented Programs

Date	Third party percentage minimum
By December 31, 2018[17]	25%
By December 31, 2020	40%
By December 31, 2022	60%

Working towards its goal, SoCalGas plans to conduct a two-stage solicitation process where bidders must first submit a Request for Abstract (RFA). If selected to move forward in the process, bidders will then participate in a full Request for Proposal (RFP). SoCalGas is proposing to continue several programs in 2019 which are not forecasted to have a TRC above 1.0. The continuance of these programs will provide support to SoCalGas' EE portfolio through the transition period. SoCalGas will continue to evaluate its portfolio of programs in response to the third-party programs solicitation process, cost-effectiveness, and the ability to achieve goals.

Expanded and Reduced Programs

SoCalGas provides the following discussion regarding significant program changes (i.e., more than 40% change in funding) that are necessary to better align with programs offered, meet expected energy savings, and target a forecasted TRC of 1.25. Tables 8 and 9 provide a list of programs that will be expanded and reduced (i.e., by more than 40%) in 2019, respectively.

[16] D.16-08-019, OP 10.

[17] Pursuant to D.18-01-004, third-party programs created under the definition in place prior to D.16-08-019 are allowed to count towards the requirements for 2018 only.

Table 8: Expanded Program for PY 2019

Program Name	Program Change Description
Plug Load and Appliances (PLA) Program - SCG3702	In 2019, SoCalGas will increase PLA program funding based on customer needs and segmentation. SoCalGas will also rename the program to "Residential Energy Efficiency Program" to avoid customer confusion with the new PLA Statewide Program. This program will encompass single family, multifamily, and deemed homes. This will enable SoCalGas to better serve its residential customers more effectively. For reporting purposes, SoCalGas will split out the retail vendor marketing efforts currently identified in the PLA program into a new program known as Retail Partnering (SCG3830), as well as Energy Efficiency Kits.
Commercial Non-Residential HVAC Upstream - SCG3712	Funding for the Commercial Non-Residential HVAC Upstream program will increase in 2019 to accommodate the added focus on commercial customers, HVAC contractors, and HVAC distributors and manufacturers with program support services and incentives to ease the market barriers to purchasing and properly installing new high-efficiency equipment and maintaining existing HVAC systems at optimal efficiency. The program will also contain HVAC Quality Installation and Quality Maintenance efforts to better align with the statewide program efforts adopted in D.18-05-041, related to HVAC Quality Installation/Quality Maintenance (QI/QM). As the statewide upstream HVAC program is not scheduled by San Diego Gas & Electric (SDG&E) for launch until 2020, this activity will remain local in 2019.
Industrial Continuous Energy Improvement (CEI) Program - SCG3714	Funding for the Industrial CEI program will increase in 2019 as SoCalGas expands the scope of the program and consolidates all strategic energy management (SEM) activities. The program will also undergo a name change to Strategic Energy Management.
Agricultural Deemed Incentives - SCG3720	In 2019, funding for Agricultural Deemed Incentives will increase to refocus SoCalGas' effort to include outreach to small/medium farms. SoCalGas will also further partner with Agriculture Organizations such as the University of California Co-Op and farming organizations.

Community Language Efficiency Outreach (CLEO) - SCG3762	The budget for SoCalGas' CLEO program will increase in 2019 to support expansion of the programs' scope to include commercial/residential measure installations and additional outreach in-language to disadvantaged communities. This program will enable SoCalGas to use in-line language outreach as a platform to install measures in communities in which there is a language barrier.
IDEEA365 - Instant Rebates! Point of Sale (POS) - SCG3793	The budget for this program is increasing due to the market potential of the program and an increase in customer demand as a result of SoCalGas' efforts to streamline the program in 2019 to explore program delivery methods that test new cost-cutting aspects of the program before the statewide PLA program launches.
Assembly Bills (AB) 793 Residential Energy Management Technology Solution (REMTS) Program - SCG3810	Pursuant to Resolution G-4820, the REMTS program completed the third-party solicitation process in 2018. Implementation of the program will begin in 2019, along with appropriate allocation of its budget.
Residential Behavioral Program - SCG3824	SoCalGas will continue to expand and build upon its Home Energy Report and Seasonal Savings programs under the behavioral umbrella. The Home Energy Reports will reach more than 1.4 million customers in 2019. The anticipated savings from the behavioral programs is expected to save approximately 7 million therms.

Table 9: Reduced Programs for PY 2019

Program Name	Program Change Description
Plug Load and Appliance (PLA) - Point of Sale (POS) - SCG3703	SoCalGas will decrease the PLA POS Program budget in 2019 as SoCalGas focuses on increasing technology-based solutions that allow SoCalGas to enable customer engagement and achieve higher energy savings in a more cost-effective manner. As the statewide PLA POS program is not scheduled by SDG&E for launch until 2020, this activity will remain local in 2019.

Home Upgrade Program (HUP) - SCG3705	SoCalGas will reduce the budget for the HUP in order to align with SoCalGas' residential sector objectives and support the program's ability to achieve expected cost-effectiveness levels. SoCalGas has also revised the scope of this program, removing the Middle Income Direct Install (MIDI) program. In 2019, the MIDI program will become its own standalone program and the program name will be changed to the Residential Direct Install program (SCG3820).
Residential Heating, Ventilation, and Air Conditioning (HVAC) Upstream - SCG3706	Funding for the Residential HVAC Upstream program will be reduced in 2019 as SoCalGas splits out the scope of the current program to establish standalone programs to align with the statewide efforts related to HVAC upstream and HVAC QI/QM. The current program contains HVAC Upstream and HVAC QI/QM. The Residential HVAC Upstream program will continue to focus on HVAC efforts in 2019, while all HVAC QI/QM efforts will be rolled into the Residential HVAC QI/QM (SCG3823). As the statewide upstream HVAC program and HVAC QI/QM programs are not scheduled by SDG&E for launch until 2020 and 2021, respectively, these activities will remain local in 2019.
Commercial Calculated Incentives - SCG3710	Funding for the Commercial Calculated Incentives program will be reduced as SoCalGas revises the scope of the program to remove the sub-program Savings By Design (SBD), and establish the SBD program as a standalone program which will align with the statewide programs adopted in D.18-05-041. As non-residential new construction is not scheduled by PG&E for launch until 2020, this activity will remain local in 2019.
Commercial Deemed Incentives - SCG3711	To better align with the implementation of SoCalGas' Business Plan, the scope of SoCalGas' Commercial Deemed Incentives program will be revised to remove all efforts directed to the public sector and midstream water heating. As such, funding for this program will be reduced. In 2019, SoCalGas plans to incorporate all public-related activities into a Deemed Program focused on the public sector, and will solicit program designs from third-parties. The program's current midstream water heating efforts will be incorporated into a new standalone program for statewide treatment.

Industrial Calculated Incentives - SCG3715	To better align with the implementation of SoCalGas' Business Plan, the scope of the Industrial Calculated Incentives program will be revised to focus on sub-segments, such as food manufacturing and beverages. Although SoCalGas is reducing its budget in the Industrial Calculated Program, SoCalGas is still focused on working with the Energy Division to improve the calculated process.
Industrial Deemed Incentives - SCG3716	To better align with the implementation of SoCalGas' Business Plan, the scope of the Industrial Deemed Incentives program will be revised to focus on Industrial Direct Install, and SoCalGas will solicit program designs from third-parties. Although SoCalGas is reducing its budget in the Industrial Deemed Program, SoCalGas is still exploring new ways to improve its program.
Agricultural Calculated Incentives - SCG3719	To better align with the implementation of SoCalGas' Business Plan, the scope of the Agricultural Calculated Incentives program will be revised to focus on sub-segments, such as small green houses/urban farming. Although SoCalGas is reducing its budget in the Agricultural Calculated Program, SoCalGas is still focused on working with the Energy Division to improve the calculated process.

Closed Programs

SoCalGas plans to close the following programs, shown in Table 10. Some of these programs have been in the market for two to three years without any significant market penetration. Given the dynamic changes in EE and the lack of market acceptance within each of the programs' respective sub-segments, these programs are no longer viable.

Table 10: Program Closures for PY 2019

Program Number	Program Name	Reason for Closure
SCG3704	RES - Multifamily Energy Efficiency Program	SoCalGas will be consolidating all of its downstream rebate application programs under SCG3702 (PLA Program), which will be renamed to Residential Energy Efficiency Program.

SCG3768	3P - CA Sustainability Alliance	SoCalGas is proposing to close this non-resource program. The activities are being consolidated with other existing activities in the portfolio and the funds will be shifted to other cost-effective programs.
SCG3769	3P-Portfolio of the Future (POF)	SoCalGas is proposing to close this program. The activities are being consolidated with others elsewhere in the portfolio and the funds will be shifted to other cost-effective programs.
SCG3770	3P- PACE Energy Savings Project	SoCalGas has consolidated its in-language and disadvantaged community outreach activities. As a result, this program activity is duplicative and is being proposed to be closed. The funds will be shifted into cost-effective resource program activities. SoCalGas' proposed solicitation process and schedule will seek new third-party program designs to outreach to disadvantaged communities.
SCG3798	3P-IDEEA365 - Connect	SoCalGas is proposing to close this program due to the inability to meet established program goals. This includes a declining cost-effectiveness of the program and increasing program costs, a trend which continued through 2018.
SCG3736	ARRA- Originated Financing – EmPower Central Coast Financing program	After careful consideration and on-going evaluation of the program's expenditures related to loan generation, the IOUs have determined that the program has not achieved the level of unsecured loans and EE projects to make it cost-effective. A contributing factor has been a lack of success in generation of direct participation in IOU EE residential rebate programs, particularly with respect to participation in Energy Upgrade CA. Other reasons for program closure include the recent Tri-County Regional Energy Network (3C-REN) approval to move forward with a program that will include WE&T in the same counties for contractors and the Residential Energy Efficiency

		Loan (REEL) program which is duplicative of EmPower's residential home loan efforts.
SCG3731	WE&T Strategic Planning	The framework for the WE&T Strategic Planning and Implementation subprogram no longer aligns with the current statewide framework for planning, coordinating and implementing WE&T activities and recommendations in meeting WE&T goals. These funds will be used to fund additional WE&T activities, including the new Statewide Career Workforce Readiness program.
SCG3806	Water Energy Nexus Shared Network Advanced Meter Infrastructure (AMI) Pilot	In 2016, SoCalGas launched two Water Energy Nexus AMI Pilots with California American Water and San Gabriel Valley Water Company. These pilot activities have concluded and no new Water Energy Nexus pilots will be implemented in 2019.
SCG3709	Commercial Continuous Energy Improvement (CEI)	The Commercial CEI program's scope originally included some strategic energy management efforts. In 2017, the Commission and IOUs developed a standalone SEM program (for industrial customers only) within the IOU energy efficiency portfolios. SoCalGas is closing all of its CEI activities and consolidating under one Industrial SEM program.
SCG3718	Agricultural CEI	The Agricultural CEI program's scope originally included some strategic energy management efforts. In 2017, the Commission and IOUs developed a standalone SEM program (for industrial customers only) within the IOU EE portfolios. SoCalGas is closing all of its CEI activities and consolidating under one Industrial SEM program.

Standalone Programs

In addition to the third-party programs that will be forthcoming through SoCalGas' solicitation efforts beginning in 2019, SoCalGas' has revised the reporting relationship of its existing programs to better align with the implementation of SoCalGas' Business Plan and the Statewide Programs adopted in D.18-05-041.

- SCG3813 - Commercial Savings By Design Program (Statewide)
- SCG3814 - Commercial Midstream Water Heating Program (Statewide)
- SCG3825 - Commercial HVAC QI/QM
- SCG3834 - Commercial Los Angeles Department of Water and Power (LADWP) Direct Install Program
- SCG3835 - Commercial Pasadena Direct Install Program
- SCG3815 - Public Calculated Incentives Program
- SCG3816 - Public Deemed Incentives Program
- SCG3817 - Public Direct Install Program
- SCG3823 - Residential HVAC QI/QM (Statewide)
- SCG3824 - Residential Behavioral Program
- SCG3829 - Residential Marketplace Program
- SCG3830 - Residential Retail Partnering Program
- SCG3831 - Residential Energy Efficiency Kits Program
- SCG3832 - Residential Pasadena Home Upgrade Program
- SCG3833 - Residential Burbank Home Upgrade Program
- SCG3836 - Residential LADWP HVAC Program

New Programs

With the exception of SCG3828, the following programs are solicitation placeholders for the third-party programs that will be forthcoming through SoCalGas' solicitation efforts beginning in 2019. The Residential Home Intel program (SCG3828) is a Southern California Edison-led pay-for-performance program. SoCalGas is partnering with Southern California Edison to offer this program to shared customers.

- SCG3822 - Agricultural Direct Install Program
- SCG3826 - Commercial Lodging Program
- SCG3827 - Commercial Mixed-Use Building Program
- SCG3821 - Industrial Direct Install Program
- SCG3837 - Public Energy Atlas Program (Statewide)
- SCG3818 - Public Water/Wastewater Pumping Program (Statewide)
- SCG3819 - WE&T Career & Workforce Readiness Program (Statewide)

In D.18-05-041, the Commission directed the IOU PAs to select a lead to oversee the statewide deployment of Energy Atlas and competitively solicit a third party to implement the deployment, maintain data quality, consistency and security, continue development of the Energy Atlas' capabilities and encourage and support local

governments that choose to participate.[18] With the concurrence of and ongoing coordination between Pacific Gas & Electric Company, San Diego Gas & Electric Company, and SoCalGas, Southern California Edison (SCE),will be the lead for representing the IOUs in the statewide deployment of Energy Atlas.

Therefore, for purposes of the annual budget advice letters, the collective budget of $2 million for development and expansion is a placeholder only and based upon the maximum amount allowed in D.18-05-041. The Energy Atlas development, deployment and maintenance costs are highly uncertain as no implementation plan or scope has yet to be agreed upon by the IOUs and will be limited and capped at $2 million. The IOUs will work to minimize these costs as they coordinate on implementation and leverage existing work; it is expected that 2020 budget numbers will be refined in the future to reflect cost forecasts and actual costs incurred as long as they are within the $2 million cost cap. Total annual placeholder budgets by IOU and their budget shares are provided in Table 11 below. The IOUs have based the budget shares on the relative percentages of their combined 2019 Public Sector budgets.

Table 11. Energy Atlas Budget Details

Energy Atlas Budget Details								
	SCE		PG&E		SDG&E		SCG	
	2019	2020	2019	2020	2019	2020	2019	2020
Requirements Development & Third Party Solicitation	$60,000	$0	$0	$0	$0	$0	$0	$0
Ongoing Maintenance [1]	$84,083	$84,083	$141,214	$141,214	$45,147	$45,147	$29,556	[4]
Development & Expansion	$0	$560,553	$0	$941,428	$0	$300,980	$223,725	[4]
Total Annual Budget	**$144,083**	**$644,636**	**$141,214**	**$1,082,642**	**$45,147**	**$346,127**	**$253,281**	**$0**
IOU Budget Percentages [2]	28%		47%		15%		10%	

[1] Ongoing maintenance budgets are based on the annual maintenance costs from prior years

[2] Excludes SCE's requirements development and third party solicitation costs

[3] IOU budget percentages are derived from the IOUs' 2019 Public Sector budgets

[4] SoCalGas budgeted for maintenance and development/expansion in 2019. Any funds not spent will be encumbered for use in 2020.

Plan for Achieving a Forecasted TRC of 1.25 and Evaluated TRC of 1.0

Pursuant to D.18-05-041, any ABAL that includes a forecast portfolio TRC between 1.0 and 1.25 during the 2019-2022 ramp years should include: an explanation of why the PA is not proposing a portfolio that meets a 1.25 TRC; why the PA is confident that it will meet the evaluated 1.0 TRC for each year; and how the PA intends to lower costs or increase savings going forward.

One of the most recent challenges in achieving a 1.25 TRC has been the change to the avoided costs. In 2019, these changes have reduced EE benefits by 21% compared to the avoided costs effective in 2018. If the 2018 avoided costs would be applied to SoCalGas' 2019 EE portfolio budget, SoCalGas estimates that the portfolio would have

[18] D.18-05-041, OP 32.

achieved a TRC of 1.40. The avoided cost update that affects SoCalGas is decreasing natural gas prices.

SoCalGas is continuously working towards achieving a cost-effective EE portfolio that meets the objectives of D.18-05-041. The focus on cost-effectiveness within SoCalGas' portfolio will be placed on the third-party solicitation process whereby SoCalGas plans to refresh market segment approaches with new cost-effective contracts. SoCalGas is also looking to expand program partnerships with municipal electric utilities, water agencies, and air quality districts which help drive down administrative costs and develop more holistic program offerings that provide added benefits to customers and are ultimately more cost-effective. Additionally, SoCalGas plans to expand its residential behavior program offerings aimed at achieving higher level of savings through outreach to more residential customers. These strategies to ensure SoCalGas' prospective portfolio TRC of 1.25 should also help ensure that an evaluated TRC of 1.0 is achieved in 2019.

Metrics

Pursuant to D.18-05-041,[19] SoCalGas provides its 2017 sector-level metrics in Appendix B.

Revenue Requirements

Table 12 below summarizes the revenue requirement impact by class of service. In addition, SoCalGas provides herein as Appendix A the Gas Bill Payer Impacts table comparing present and proposed rates associated with the inclusion of SoCalGas' proposed 2019 budget in its gas transportation rates.

Table 12: Revenue Requirement by Customer Class

Customer Class	Applicable Rate Schedules	Increase/(Decrease)
Core	GR, GS, GM, GO-AC, G-NGVR, GL, G-10, G-AC, G-EN, G-NGV	($7,139)
Non-Core	GT-F, GT-I, GT-TLS	($591)
Total		**($7,730)**

[19] D.18-05-041, p. 127.

Changes to the Advice Letter

The following updates have been incorporated into this submittal:

1. Tables related to prior program year unspent and uncommitted funds are updated based on the clarification provided by Energy Division staff.
2. Revenue and rate collection and funding source tables are updated to reflect the updates to prior year unspent and uncommitted funds.
3. Minor corrections to typographical errors are incorporated.
4. Additional information related to the cap and targets calculation.
5. Additional information regarding expanded programs is provided in Table 8.
6. Update of the cancelled program status to SCG3761in Table 4 of Appendix A. This program was cancelled in 2017.

Protests

Anyone may protest this advice letter to the Commission. The protest must state the grounds upon which it is based, including such items as financial and service impact, and should be submitted expeditiously. The protest must be made in writing and received within 5 business days of the date of this advice letter, which is November 5, 2018. The address for mailing or delivering a protest to the Commission is:

CPUC Energy Division
Attn: Tariff Unit
505 Van Ness Avenue
San Francisco, CA 94102

Copies of the protest should also be sent via e-mail to the Energy Division Tariff Unit (EDTariffUnit@cpuc.ca.gov). A copy of the protest should also be sent via both e-mail and facsimile to the address shown below on the same date it is mailed or delivered to the Commission.

Attn: Ray B. Ortiz
Tariff Manager - GT14D6
555 West Fifth Street
Los Angeles, CA 90013-1011
Facsimile No.: (213) 244-4957
E-mail: ROrtiz@SempraUtilities.com

Effective Date

SoCalGas believes that this advice letter is subject to Energy Division disposition and should be classified as Tier 2 (effective after staff approval) pursuant to General Order (GO) 96-B. This submittal is consistent with D.18-05-041. Therefore, SoCalGas respectfully requests that this submittal be approved on November 28, 2018, which is 30 calendar days after the date submitted.

Notice

A copy of this advice letter is being sent to SoCalGas' GO 96-B service list and the Commission's service lists for R.13-11-005 and A.17-01-013, et al. Address change requests to the GO 96-B service list should be directed by e-mail to tariffs@socalgas.com or call 213-244-2837. For changes to all other service lists, please contact the Commission's Process Office at 415-703-2021 or by e-mail at Process_Office@cpuc.ca.gov.

_____

Ronald van der Leeden
Director – Regulatory Affairs

Attachments

California Public Utilities Commission

ADVICE LETTER SUMMARY

ENERGY UTILITY

MUST BE COMPLETED BY UTILITY (Attach additional pages as needed)

Company name/CPUC Utility No.:

Utility type:

☐ ELC ☐ GAS ☐ WATER

☐ PLC ☐ HEAT

Contact Person:
Phone #:
E-mail:
E-mail Disposition Notice to:

EXPLANATION OF UTILITY TYPE

ELC = Electric GAS = Gas WATER = Water
PLC = Pipeline HEAT = Heat

(Date Submitted / Received Stamp by CPUC)

Advice Letter (AL) #:

Tier Designation:

Subject of AL:

Keywords (choose from CPUC listing):

AL Type: ☐ Monthly ☐ Quarterly ☐ Annual ☐ One-Time ☐ Other:

If AL submitted in compliance with a Commission order, indicate relevant Decision/Resolution #:

Does AL replace a withdrawn or rejected AL? If so, identify the prior AL:

Summarize differences between the AL and the prior withdrawn or rejected AL:

Confidential treatment requested? ☐ Yes ☐ No

If yes, specification of confidential information:
Confidential information will be made available to appropriate parties who execute a nondisclosure agreement. Name and contact information to request nondisclosure agreement/ access to confidential information:

Resolution required? ☐ Yes ☐ No

Requested effective date:

No. of tariff sheets:

Estimated system annual revenue effect (%):

Estimated system average rate effect (%):

When rates are affected by AL, include attachment in AL showing average rate effects on customer classes (residential, small commercial, large C/I, agricultural, lighting).

Tariff schedules affected:

Service affected and changes proposed[1]:

Pending advice letters that revise the same tariff sheets:

[1]Discuss in AL if more space is needed.

Protests and all other correspondence regarding this AL are due no later than 20 days after the date of this submittal, unless otherwise authorized by the Commission, and shall be sent to:

CPUC, Energy Division Attention: Tariff Unit 505 Van Ness Avenue San Francisco, CA 94102 Email: EDTariffUnit@cpuc.ca.gov	Name: Title: Utility Name: Address: City: State: Telephone (xxx) xxx-xxxx: Facsimile (xxx) xxx-xxxx: Email:
	Name: Title: Utility Name: Address: City: State: Telephone (xxx) xxx-xxxx: Facsimile (xxx) xxx-xxxx: Email:

APPENDIX A

Advice No. 5349-A

Energy Efficiency Program Portfolio

Appendix A - Budget Filing Appendix
PA Name: SoCalGas
Budget Year: 2019

Table 1 -Bill Payer Impacts - Rates by Customer Class				
	Electric Average Rate (Res and Non-Res) $/kwh	**Gas Average Rate (Res and Non-Res) $/therm**	**Total Average Bill Savings by Year ($)**	**Total Average Lifecycle Bill Savings ($)**
Present Rates - System Average				
2013	$ -	$ 0.97	$ 25,170,200	$ 254,241,085
2014	$ -	$ 1.16	$ 31,505,918	$ 338,528,091
2015	$ -	$ 1.16	$ 29,661,771	$ 187,282,582
2016	$ -	$ 1.10	$ 39,684,666	$ 187,073,863
2017	$ -	$ 1.10	$ 44,183,430	$ 161,920,337
2018	$ -	$ 1.10	$ 71,743,456	$ 462,464,628
2019	$ -	$ 1.09	$ 77,900,162	$ 382,775,531

[1] Average first year gas bill savings is calculated by multiplying an average gas rate with first year gross therm energy savings.
[2] Total Average Bill Savings by Year includes C&S and ESA Programs.
[3] Total Average Lifecycle Bill Savings does not include C&S and ESA programs.
[4] Average lifecycle gas bill savings is calculated by multiplying an average gas rate with lifecycle gross therm energy savings.
[5] Forecasted savings for 2013-2015 savings are taken from the 2015 energy efficiency annual report.

Appendix A - Budget Filing Appendix
PA Name: SoCalGas
Budget Year: 2019

Table 2b - Gas Bill Payer Impacts - Current and Proposed Revenues and Rates, Total and Energy Efficiency, by Customer Class

Customer Classes	2017 Total Gas Annual Revenue $000	2017 Energy Efficiency Portion of Total Gas Annual Revenue $000	2018 Energy Efficiency Portion of Total Gas Annual Revenue $000	2019 Proposed Energy Efficiency Gas Annual Revenue Change $000	2019 Proposed Percentage Change In Gas Revenue and Rates	2017 Gas Average Rate $/kwh	2017 Energy Efficiency Portion of Gas Average Rate $/kwh	2018 Gas Average Rate $/kwh	2018 Energy Efficiency Portion of Gas Average Rate $/kwh	2019 Proposed Gas Average Rate Change $/kwh	2019 Proposed Percentage Change In Gas Revenue and Rates
Residential	$ 223,651	$ 33,890	$ 29,470	$ 26,413	-10.4%	$ 0.09842	0.01491	$ 0.09402	0.01294	$ (0.00126)	-1.3%
Core Commercial/Industrial	$ 72,098	$ 44,345	$ 38,561	$ 34,561	-10.4%	$ 0.07134	0.04388	$ 0.06416	0.03815	$ (0.00395)	-6.2%
Gas Air Conditioning	$ 84	$ 64	$ 55	$ 50	-10.4%	$ 0.10906	0.08260	$ 0.09680	0.07182	$ (0.00745)	-7.7%
Gas Engine	$ 1,415	$ 852	$ 741	$ 664	-10.4%	$ 0.06834	0.04117	$ 0.06150	0.03580	$ (0.00371)	-6.0%
Non-Core Commercial/Industrial	$ 46,074	$ 6,555	$ 5,700	$ 5,109	-10.4%	$ 0.03042	0.00433	$ 0.02834	0.00375	$ (0.00039)	-1.4%

[1] Proposed Change in Annual Revenue for Energy Efficiency programs as compared to current Energy Efficiency Revenue by customer class.
[2] Represents the change in the amounts collected through the Public Purpose Program Surcharge for Energy Efficiency. $2.647 million is not included in this amount.
[3] Proposed Change in the Energy Efficiency Component of the Public Purpose Program Surcharge by customer class.
[4] Represents the % change in the Energy Efficiency component of the Public Purpose Program Surcharge.
[5] Proposed revenue and rate changes compare to total revenues and rates effective January 1, 2019.
[6] Values shown associated with proposed 2019 SoCalGas EE budget to be collected in rates only. Does not include statewide ME&O budget.

Appendix A - Budget Filing Appendix
PA Name: SoCalGas
Budget Yea 2019

Table 3 - Budget and Cost Recovery by Funding Source

	2019
2019 EE Portfolio Budget	$106,626,555
Unspent/Uncommitted EM&V Carryover Funds from 2018	$ -
Unspent/Uncommitted Program Carryover Funds from 2018 and prior years	$ 39,829,423
Total Funding Request for 2019 EE Portfolio	**$ 66,797,132**

Budget by Funding Source

2019 Authorized (Before Carryover)	2019 Budget	Allocation
Electric Procurement EE Funds	$ -	
Gas PPP Surcharge Funds	$106,626,555	100%
Total Funds	**$106,626,555**	

Revenue Requirement for Cost Recovery by Funding Source

2019 Authorized Funding in Rates (including 2018 and prior years carryover)	2019 Revenue Requirement	Allocation after Carryover adjustment
Electric Procurement EE Funds	$ -	$ -
Gas PPP Surcharge Funds	$ 66,797,132	$ 66,797,132
Total Funds	**$ 66,797,132**	**$ 66,797,132**

Unspent/Uncommitted Carryover Funds (in positive $ amounts)

Total Unspent/Uncommitted Funds	Electric PGC	Electric Procurement	Total Electric	Gas	Total
2018				$ 2,806,988	$ 2,806,988
2017				$ 37,022,435	$ 37,022,435
2016				$ -	$ -
2013-2015				$ -	$ -
Total Pre-2019				**$ 39,829,423**	**$ 39,829,423**

EM&V Unspent/Uncommitted Funds	Electric PGC	Electric Procurement	Total Electric	Gas	Total
2018				$ -	$ -
2017				$ -	$ -
2016				$ -	$ -
2013-2015				$ -	$ -
Total Pre-2019				**$ -**	**$ -**

Program Unspent/Uncommitted Funds	Electric PGC	Electric Procurement	Total Electric	Gas	Total
2018				$ 2,806,988	$ 2,806,988
2017				$ 37,022,435	$ 37,022,435
2016				$ -	$ -
2013-2015				$ -	$ -
Total Pre-2019				**$ 39,829,423**	**$ 39,829,423**

[1] 2017 unspent figure is for 2017 and prior cycle unspent funds

Appendix A - Budget Filing Appendix
PA Name: SoCalGas
Budget Year: 2019

Table 4 – Budget, Spent, Unspent, Carryover Details

2013-2015 Budget, Spent, Unspent and Carryover

New/Existing Program #	Main Program Name / Sub-Program Name	2015 Authorized Budget	2015 Total Budget with Commitments & Fundshifts	2015 Total Budget Spent	Pre-2013 Commitments Remaining as of 06/2018	2013-2015 Unspent/Uncommited Funds Returned to Ratepayers	2013-2015 Commitments as of 12/31/15	Pre-2016 Unspent/Uncommitted Funds Available for 2019 offset
	Residential Energy Efficiency Programs Total	**28,759,265**	**38,553,200**	**28,662,777**	**247,967**	**-**	**5,345,672**	**-**
SCG3701	RES-Energy Advisor	757,889	1,447,393	135,132	103,435	-	689,503	-
SCG3702	RES-Residential Energy Efficiency Program	4,193,046	4,325,805	6,329,113	-	-	132,759	-
SCG3703	RES-SW-Plug Load and Appliances - POS	2,287,108	5,400,070	2,624,813	-	-	1,212,962	-
SCG3704	RES-MFEER	1,328,972	2,758,647	851,267	-	-	1,429,675	-
SCG3705	RES-Home Upgrade Program	6,767,345	4,867,345	7,033,701	-	-	-	-
SCG3706	RES-Residential HVAC Upstream	1,409,054	2,552,157	16,558	-	-	1,143,103	-
SCG3707	RES-SW-RNC	2,835,928	3,573,599	3,651,638	144,532	-	737,670	-
SCG3759	RES-On Demand Efficiency	2,545,075	2,737,411	2,762,678	-	-	-	-
SCG3761	3P-MF Home Tune-Up	1,141,315	1,237,310	917,965	-	-	-	-
SCG3762	RES-CLEO	265,080	265,080	280,899	-	-	-	-
SCG3763	RES-MF Direct Therm Savings	1,535,809	2,140,379	1,698,955	-	-	-	-
SCG3764	RES-LivingWise	803,634	981,203	987,793	-	-	-	-
SCG3765	RES-Manufactured Mobile Home	2,889,009	6,083,035	1,304,505	-	-	-	-
SCG3799	3P-IDEEA365-HBEEP	-	183,769	67,761	-	-	-	-
SCG3808	RES-HOPPS-CWHMBS Program	-	-	-	-	-	-	-
SCG3810	RES-AB793-REMTS Program	-	-	-	-	-	-	-
SCG3820	RES-Direct Install Program	-	-	-	-	-	-	-
SCG3823	RES-SW-HVAC QI/QM	-	-	-	-	-	-	-
SCG3824	RES-Behavioral Program	-	-	-	-	-	-	-
SCG3828	RES-Home Intel Program	-	-	-	-	-	-	-
SCG3829	RES-Marketplace	-	-	-	-	-	-	-
SCG3830	RES-Retail Partnering	-	-	-	-	-	-	-
SCG3831	RES-EE Kits	-	-	-	-	-	-	-
SCG3832	RES-Pasadena Home Upgrade	-	-	-	-	-	-	-
SCG3833	RES-Burbank Home Upgrade	-	-	-	-	-	-	-
SCG3836	RES-LADWP HVAC	-	-	-	-	-	-	-
	Commercial Programs Total	**11,284,422**	**19,092,288**	**12,484,780**	**83,415**	**-**	**4,416,219**	**-**
SCG3708	COM-Energy Advisor	516,008	603,508	498,213	-	-	-	-
SCG3709	COM-CEI	200,329	251,699	410,114	-	-	-	-
SCG3710	COM-Calculated Incentives	5,195,394	7,411,710	3,567,649	83,415	-	2,216,316	-
SCG3711	COM-Deemed Incentives	4,497,331	5,122,576	5,063,505	-	-	602,188	-
SCG3712	COM-SW-NonRes HVAC Upstream	328,282	328,282	22,831	-	-	-	-
SCG3756	3P-Energy Challenger	-	3,633	(1,275)	-	-	-	-
SCG3766	3P-Save Gas	-	608,806	4,504	-	-	-	-
SCG3793	COM-SW-Instant Rebates! Foodservice POS	547,078	2,144,793	1,915,728	-	-	1,597,715	-
SCG3794	3P-IDEEA365-Water Loss Control Program	-	18,354	168,839	-	-	-	-
SCG3795	3P-IDEEA365-Commercial Sustainable Development Program	-	181,420	322,759	-	-	-	-
SCG3796	3P-IDEEA365-ODE for Campus Housing	-	357,123	70,241	-	-	-	-
SCG3797	3P-IDEEA365-Energy Advantage Program for Small Business	-	529,267	285,057	-	-	-	-
SCG3798	3P-IDEEA365-Connect	-	380,258	153,952	-	-	-	-
SCG3800	3P-IDEEA365-Clear Ice	-	1,150,859	2,664	-	-	-	-
SCG3804	COM-On-Premise Ozone Laundry	-	-	-	-	-	-	-
SCG3805	COM-Direct Install Program	-	-	-	-	-	-	-
SCG3807	COM-HOPPS-CRR Program	-	-	-	-	-	-	-
SCG3809	COM-AB793-CEMTL Program	-	-	-	-	-	-	-
SCG3813	COM-SW-Savings By Design	-	-	-	-	-	-	-
SCG3814	COM-SW-Midstream Water Heating	-	-	-	-	-	-	-
SCG3825	COM-HVAC QI/QM	-	-	-	-	-	-	-
SCG3826	COM-Lodging Program	-	-	-	-	-	-	-
SCG3827	COM-Mixed Use Building Program	-	-	-	-	-	-	-
SCG3834	COM-LADWP Direct Install	-	-	-	-	-	-	-
SCG3835	COM-Pasadena Direct Install	-	-	-	-	-	-	-
	Public Programs Total	**1,226,515**	**816,509**	**537,528**	**23,300**	**-**	**-**	**-**
SCG3758	PUB-K-12 Performance Program	1,226,515	816,509	537,528	23,300	-	-	-
SCG3815	PUB-Calculated Incentives	-	-	-	-	-	-	-
SCG3816	PUB-Deemed Incentives	-	-	-	-	-	-	-
SCG3817	PUB-Direct Install Program	-	-	-	-	-	-	-
SCG3818	PUB-SW-Water/Wastewater Pumping Program	-	-	-	-	-	-	-
SCG3837	PUB-SW-Energy Atlas	-	-	-	-	-	-	-
	Industrial Programs Total	**11,918,400**	**26,901,669**	**9,035,763**	**602,175**	**-**	**-**	**-**
SCG3713	IND-Energy Advisor	615,730	615,730	175,899	-	-	-	-
SCG3714	IND-SEM	324,017	686,549	518,353	-	-	-	-
SCG3715	IND-Calculated Incentives	9,184,880	23,267,336	6,024,838	602,175	-	-	-
SCG3716	IND-Deemed Incentives	1,048,590	1,059,340	947,966	-	-	-	-
SCG3757	IND-Small Industrial Facility Upgrades	745,183	1,272,714	1,368,707	-	-	-	-
SCG3821	IND-Direct Install Program	-	-	-	-	-	-	-
	Agricultural Programs Total	**4,238,506**	**8,239,149**	**919,296**	**-**	**-**	**-**	**-**
SCG3717	AG-Energy Advisor	39,703	84,457	25,585	-	-	-	-
SCG3718	AG-CEI	32,200	81,258	34,603	-	-	-	-
SCG3719	AG-Calculated Incentives	3,663,775	7,570,605	330,050	-	-	-	-
SCG3720	AG-Deemed Incentives	502,829	502,829	529,058	-	-	-	-
SCG3822	AG-Direct Install Program	-	-	-	-	-	-	-
	Emerging Technologies Programs Total	**1,272,335**	**2,322,344**	**1,083,188**	**-**	**-**	**-**	**-**
SCG3721	ET-SW-Technology Development Support	63,575	843,590	180,963	-	-	-	-
SCG3722	ET-SW-Technology Assessment Support	508,588	1,549,623	687,183	-	-	-	-
SCG3723	ET-SW-Technology Introduction Support	700,172	(70,869)	215,042	-	-	-	-
SCG3806	Water AMI Pilot	-	-	-	-	-	-	-
	Codes & Standards Programs Total	**842,591**	**1,889,500**	**552,494**	**-**	**-**	**-**	**-**
SCG3724	C&S-SW-Building Codes & Compliance Advocacy	209,995	264,211	229,153	-	-	-	-
SCG3725	C&S-SW-Appliance Standards Advocacy	167,482	486,512	92,067	-	-	-	-
SCG3726	C&S-Compliance Enhancement	251,207	452,555	163,320	-	-	-	-
SCG3727	C&S-Reach Codes	85,374	284,817	22,469	-	-	-	-
SCG3728	C&S-Planning Coordination	128,533	401,405	45,486	-	-	-	-
	Workforce Education & Training Programs Total	**3,767,323**	**4,259,674**	**3,461,831**	**-**	**-**	**-**	**-**
SCG3729	WE&T-Centergies	2,548,697	2,718,916	2,482,481	-	-	-	-
SCG3730	WE&T-SW-Connections	429,952	581,148	406,751	-	-	-	-
SCG3731	WE&T-Strategic Planning	150,348	267,906	12,042	-	-	-	-
SCG3760	WE&T-HERS Rater Training Advancement	638,326	691,704	560,557	-	-	-	-
SCG3819	WE&T-SW-Career & Workforce Readiness	-	-	-	-	-	-	-
	Statewide DSM Coordination & Integration Program Total	**581,750**	**581,750**	**305,327**	**-**	**-**	**-**	**-**
SCG3734	IDSM-IDSM	581,750	581,750	305,327	-	-	-	-
	Financing Programs Total	**2,264,324**	**14,168,750**	**3,016,404**	**-**	**-**	**11,904,426**	**-**
SCG3735	FIN-On-Bill Financing	878,579	2,552,784	248,700	-	-	1,674,204	-
SCG3736	FIN-ARRA-Originated Financing	1,385,745	4,353,385	637,307	-	-	2,967,640	-
SCG3737	FIN-SW-New Financing Offerings	-	7,099,895	1,337,892	-	-	7,099,895	-
SCG3803	FIN-SW-California Hub for EE Financing	-	162,687	792,505	-	-	162,687	-
	Institutional Partnership Programs Total	**1,350,130**	**3,239,183**	**735,566**	**-**	**-**	**-**	**-**
SCG3738	PUB-SW-CA Department of Corrections Partnership	256,482	784,805	98,265	-	-	-	-
SCG3739	PUB-SW- California Community College Partnership	372,082	478,141	337,260	-	-	-	-
SCG3740	PUB-SW-UC/CSU/IOU Partnership	471,035	1,132,792	220,579	-	-	-	-
SCG3741	PUB-SW-State of CA/IOU Partnership	250,531	843,445	79,462	-	-	-	-
	Government Partnership Programs Total	**3,495,821**	**8,116,448**	**2,221,304**	**-**	**-**	**-**	**-**
SCG3742	PUB-LA Co Partnership	227,492	564,975	138,376	-	-	-	-
SCG3743	PUB-Kern Co Partnership	104,789	144,754	72,650	-	-	-	-
SCG3744	PUB-Riverside Co Partnership	141,676	386,753	58,199	-	-	-	-
SCG3745	PUB-San Bernardino Co Partnership	142,985	371,734	53,912	-	-	-	-
SCG3746	PUB-Santa Barbara Co Partnership	123,769	229,564	83,261	-	-	-	-
SCG3747	PUB-South Bay Cities Partnership	156,042	434,310	252,363	-	-	-	-
SCG3748	PUB-San Luis Obispo Co Partnership	102,309	159,048	109,753	-	-	-	-
SCG3749	PUB-San Joaquin Valley Partnership	115,285	205,749	89,649	-	-	-	-
SCG3750	PUB-Orange County Cities Partnership	153,703	380,407	63,531	-	-	-	-
SCG3751	PUB-SEEC Partnership	147,698	217,796	167,230	-	-	-	-
SCG3752	LGP-Community Energy Partnership	139,684	155,179	143,856	-	-	-	-
SCG3753	PUB-Desert Cities Partnership	18,034	49,638	10,645	-	-	-	-
SCG3754	PUB-Ventura County Partnership	171,544	346,207	92,825	-	-	-	-
SCG3755	PUB-Energy Efficiency Pilots	215,000	516,574	1,926	-	-	-	-
SCG3773	PUB-Public Sector Resource	299,443	643,443	(523)	-	-	-	-
SCG3774	PUB-LG Regional Resource	325,955	436,297	337,172	-	-	-	-
SCG3776	PUB-Gateway Cities Partnership	174,765	518,646	63,584	-	-	-	-
SCG3777	PUB-San Gabriel Valley COG Partnership	249,015	729,458	116,053	-	-	-	-
SCG3778	LGP-City of Santa Ana Partnership	79,437	185,192	58,407	-	-	-	-
SCG3779	PUB-West Side Community Energy Partnership	47,822	138,724	35,340	-	-	-	-
SCG3780	LGP-City of Simi Valley Partnership	48,213	130,703	22,205	-	-	-	-
SCG3781	LGP-City of Redlands Partnership	61,966	148,669	32,131	-	-	-	-
SCG3782	LGP-City of Beaumont Programs	53,770	105,403	31,398	-	-	-	-
SCG3783	PUB-Western Riverside Energy Partnership	195,427	524,132	126,310	-	-	-	-
SCG3801	PUB-North Orange County Cities Partnership	-	243,495	60,994	-	-	-	-
SCG3802	PUB-San Bernardino Regional Energy Partnership	-	149,600	58	-	-	-	-
	Other Programs	**5,017,192**	**4,360,511**	**3,667,624**	**-**	**-**	**-**	**-**
SCG3768	3P-CA Sustainability Alliance	602,191	602,191	790,242	-	-	-	-
SCG3769	3P-PoF	550,891	597,845	516,677	-	-	-	-
SCG3770	3P-PACE	690,265	690,265	699,051	-	-	-	-
SCG3771	SOL-Innovative Designs for Energy Efficiency Activities (IDEEA365)	2,195,346	1,491,710	395,160	-	-	-	-
SCG3775	CRM	978,500	978,500	1,266,494	-	-	-	-
	SoCal Gas PROGRAM TOTAL	**76,018,572**	**132,540,974**	**66,683,882**	**956,857**	**34,856,085**	**21,666,318**	**-**
SCG3772	**EM&V (SoCal Gas & CPUC Portions) Total**	**3,347,927**	**10,720,322**	**2,138,655**	**418,331**	**-**	**7,372,395**	**-**
	EM&V - CPUC	2,427,344	8,200,542	1,550,587	418,331	-	5,773,198	-
	EM&V - PA	920,583	2,519,780	588,068	-	-	1,599,198	-
	EM&V - SoCalREN	-	-	-	-	-	-	-
	EM&V - 3C-REN	-	-	-	-	-	-	-
	SoCal Gas TOTAL with EM&V	**79,366,499**	**143,261,297**	**68,822,537**	**1,375,188**	**34,856,085**	**29,038,713**	**-**
	SoCalREN	4,337,000	10,533,517	(1,088,340)	-	-	6,196,517	-
	3C-REN	-	-	-	-	-	-	-
	TOTAL SoCal Gas EE PORTFOLIO	**83,703,499**	**153,794,814**	**67,734,197**	**1,375,188**	**34,856,085**	**35,235,230**	**-**

2016 Budget, Spent, Unspent and Carryover / 2017 Budget, Spent, Unspent and Carryover

Program # / Name	2016 Authorized Budget	2016 Total Budget with Commitments & Fundshifts	2016 Total Budget Spent	2016 Unspent/Uncommited Funds Returned to Ratepayers	2016 Commitments as of 12/31/16	Pre-2017 Unspent/Uncommitted Funds Available for 2019 offset	2017 Authorized Budget	2017 Total Budget with Commitments & Fundshifts	2017 Total Budget Spent	2017 Unspent/Uncommited Funds Returned to Ratepayers	2017 Commitments as of 12/31/17	Pre-2018 Unspent/Uncommitted Funds Available for 2019 offset
Residential Energy Efficiency Programs Total	**28,759,265**	**28,936,825**	**31,538,167**	**-**	**(2,601,341)**	**-**	**28,885,030**	**40,231,933**	**32,184,321**	**-**	**8,047,612**	**-**
SCG3701	757,889	757,889	373,030		384,860	-	757,889	4,049,593	2,072,488	-	1,977,105	-
SCG3702	4,193,046	4,193,046	4,857,484	-	(664,438)	-	4,193,046	9,113,926	7,902,195	-	1,211,730	-
SCG3703	2,287,108	2,287,108	2,414,094	-	(126,986)	-	2,287,108	3,057,210	4,096,549	-	(1,039,339)	-
SCG3704	1,328,972	1,328,972	617,625	-	711,348	-	1,075,172	(1,405,992)	691,848	-	(2,097,840)	-
SCG3705	6,767,345	6,767,345	12,021,934	-	(5,254,589)	-	6,371,145	11,591,705	6,291,327	-	5,300,379	-
SCG3706	1,409,054	1,409,054	514,956	-	894,098	-	1,409,054	(1,742,688)	310,586	-	(2,053,274)	-
SCG3707	2,835,928	2,835,928	2,626,065	-	209,864	-	2,472,928	5,907,928	2,348,722	-	3,559,206	-
SCG3759	2,545,075	2,545,075	2,092,435	-	452,640	-	2,545,075	2,099,855	2,451,328	-	(351,473)	-
SCG3761	1,141,315	1,141,315	684,028	-	457,288	-	1,141,315	(553,282)	7,618	-	(560,900)	-
SCG3762	265,080	265,080	268,946	-	(3,866)	-	265,080	288,165	274,096	-	14,069	-
SCG3763	1,535,809	1,535,809	1,060,260	-	475,548	-	1,535,809	3,016,003	734,517	-	2,281,485	-
SCG3764	803,634	981,194	1,000,243	-	(19,049)	-	803,634	1,017,769	989,418	-	28,351	-
SCG3765	2,889,010	2,889,010	2,905,441	-	(16,431)	-	2,889,010	3,224,010	3,812,299	-	(588,289)	-
SCG3799	-	-	101,627	-	(101,627)	-	125,765	125,765	107,308	-	18,457	-
SCG3808	-	-	-	-	-	-	650,000	384,439	94,022	-	290,418	-
SCG3810	-	-	-	-	-	-	363,000	57,526	-	-	57,526	-
SCG3820	-	-	-	-	-	-	-	-	-	-	-	-
SCG3823	-	-	-	-	-	-	-	-	-	-	-	-
SCG3824	-	-	-	-	-	-	-	-	-	-	-	-
SCG3828	-	-	-	-	-	-	-	-	-	-	-	-
SCG3829	-	-	-	-	-	-	-	-	-	-	-	-
SCG3830	-	-	-	-	-	-	-	-	-	-	-	-
SCG3831	-	-	-	-	-	-	-	-	-	-	-	-
SCG3832	-	-	-	-	-	-	-	-	-	-	-	-
SCG3833	-	-	-	-	-	-	-	-	-	-	-	-
SCG3836	-	-	-	-	-	-	-	-	-	-	-	-
Commercial Programs Total	**11,284,422**	**15,316,489**	**17,044,136**	**-**	**(1,727,647)**	**-**	**14,724,229**	**15,929,273**	**11,540,265**	**-**	**4,389,009**	**-**
SCG3708	516,008	516,008	367,470	-	148,538	-	516,008	516,008	319,843	-	196,165	-
SCG3709	200,329	200,329	149,945	-	50,384	-	200,329	200,329	112,377	-	87,952	-
SCG3710	5,195,394	5,195,394	5,997,773	-	(802,379)	-	3,445,394	2,655,394	1,374,046	-	1,281,349	-
SCG3711	4,497,331	4,497,331	5,416,731	-	(919,400)	-	4,497,331	7,722,331	6,365,203	-	1,357,129	-
SCG3712	328,282	328,282	159,324	-	168,958	-	328,282	328,282	55,567	-	272,715	-
SCG3756	-	-	-	-	-	-	-	-	-	-	-	-
SCG3766	-	-	-	-	-	-	-	(608,806)	0	-	(608,806)	-
SCG3793	547,078	3,320,427	4,171,726	-	(851,299)	-	847,078	2,197,078	2,375,550	-	(178,472)	-
SCG3794	-	-	-	-	-	-	-	-	110	-	(110)	-
SCG3795	-	-	85,301	-	(85,301)	-	-	-	(58,541)	-	58,541	-
SCG3796	-	197,893	375,489	-	(177,596)	-	213,682	(121,318)	175,447	-	(296,765)	-
SCG3797	-	233,754	65,272	-	168,482	-	277,162	277,162	103,883	-	173,279	-
SCG3798	-	36,974	137,945	-	(100,971)	-	207,105	213,105	224,985	-	(11,880)	-
SCG3800	-	-	35,701	-	(35,701)	-	576,761	204,636	31,945	-	172,691	-
SCG3804	-	790,097	28,582	-	761,515	-	790,097	520,072	185,349	-	334,723	-
SCG3805	-	-	52,877	-	(52,877)	-	1,750,000	750,000	81,446	-	668,554	-
SCG3807	-	-	-	-	-	-	480,000	480,000	193,056	-	286,944	-
SCG3809	-	-	-	-	-	-	595,000	595,000	-	-	595,000	-
SCG3813	-	-	-	-	-	-	-	-	-	-	-	-
SCG3814	-	-	-	-	-	-	-	-	-	-	-	-
SCG3825	-	-	-	-	-	-	-	-	-	-	-	-
SCG3826	-	-	-	-	-	-	-	-	-	-	-	-
SCG3827	-	-	-	-	-	-	-	-	-	-	-	-
SCG3834	-	-	-	-	-	-	-	-	-	-	-	-
SCG3835	-	-	-	-	-	-	-	-	-	-	-	-
Public Programs Total	**1,226,515**	**1,048,955**	**690,528**	**-**	**358,427**	**-**	**846,529**	**846,529**	**496,067**	**-**	**350,462**	**-**
SCG3758	1,226,515	1,048,955	690,528	-	358,427	-	846,529	846,529	496,067	-	350,462	-
SCG3815	-	-	-	-	-	-	-	-	-	-	-	-
SCG3816	-	-	-	-	-	-	-	-	-	-	-	-
SCG3817	-	-	-	-	-	-	-	-	-	-	-	-
SCG3818	-	-	-	-	-	-	-	-	-	-	-	-
SCG3837	-	-	-	-	-	-	-	-	-	-	-	-
Industrial Programs Total	**11,918,400**	**11,918,400**	**7,259,252**	**-**	**4,659,148**	**-**	**11,918,400**	**1,018,400**	**4,469,909**	**-**	**(3,451,509)**	**-**
SCG3713	615,730	615,730	158,394	-	457,336	-	615,730	615,730	75,242	-	540,488	-
SCG3714	324,017	324,017	209,012	-	115,005	-	324,017	324,017	77,447	-	246,570	-
SCG3715	9,184,880	7,021,956	4,406,250	-	2,615,706	-	9,184,880	(1,940,120)	2,505,566	-	(4,445,686)	-
SCG3716	1,048,590	1,048,590	1,316,438	-	(267,848)	-	1,048,590	1,273,590	1,221,676	-	51,914	-
SCG3757	745,183	2,908,107	1,169,159	-	1,738,948	-	745,183	745,183	589,978	-	155,205	-
SCG3821	-	-	-	-	-	-	-	-	-	-	-	-
Agricultural Programs Total	**4,238,506**	**4,238,506**	**2,330,444**	**-**	**1,908,062**	**-**	**3,163,506**	**1,194,200**	**2,033,725**	**-**	**(839,525)**	**-**
SCG3717	39,703	39,703	28,141	-	11,562	-	39,703	39,703	27,463	-	12,240	-
SCG3718	32,200	32,200	7,703	-	24,497	-	32,200	32,200	7,391	-	24,809	-
SCG3719	3,663,775	3,663,775	1,597,602	-	2,066,172	-	2,588,775	(380,531)	650,321	-	(1,030,852)	-
SCG3720	502,829	502,829	696,997	-	(194,169)	-	502,829	1,502,829	1,348,550	-	154,279	-
SCG3822	-	-	-	-	-	-	-	-	-	-	-	-
Emerging Technologies Programs Total	**1,272,335**	**1,272,335**	**1,032,080**	**-**	**240,255**	**-**	**1,272,335**	**1,272,335**	**1,144,846**	**-**	**127,488**	**-**
SCG3721	63,575	63,575	111,763	-	(48,188)	-	63,575	63,575	181,963	-	(118,388)	-
SCG3722	508,588	508,588	506,850	-	1,738	-	508,588	708,588	504,519	-	204,068	-
SCG3723	700,172	700,172	373,856	-	326,316	-	564,172	364,172	365,373	-	(1,201)	-
SCG3806	-	-	39,611	-	(39,611)	-	136,000	136,000	92,991	-	43,009	-
Codes & Standards Programs Total	**842,591**	**842,591**	**1,161,066**	**-**	**(318,475)**	**-**	**842,591**	**842,591**	**965,096**	**-**	**(122,505)**	**-**
SCG3724	209,995	209,995	477,044	-	(267,049)	-	209,995	209,995	196,238	-	13,757	-
SCG3725	167,482	167,482	237,348	-	(69,867)	-	167,482	167,482	276,023	-	(108,541)	-
SCG3726	251,207	251,207	259,016	-	(7,809)	-	251,207	251,207	307,778	-	(56,571)	-
SCG3727	85,374	85,374	29,942	-	55,431	-	85,374	85,374	54,883	-	30,490	-
SCG3728	128,533	128,533	157,716	-	(29,183)	-	128,533	128,533	130,173	-	(1,640)	-
Workforce Education & Training Programs Total	**3,767,323**	**3,767,323**	**3,295,712**	**-**	**471,610**	**-**	**3,692,323**	**3,692,323**	**3,295,328**	**-**	**396,995**	**-**
SCG3729	2,548,697	2,548,697	2,416,109	-	132,588	-	2,548,697	2,548,697	2,317,640	-	231,058	-
SCG3730	429,952	429,952	239,824	-	190,128	-	429,952	429,952	381,931	-	48,020	-
SCG3731	150,348	150,348	33,707	-	116,641	-	150,348	150,348	25,983	-	124,364	-
SCG3760	638,326	638,326	606,072	-	32,254	-	563,326	563,326	569,773	-	(6,447)	-
SCG3819	-	-	-	-	-	-	-	-	-	-	-	-
Statewide DSM Coordination & Integration Program Total	**581,750**	**581,750**	**461,469**	**-**	**120,281**	**-**	**581,750**	**581,750**	**366,493**	**-**	**215,256**	**-**
SCG3734	581,750	581,750	461,469	-	120,281	-	581,750	581,750	366,493	-	215,256	-
Financing Programs Total	**2,264,324**	**2,264,324**	**1,513,227**	**-**	**751,098**	**-**	**2,264,324**	**2,264,324**	**1,022,741**	**-**	**1,241,583**	**-**
SCG3735	878,579	878,579	206,866	-	671,713	-	878,579	82,270	226,929	-	(144,659)	-
SCG3736	1,385,745	1,385,745	283,889	-	1,101,856	-	1,385,745	1,272,418	(59,641)	-	1,332,059	-
SCG3737	-	-	1,202,716	-	(1,202,716)	-	-	(231,136)	725,904	-	(957,040)	-
SCG3803	-	-	(180,245)	-	180,245	-	-	1,140,772	129,549	-	1,011,223	-
Institutional Partnership Programs Total	**1,350,130**	**1,350,130**	**712,024**	**-**	**638,106**	**-**	**1,350,130**	**1,350,130**	**688,538**	**-**	**661,592**	**-**
SCG3738	256,482	256,482	107,426	-	149,056	-	256,482	256,482	122,024	-	134,458	-
SCG3739	372,082	372,082	310,994	-	61,088	-	372,082	372,082	196,981	-	175,101	-
SCG3740	471,035	471,035	213,724	-	257,311	-	471,035	471,035	285,649	-	185,386	-
SCG3741	250,531	250,531	79,881	-	170,650	-	250,531	250,531	83,885	-	166,647	-
Government Partnership Programs Total	**3,495,821**	**3,495,821**	**2,049,858**	**-**	**1,445,963**	**-**	**3,495,821**	**3,495,821**	**2,075,139**	**-**	**1,420,682**	**-**
SCG3742	227,492	227,492	146,448	-	81,044	-	227,492	227,492	127,592	-	99,900	-
SCG3743	104,789	104,789	80,481	-	24,308	-	104,789	104,789	48,986	-	55,803	-
SCG3744	141,676	141,676	61,526	-	80,150	-	141,676	141,676	36,442	-	105,234	-
SCG3745	142,985	142,985	48,651	-	94,334	-	142,985	142,985	47,560	-	95,425	-
SCG3746	123,769	123,769	88,470	-	35,299	-	123,769	123,769	110,995	-	12,774	-
SCG3747	156,042	156,042	144,005	-	12,037	-	156,042	156,042	208,810	-	(52,769)	-
SCG3748	102,309	102,309	68,311	-	33,997	-	102,309	102,309	87,555	-	14,754	-
SCG3749	115,285	115,285	79,676	-	35,609	-	115,285	115,285	79,374	-	35,911	-
SCG3750	153,703	153,703	61,057	-	92,645	-	153,703	181,703	74,634	-	107,068	-
SCG3751	147,698	147,698	179,830	-	(32,132)	-	147,698	147,698	130,042	-	17,656	-
SCG3752	139,684	139,684	134,172	-	5,512	-	139,684	28,684	39,252	-	(10,568)	-
SCG3753	18,034	18,034	12,019	-	6,015	-	18,034	18,034	9,818	-	8,215	-
SCG3754	171,544	171,544	133,084	-	38,460	-	171,544	171,544	146,412	-	25,131	-
SCG3755	215,000	215,000	4,181	-	210,819	-	215,000	215,000	(4,193)	-	219,194	-
SCG3773	299,443	(2,402)	(140)	-	(2,262)	-	48,590	411,590	(262)	-	411,852	-
SCG3774	325,955	325,955	247,456	-	78,499	-	325,955	325,955	187,432	-	138,523	-
SCG3776	174,765	174,765	57,790	-	116,975	-	174,765	174,765	75,610	-	99,155	-
SCG3777	249,015	249,015	118,029	-	130,986	-	249,015	249,015	260,777	-	(11,762)	-
SCG3778	79,437	79,437	41,698	-	37,739	-	79,437	(102,563)	5,606	-	(108,169)	-
SCG3779	47,822	47,822	42,112	-	5,710	-	47,822	99,822	64,635	-	35,187	-
SCG3780	48,213	48,213	12,158	-	36,055	-	24,107	24,107	(260)	-	24,366	-
SCG3781	61,966	61,966	33,848	-	28,117	-	61,966	(88,034)	6,107	-	(94,142)	-
SCG3782	53,770	53,770	15,392	-	38,377	-	26,885	26,885	(312)	-	27,196	-
SCG3783	195,427	195,427	110,691	-	84,736	-	195,427	195,427	94,074	-	101,353	-
SCG3801	-	152,245	81,925	-	70,320	-	152,245	152,245	157,188	-	(4,943)	-
SCG3802	-	149,600	46,987	-	102,613	-	149,600	149,600	81,263	-	68,337	-
Other Programs	**5,017,192**	**985,125**	**3,759,581**	**-**	**(2,774,456)**	**-**	**2,981,605**	**3,298,964**	**3,047,339**	**-**	**251,625**	**-**
SCG3768	602,191	602,191	510,606	-	91,585	-	527,191	609,868	663,226	-	(53,358)	-
SCG3769	550,891	550,891	513,588	-	37,303	-	475,891	475,891	440,870	-	35,020	-
SCG3770	690,265	690,265	702,438	-	(12,173)	-	615,265	628,892	625,773	-	3,119	-
SCG3771	2,195,346	(1,836,721)	384,544	-	(2,221,265)	-	384,758	605,814	339,827	-	265,986	-
SCG3775	978,500	978,500	1,648,406	-	(669,906)	-	978,500	978,500	977,643	-	857	-
SoCal Gas PROGRAM TOTAL	**76,018,572**	**76,018,572**	**72,847,544**	**-**	**3,171,029**	**-**	**76,018,572**	**76,018,572**	**63,329,808**	**-**	**12,688,764**	**-**
SCG3772 EM&V (SoCal Gas & CPUC Portions) Total	**3,347,927**	**3,347,927**	**3,260,673**	**-**	**87,254**	**-**	**3,347,927**	**3,347,927**	**2,811,706**	**-**	**536,221**	**-**
EM&V - CPUC	2,427,344	2,427,344	2,481,780	-	(54,436)	-	2,427,344	2,427,344	2,361,879	-	65,465	-
EM&V - PA	920,583	920,583	778,893	-	141,690	-	920,583	920,583	449,827	-	470,756	-
EM&V - SoCalREN	-	-	-	-	-	-	-	-	-	-	-	-
EM&V - 3C-REN	-	-	-	-	-	-	-	-	-	-	-	-
SoCal Gas TOTAL with EM&V	**79,366,499**	**79,366,499**	**76,108,217**	**-**	**3,258,282**	**-**	**79,366,499**	**79,366,499**	**66,141,514**	**-**	**13,224,985**	**-**
SoCalREN	4,337,000	4,337,000	6,726,653	-	(2,389,653)	-	4,337,000	4,337,000	1,988,776	-	2,348,224	-
3C-REN	-	-	-	-	-	-	-	-	-	-	-	-
TOTAL SoCal Gas EE PORTFOLIO	**83,703,499**	**83,703,499**	**82,834,870**	**-**	**868,630**	**-**	**83,703,499**	**83,703,499**	**68,130,290**	**-**	**15,573,209**	**-**

2018 Budget, Spent, Unspent and Carryover / 2019 Proposed Budget

Program # / Name	2018 Authorized Budget	2018 Total Budget with Commitments & Fundshifts	2018 Total Budget Spent as of June 30, 2018	2018 Unspent/Uncommited Funds Returned to Ratepayers	2018 Commitments as of June 30, 2018	Pre-2019 Unspent/Uncommitted Funds Available for 2019 offset	2019 Proposed Budget	2019 Budget Offset from Pre-2018 Carryover (Col H and Z)	2019 Funds Requested	Program Type	Market Sector	Resource or Non-resource	Program Status	Utility Grouping
Residential Energy Efficiency Programs Total	**40,279,505**	**40,279,505**	**9,647,969**	**-**	**30,631,536**	**-**	**45,206,641**	**17,131,316**	**28,075,326**		**Residential**	**Resource**	**Existing**	**Residential Programs**
SCG3701	6,757,889	6,757,889	979,869		5,778,021	-	1,147,496	434,850	712,646	Core - SW	Residential	Resource	Existing	Energy Advisor
SCG3702	5,693,046	5,693,046	3,184,485	-	2,508,560	-	11,560,268	4,380,830	7,179,438	Core - SW	Residential	Resource	Existing	PLA
SCG3703	3,287,108	3,287,108	453,732	-	2,833,376	-	1,347,091	510,488	836,603	Core - SW	Residential	Resource	Existing	PLA
SCG3704	1,075,172	1,075,172	304,554	-	770,618	-	-	-	-	Core - SW	Residential	Resource	Cancelled	MFEER
SCG3705	6,674,145	6,674,145	1,159,530	-	5,514,615	-	2,361,124	894,762	1,466,363	Core - SW	Residential	Resource	Existing	Whole House
SCG3706	3,000,054	3,000,054	49,929	-	2,950,124	-	1,063,275	402,934	660,341	Core - SW	Residential	Resource	Existing	HVAC
SCG3707	2,472,928	2,472,928	490,403	-	1,982,526	-	1,765,705	669,124	1,096,581	Core - SW	Residential	Resource	Existing	New Construction
SCG3759	2,545,019	2,545,019	683,971	-	1,861,048	-	1,876,078	710,951	1,165,128	3P	Residential	Resource	Existing	Residential 3P Programs
SCG3761	-	-	(0)	-	0	-	-	-	-	3P	Residential	Resource	Cancelled	Residential 3P Programs
SCG3762	265,080	265,080	155,984	-	109,096	-	566,999	214,868	352,131	3P	Residential	Resource	Existing	Residential 3P Programs
SCG3763	2,373,406	2,373,406	429,879	-	1,943,527	-	2,487,631	942,702	1,544,929	3P	Residential	Resource	Existing	Residential 3P Programs
SCG3764	1,051,552	1,051,552	742,246	-	309,307	-	1,051,434	398,447	652,987	3P	Residential	Resource	Existing	Residential 3P Programs
SCG3765	4,071,106	4,071,106	1,004,740	-	3,066,366	-	3,236,255	1,226,397	2,009,858	3P	Residential	Resource	Existing	Residential 3P Programs
SCG3799	-	-	2,727	-	(2,727)	-	-	-	-	3P	Commercial	Non-Resource	Cancelled	Residential 3P Programs
SCG3808	650,000	650,000	5,920	-	644,080	-	816,172	309,293	506,879	3P	Residential	Resource	Existing	HOPPs
SCG3810	363,000	363,000	-	-	363,000	-	947,093	358,906	588,187	3P	Residential	Resource	Existing	AB793
SCG3820	-	-	-	-	-	-	2,515,590	953,297	1,562,293	3P	Residential	Resource	New	Residential 3P Programs
SCG3823	-	-	-	-	-	-	589,132	223,255	365,877	Core - SW	Residential	Resource	New	HVAC
SCG3824	-	-	-	-	-	-	6,489,068	2,459,069	4,029,999	3P	Residential	Non-Resource	New	Energy Advisor
SCG3828	-	-	-	-	-	-	356,063	134,932	221,131	3P	Residential	Resource	New	Energy Advisor
SCG3829	-	-	-	-	-	-	1,565,279	593,171	972,107	3P	Residential	Resource	New	Marketplace
SCG3830	-	-	-	-	-	-	759,844	287,947	471,897	Core - SW	Residential	Non-Resource	New	PLA
SCG3831	-	-	-	-	-	-	763,897	289,483	474,414	3P	Residential	Resource	New	PLA
SCG3832	-	-	-	-	-	-	425,513	161,250	264,262	3P	Residential	Resource	New	Whole House
SCG3833	-	-	-	-	-	-	354,594	134,375	220,218	3P	Residential	Resource	New	Whole House
SCG3836	-	-	-	-	-	-	1,161,042	439,983	721,058	3P	Residential	Resource	New	HVAC
Commercial Programs Total	**13,825,748**	**13,825,748**	**4,706,178**	**-**	**9,119,570**	**-**	**18,909,768**	**7,165,965**	**11,743,803**		**Commercial**	**Resource**	**Revised**	**Commercial Programs**
SCG3708	516,008	516,008	111,332	-	404,676	-	394,395	149,458	244,936	Core - SW	Commercial	Resource	Existing	Energy Advisor
SCG3709	200,329	200,329	8,385	-	191,943	-	-	-	-	Core - SW	Commercial	Resource	Cancelled	CEI
SCG3710	3,445,394	3,445,394	826,119	-	2,619,275	-	2,887,333	1,094,172	1,793,162	Core - SW	Commercial	Resource	Existing	Calculated Incentives
SCG3711	4,497,331	4,497,331	1,933,987	-	2,563,344	-	4,294,426	1,627,397	2,667,029	Core - SW	Commercial	Resource	Existing	Deemed Incentives
SCG3712	328,282	328,282	44,163	-	284,119	-	746,991	283,076	463,914	Core - SW	Commercial	Resource	Existing	HVAC
SCG3756	-	-	-	-	-	-	-	-	-	3P	Commercial	Non-Resource	Cancelled	Commercial 3P Programs
SCG3766	-	-	-	-	-	-	-	-	-	3P	Commercial	Resource	Cancelled	Commercial 3P Programs
SCG3793	1,034,553	1,034,553	954,135	-	80,418	-	2,466,506	934,697	1,531,809	3P	Commercial	Resource	Existing	Commercial 3P Programs
SCG3794	-	-	-	-	-	-	-	-	-	3P	Commercial	Non-Resource	Cancelled	Commercial 3P Programs
SCG3795	-	-	-	-	-	-	-	-	-	3P	Commercial	Non-Resource	Cancelled	Commercial 3P Programs
SCG3796	-	-	150	-	(150)	-	-	-	-	3P	Commercial	Resource	Cancelled	Commercial 3P Programs
SCG3797	-	-	(0)	-	0	-	-	-	-	3P	Commercial	Non-Resource	Cancelled	Commercial 3P Programs
SCG3798	224,255	224,255	100,772	-	123,483	-	-	-	-	3P	Commercial	Non-Resource	Cancelled	Commercial 3P Programs
SCG3800	-	-	150	-	(150)	-	-	-	-	3P	Commercial	Resource	Cancelled	Commercial 3P Programs
SCG3804	754,596	754,596	70,153	-	684,443	-	556,701	210,965	345,736	3P	Commercial	Resource	Existing	Commercial 3P Programs
SCG3805	1,750,000	1,750,000	637,899	-	1,112,101	-	2,012,795	762,760	1,250,035	3P	Commercial	Resource	Existing	Direct Install
SCG3807	480,000	480,000	8,856	-	471,144	-	520,308	197,174	323,134	3P	Commercial	Resource	Existing	HOPPs
SCG3809	595,000	595,000	10,078	-	584,922	-	985,473	373,451	612,022	3P	Commercial	Resource	New	AB793
SCG3813	-	-	-	-	-	-	531,891	201,563	330,328	Core - SW	Commercial	Resource	New	Calculated Incentives
SCG3814	-	-	-	-	-	-	1,800,000	682,120	1,117,880	Core - SW	Commercial	Resource	New	Deemed Incentives
SCG3825	-	-	-	-	-	-	303,938	115,179	188,759	Core - SW	Commercial	Non-Resource	New	HVAC
SCG3826	-	-	-	-	-	-	567,350	215,001	352,350	3P	Commercial	Resource	New	Commercial 3P Programs
SCG3827	-	-	-	-	-	-	567,350	215,001	352,350	3P	Commercial	Resource	New	Commercial 3P Programs
SCG3834	-	-	-	-	-	-	160,842	60,952	99,890	3P	Commercial	Resource	New	Commercial 3P Programs
SCG3835	-	-	-	-	-	-	113,470	43,000	70,470	3P	Commercial	Resource	New	Commercial 3P Programs
Public Programs Total	**784,074**	**784,074**	**150,227**	**-**	**633,847**	**-**	**3,470,306**	**1,315,092**	**2,155,214**		**Public**	**Resource**	**Existing**	**Public Programs**
SCG3758	784,074	784,074	150,227	-	633,847	-	573,957	217,504	356,453	3P	Public	Resource	Existing	Public 3P Programs
SCG3815	-	-	-	-	-	-	618,657	234,443	384,213	Core - SW	Public	Resource	New	Calculated Incentives
SCG3816	-	-	-	-	-	-	993,303	376,418	616,885	Core - SW	Public	Resource	New	Deemed Incentives
SCG3817	-	-	-	-	-	-	1,031,108	390,744	640,364	3P	Public	Resource	New	Public 3P Programs
SCG3818	-	-	-	-	-	-	-	-	-	Core - SW	Public	Non-Resource	New	Public 3P Programs
SCG3837	-	-	-	-	-	-	253,281	95,982	157,299	Core - SW	Public	Non-Resource	New	Public 3P Programs
Industrial Programs Total	**20,738,872**	**20,738,872**	**1,923,939**	**2,166,350**	**16,007,945**	**2,806,988**	**13,279,856**	**7,839,465**	**5,440,390**		**Industrial**	**Resource**	**Existing**	**Industrial Programs**
SCG3713	615,730	615,730	50,163	-	565,567	-	501,651	190,104	311,548	Core - SW	Industrial	Non-Resource	Existing	Energy Advisor
SCG3714	324,017	324,017	63,871	-	260,146	-	549,276	208,151	341,125	Core - SW	Industrial	Resource	Existing	CEI
SCG3715	15,184,880	15,184,880	1,273,710	2,806,988	11,104,181	2,806,988	7,556,625	5,670,614	1,886,010	Core - SW	Industrial	Resource	Existing	Calculated Incentives
SCG3716	3,282,590	3,282,590	472,634	-	2,809,956	-	1,355,412	513,641	841,771	Core - SW	Industrial	Resource	Existing	Deemed Incentives
SCG3757	1,331,655	1,331,655	63,560	-	1,268,095	-	783,876	297,054	486,822	3P	Industrial	Resource	Existing	Industrial 3P Programs
SCG3821	-	-	-	-	-	-	2,533,016	959,901	1,573,115	3P	Industrial	Resource	New	Industrial 3P Programs
Agricultural Programs Total	**3,163,506**	**3,163,506**	**818,979**	**-**	**2,344,528**	**-**	**4,147,054**	**1,571,550**	**2,575,504**		**Agricultural**	**Resource**	**Existing**	**Agricultural Programs**
SCG3717	39,703	39,703	26,964	-	12,739	-	65,112	24,674	40,437	Core - SW	Agricultural	Non-Resource	Existing	Energy Advisor
SCG3718	32,200	32,200	1,649	-	30,551	-	-	-	-	Core - SW	Agricultural	Resource	Cancelled	CEI
SCG3719	2,588,775	2,588,775	310,328	-	2,278,447	-	1,522,727	577,046	945,681	Core - SW	Agricultural	Resource	Existing	Calculated Incentives
SCG3720	502,829	502,829	480,037	-	22,791	-	1,545,989	585,861	960,127	Core - SW	Agricultural	Resource	Existing	Deemed Incentives
SCG3822	-	-	-	-	-	-	1,013,227	383,968	629,259	3P	Agricultural	Resource	New	Industrial 3P Programs
Emerging Technologies Programs Total	**1,272,335**	**1,272,335**	**502,009**	**-**	**770,326**	**-**	**1,456,613**	**551,992**	**904,621**		**ET**	**Non-Resource**	**Existing**	**Emerging Technology Programs**
SCG3721	63,575	63,575	64,961	-	(1,386)	-	119,410	45,251	74,159	Core - SW	ET	Non-Resource	Existing	Emerging Technology Programs
SCG3722	508,588	508,588	263,184	-	245,404	-	606,302	229,762	376,540	Core - SW	ET	Non-Resource	Existing	Emerging Technology Programs
SCG3723	700,172	700,172	173,864	-	526,308	-	730,901	276,979	453,922	Core - SW	ET	Non-Resource	Existing	Emerging Technology Programs
SCG3806	-	-	-	-	-	-	-	-	-	Core - SW	ET	Non-Resource	Cancelled	Emerging Technology Programs
Codes & Standards Programs Total	**842,591**	**842,591**	**287,380**	**-**	**555,211**	**-**	**847,440**	**321,142**	**526,298**		**C&S**	**Codes and Standards**	**Existing**	**Codes and Standards**
SCG3724	209,995	209,995	39,219	-	170,776	-	203,262	77,027	126,234	Core - SW	C&S	Codes and Standards	Existing	Codes and Standards
SCG3725	167,482	167,482	121,473	-	46,008	-	153,372	58,121	95,251	Core - SW	C&S	Codes and Standards	Existing	Codes and Standards
SCG3726	251,207	251,207	56,411	-	194,796	-	286,056	108,402	177,653	Core - SW	C&S	Codes and Standards	Existing	Codes and Standards
SCG3727	85,374	85,374	9,544	-	75,829	-	65,360	24,769	40,592	Core - SW	C&S	Codes and Standards	Existing	Codes and Standards
SCG3728	128,533	128,533	60,731	-	67,802	-	139,391	52,823	86,568	Core - SW	C&S	Codes and Standards	Existing	Codes and Standards
Workforce Education & Training Programs Total	**3,545,583**	**3,545,583**	**1,451,066**	**-**	**2,094,516**	**-**	**3,657,037**	**1,385,855**	**2,271,182**		**WE&T**	**Non-Resource**	**Existing**	**WE&T Programs**
SCG3729	2,548,697	2,548,697	1,123,841	-	1,424,857	-	2,808,149	1,064,164	1,743,985	Core - SW	WE&T	Non-Resource	Existing	WE&T Programs
SCG3730	429,952	429,952	91,403	-	338,549	-	445,474	168,815	276,659	Core - SW	WE&T	Non-Resource	Existing	WE&T Programs
SCG3731	150,348	150,348	-	-	150,348	-	-	-	-	Core - SW	WE&T	Non-Resource	Cancelled	WE&T Programs
SCG3760	416,586	416,586	235,823	-	180,763	-	403,414	152,876	250,538	3P	WE&T	Non-Resource	Existing	WE&T 3P Programs
SCG3819	-	-	-	-	-	-	-	-	-	Core - SW	WE&T	Non-Resource	New	WE&T Programs
Statewide DSM Coordination & Integration Program Total	**581,750**	**581,750**	**206,027**	**-**	**375,722**	**-**	**-**	**-**	**-**	-	-	**Non-Resource**	**Existing**	**DSM Integration Programs**
SCG3734	581,750	581,750	206,027	-	375,722	-	-	-	-	-	-	Non-Resource	Cancelled	DSM Integration Programs
Financing Programs Total	**2,264,324**	**2,264,324**	**624,440**	**-**	**1,639,884**	**-**	**658,531**	**249,554**	**408,977**		**Cross Cutting**	**Resource**	**Existing**	**Financing Programs**
SCG3735	878,579	878,579	107,187	-	771,393	-	658,531	249,554	408,977	Core - SW	Finance	Resource	Existing	Financing Programs
SCG3736	1,385,745	1,385,745	443,313	-	942,432	-	-	-	-	Core - SW	Finance	Resource	Cancelled	Financing Programs
SCG3737	-	-	8,209	-	(8,209)	-	-	-	-	Core - SW	Finance	Resource	Existing	Financing Programs
SCG3803	-	-	65,732	-	(65,732)	-	-	-	-	Core - SW	Finance	Resource	Existing	Financing Programs
Institutional Partnership Programs Total	**1,350,130**	**1,350,130**	**230,904**	**-**	**1,119,226**	**-**	**1,381,034**	**523,351**	**857,683**		**Public**	**Non-Resource**	**Existing**	**Government Partnerships**
SCG3738	256,482	256,482	35,166	-	221,316	-	262,210	99,366	162,844	Govt Partnerships	Public	Non-Resource	Existing	Government Partnerships
SCG3739	372,082	372,082	69,108	-	302,974	-	381,164	144,444	236,720	Govt Partnerships	Public	Non-Resource	Existing	Government Partnerships
SCG3740	471,035	471,035	87,257	-	383,778	-	481,482	182,460	299,022	Govt Partnerships	Public	Non-Resource	Existing	Government Partnerships
SCG3741	250,531	250,531	39,373	-	211,158	-	256,177	97,080	159,097	Govt Partnerships	Public	Non-Resource	Existing	Government Partnerships
Government Partnership Programs Total	**3,495,821**	**3,495,821**	**868,396**	**-**	**2,627,425**	**-**	**3,391,008**	**1,285,042**	**2,105,966**		**Public**	**Non-Resource**	**Existing**	**Government Partnerships**
SCG3742	227,492	227,492	52,121	-	175,371	-	232,986	88,291	144,695	Govt Partnerships	Public	Non-Resource	Existing	Government Partnerships
SCG3743	104,789	104,789	31,243	-	73,546	-	107,540	40,753	66,787	Govt Partnerships	Public	Non-Resource	Existing	Government Partnerships
SCG3744	141,676	141,676	28,282	-	113,394	-	135,086	51,192	83,894	Govt Partnerships	Public	Non-Resource	Existing	Government Partnerships
SCG3745	142,985	142,985	30,082	-	112,903	-	136,541	51,743	84,798	Govt Partnerships	Public	Non-Resource	Existing	Government Partnerships
SCG3746	123,769	123,769	39,914	-	83,855	-	126,827	48,062	78,765	Govt Partnerships	Public	Non-Resource	Existing	Government Partnerships
SCG3747	156,042	156,042	44,306	-	111,736	-	159,704	60,521	99,183	Govt Partnerships	Public	Non-Resource	Existing	Government Partnerships
SCG3748	102,309	102,309	49,950	-	52,358	-	104,975	39,781	65,194	Govt Partnerships	Public	Non-Resource	Existing	Government Partnerships
SCG3749	115,285	115,285	39,613	-	75,672	-	118,220	44,800	73,420	Govt Partnerships	Public	Non-Resource	Existing	Government Partnerships
SCG3750	153,703	153,703	34,676	-	119,027	-	147,455	55,879	91,576	Govt Partnerships	Public	Non-Resource	Existing	Government Partnerships
SCG3751	147,698	147,698	19,699	-	127,999	-	140,770	53,346	87,424	Govt Partnerships	Public	Non-Resource	Existing	Government Partnerships
SCG3752	-	-	-	-	-	-	-	-	-	Govt Partnerships	Public	Non-Resource	Cancelled	Government Partnerships
SCG3753	18,034	18,034	7,434	-	10,599	-	18,436	6,987	11,450	Govt Partnerships	Public	Non-Resource	Existing	Government Partnerships
SCG3754	171,544	171,544	59,375	-	112,168	-	165,602	62,756	102,846	Govt Partnerships	Public	Non-Resource	Existing	Government Partnerships
SCG3755	215,000	215,000	-	-	215,000	-	199,402	75,565	123,838	Govt Partnerships	Public	Non-Resource	Existing	Government Partnerships
SCG3773	288,926	288,926	336	-	288,590	-	267,471	101,360	166,111	Govt Partnerships	Public	Non-Resource	Existing	Government Partnerships
SCG3774	325,955	325,955	138,744	-	187,210	-	295,701	112,058	183,644	Govt Partnerships	Public	Non-Resource	Existing	Government Partnerships
SCG3776	174,765	174,765	29,051	-	145,714	-	168,815	63,973	104,842	Govt Partnerships	Public	Non-Resource	Existing	Government Partnerships
SCG3777	249,015	249,015	81,676	-	167,339	-	234,757	88,963	145,795	Govt Partnerships	Public	Non-Resource	Existing	Government Partnerships
SCG3778	-	-	-	-	-	-	-	-	-	Govt Partnerships	Public	Non-Resource	Cancelled	Government Partnerships
SCG3779	139,564	139,564	86,099	-	53,465	-	142,322	53,934	88,388	Govt Partnerships	Public	Non-Resource	Existing	Government Partnerships
SCG3780	-	-	-	-	-	-	-	-	-	Govt Partnerships	Public	Non-Resource	Cancelled	Government Partnerships
SCG3781	-	-	-	-	-	-	-	-	-	Govt Partnerships	Public	Non-Resource	Cancelled	Government Partnerships
SCG3782	-	-	-	-	-	-	-	-	-	Govt Partnerships	Public	Non-Resource	Cancelled	Government Partnerships
SCG3783	195,427	195,427	32,269	-	163,158	-	179,910	68,178	111,732	Govt Partnerships	Public	Non-Resource	Existing	Government Partnerships
SCG3801	152,245	152,245	38,287	-	113,958	-	155,594	58,963	96,631	Govt Partnerships	Public	Non-Resource	Existing	Government Partnerships
SCG3802	149,600	149,600	25,237	-	124,363	-	152,891	57,939	94,952	Govt Partnerships	Public	Non-Resource	Existing	Government Partnerships
Other Programs	**2,502,335**	**2,502,335**	**696,688**	**-**	**1,805,647**	**-**	**1,290,649**	**489,099**	**801,550**		**Cross Cutting**	**Non-Resource**	**Existing**	**Other**
SCG3768	440,000	440,000	268,748	-	171,252	-	-	-	-	3P	Cross Cutting	Non-Resource	Cancelled	Cross Cutting 3P Programs
SCG3769	330,000	330,000	161,240	-	168,760	-	-	-	-	3P	Cross Cutting	Non-Resource	Cancelled	Cross Cutting 3P Programs
SCG3770	260,265	260,265	163,931	-	96,334	-	-	-	-	3P	Cross Cutting	Non-Resource	Cancelled	Cross Cutting 3P Programs
SCG3771	493,571	493,571	102,769	-	390,802	-	1,290,649	489,099	801,550	3P	Cross Cutting	Resource	Existing	Cross Cutting 3P Programs
SCG3775	978,500	978,500	-		978,500	-	-	-	-	Other	Cross Cutting	Non-Resource	Existing	Other
SoCal Gas PROGRAM TOTAL	**94,646,573**	**94,646,573**	**22,114,202**	**2,806,988**	**69,725,383**	**2,806,988**	**97,695,938**	**39,829,423**	**57,866,515**					
SCG3772 EM&V (SoCal Gas & CPUC Portions) Total	**4,166,000**	**4,166,000**	**235,395**	**-**	**3,930,605**	**-**	**4,265,062**	**-**	**4,265,062**		**Cross Cutting**	**Non-Resource**	**Existing**	**EM&V**
EM&V - CPUC	3,020,447	3,020,447	69,347	-	2,951,100	-	3,092,170	-	3,092,170	EM&V	EM&V	Non-Resource	Existing	EM&V
EM&V - PA	1,145,553	1,145,553	166,048	-	979,505	-	1,119,433	-	1,119,433	EM&V	EM&V	Non-Resource	Existing	EM&V
EM&V - SoCalREN	-	-	-	-	-	-	39,791	-	39,791	EM&V	EM&V	Non-Resource	New	EM&V
EM&V - 3C-REN	-	-	-	-	-	-	13,668	-	13,668	EM&V	EM&V	Non-Resource	New	EM&V
SoCal Gas TOTAL with EM&V	**98,812,573**	**98,812,573**	**22,349,597**	**2,806,988**	**73,655,988**	**2,806,988**	**101,961,000**	**39,829,423**	**62,131,577**					
SoCalREN	3,256,553	3,256,553	4,997,257	-	(1,740,704)	-	3,472,675	-	3,472,675	REN	Cross Cutting	Resource	Existing	REN
3C-REN	-	-	-	-	-	-	1,192,880	-	1,192,880	REN	Cross Cutting	Resource	New	REN
TOTAL SoCal Gas EE PORTFOLIO	**102,069,126**	**102,069,126**	**27,346,854**	**2,806,988**	**71,915,284**	**2,806,988**	**106,626,555**	**39,829,423**	**66,797,132**					

Note:
[1] The requested budget for PY2019 does not include the program budget for the SoCalGas Statewide Marketing, Education & Outreach (ME&O) program or the 2018 program budget for the Statewide Financing Pilots. The program year 2019 budgets for these programs were approved in D.13-09-044 and D.16-09-020, respectively.
[2] SCG considers 2016 and 2017 to be a bridge period to 2013-2017 Program cycle.
[3] Unspent funds for 2013-2015 and 2018 cycle is at the total level and is used to offset the 2019 budget requirement at the program level
[4] The estimated total pre-2018 Unspent/Uncommitted Carryover to offset the 2019 budget is for IOU only (column AD), and does not include REN Uncommitted/Unspent Carryover. REN Uncommitted/Unspent will be identified for the 2020 ABAL.

Appendix A - Budget Filing Appendix
PA Name: SoCalGas
Budget Year: 2019

Table 5 - Total 2019 Requested and 2013-2017 & 2018 Authorized Budgets ($000).

Category (2013-17 and 2018 Authorized[1] and 2019 Request)	Electric Demand Response Funds	Electric Energy Efficiency Funds	Natural Gas Public Purpose Funds	Total Energy Efficiency Funds
2013-2015 Annualized Program Funds - Utility			$ 79,470	$ 79,470
2013-2015 Annualized Program Funds - REN			$ 4,390	$ 4,390
2013-2015 Annualized Program Funds - CCA			$ -	$ -
2013-2015 Annualized EM&V			$ 3,550	$ 3,550
2013-2015 Total Annualized Portfolio			$ 87,410	$ 87,410
2016 Program Funds - Utility			$ 76,019	$ 76,019
2016 Program Funds - REN			$ 4,337	$ 4,337
2016 Program Funds - CCA			$ -	$ -
2016 EM&V			$ 3,348	$ 3,348
2016 Annualized Total			$ 83,704	$ 83,704
2017 Program Funds - Utility			$ 76,019	$ 76,019
2017 Program Funds - REN			$ 4,337	$ 4,337
2017 Program Funds - CCA			$ -	$ -
2017 EM&V			$ 3,348	$ 3,348
2017 Annualized Total			$ 83,704	$ 83,704
2018 Requested Program Funds - Utility			$ 94,647	$ 94,647
2018 Requested Program Funds - REN			$ 4,337	$ 4,337
2018 Requested Program Funds - CCA			$ -	$ -
2018 Requested EM&V			$ 4,166	$ 4,166
2018 Total Portfolio Request			$ 103,150	$ 103,150
2019 Requested Program Funds - Utility			$ 97,695,938	$ 97,695,938
2019 Requested Program Funds - SoCalREN			$ 3,472,675	$ 3,472,675
2019 Requested Program Funds - 3C-REN			$ 1,192,880	$ 1,192,880
2019 Requested Program Funds - CCA			$ -	$ -
2019 Requested EM&V			$ 4,265,062	$ 4,265,062
2019 Total Portfolio Request			$ 106,626,555	$ 106,626,555

[1] Authorized budget excludes reductions from past unspent funds, carryover and is consistent with funding approved in D. 09-09-047, D. 12-11-015, D.14-10-046, D.15-10-028, and D.18-05-041

Appendix A - Budget Filing Appendix
PA Name: SoCalGas
Budget Year: 2019

Table 6 - Committed Energy Efficiency Program Funding Not Yet Spent

Committed funds not yet spent ($000). Category	Electric Procurement Funds	Natural Gas Public Purpose Funds	Total
2013-2015 EM&V Funds		$ 7,372	$ 7,372
2013-2015 Program Funds - Utility		$ 21,666	$ 21,666
2013-2015 Program Funds - REN		$ 6,197	$ 6,197
2013-2015 Program Funds - CCA		$ -	$ -
2016 EM&V Funds		$ 87	$ 87
2016 Program Funds - Utility		$ 3,171	$ 3,171
2016 Program Funds - REN		$ (2,390)	$ (2,390)
2016 Program Funds - CCA		$ -	$ -
2017 to date EM&V Funds		$ 536	$ 536
2017 to date Program Funds - Utility		$ 12,689	$ 12,689
2017 to date Program Funds - REN		$ 2,348	$ 2,348
2017 to date Program Funds - CCA		$ -	$ -
2018 to date EM&V Funds		$ 3,931	$ 3,931
2018 to date Program Funds - Utility		$ 69,725	$ 69,725
2018 to date Program Funds - REN		$ (1,741)	$ (1,741)
2018 to date Program Funds - CCA		$ -	$ -
Total		$ 123,591	$ 123,591

Appendix A - Budget Filing Appendix
PA Name: SoCalGas
Budget Year: 2019

Table 7 - 2018 Authorized and Spent/Unspent Detail (June YTD 2018)

Authorized, spent and unspent program funds (excludes EM&V) ($000) Category	Electric Procurement Funds	Natural Gas Public Purpose Funds	Total
2018 Annualized Authorized Program Budget		**$ 97,903**	**$ 97,903**
2018 Actual Spent		**$ 27,111**	**$ 27,111**
2018 Unspent			
2018 Committed funds		**$ 67,985**	**$ 67,985**
2018 Unspent/uncommitted - estimated available for 2019		**$ 2,807**	**$ 2,807**
2017 and prior years unspent/uncommitted - estimated available for 2019		**$ 37,022**	**$ 37,022**
Total Unspent/uncommitted - estimated available for 2019		**$ 39,829**	**$ 39,829**

APPENDIX B

Advice No. 5349-A

2017 Energy Efficiency Sector Metrics

Southern California Gas
2017 Energy Efficiency Sector Metrics

Appendix B

September 4, 2018

Southern California Gas
Energy Efficiency Sector Metrics with Targets

Energy Division Template

September 4, 2018

Spreadsheet Index	PA	AttA Page	AttA Order	Method Code	Units of Measurement	Metric Type	Metric/ Indicator	Business Plan Att A Description	Metric	Sector	Baseline Year	Baseline Numerator	Baseline Denominator
0	SCG	A03	PL1	G	MT CO2eq	GHG	Metric	RSF2-G - Greenhouse gasses (MT CO2eq) Net kWh savings, reported on an annual basis	CO2-equivalent of net annual kWh savings	Portfolio Level (PL)– All Sectors	2016	N/A	N/A
1	SCG	A02	PL1	S1	First year annual kW gross	S1: Energy Savings	Metric	PL1-S1- First year annual and lifecycle ex-ante (pre-evaluation) gas, electric, and demand savings (gross and net)	First year annual kW gross	Portfolio Level (PL)– All Sectors	2016	N/A	N/A
2	SCG	A02	PL1	S1	First year annual kW net	S1: Energy Savings	Metric	PL1-S1- First year annual and lifecycle ex-ante (pre-evaluation) gas, electric, and demand savings (gross and net)	First year annual kW net	Portfolio Level (PL)– All Sectors	2016	N/A	N/A
3	SCG	A02	PL1	S1	First year annual kWh gross	S1: Energy Savings	Metric	PL1-S1- First year annual and lifecycle ex-ante (pre-evaluation) gas, electric, and demand savings (gross and net)	First year annual kWh gross	Portfolio Level (PL)– All Sectors	2016	N/A	N/A
4	SCG	A02	PL1	S1	First year annual kWh net	S1: Energy Savings	Metric	PL1-S1- First year annual and lifecycle ex-ante (pre-evaluation) gas, electric, and demand savings (gross and net)	First year annual kWh net	Portfolio Level (PL)– All Sectors	2016	N/A	N/A
5	SCG	A02	PL1	S1	First year annual Therm gross	S1: Energy Savings	Metric	PL1-S1- First year annual and lifecycle ex-ante (pre-evaluation) gas, electric, and demand savings (gross and net)	First year annual Therm gross	Portfolio Level (PL)– All Sectors	2016	N/A	N/A
6	SCG	A02	PL1	S1	First year annual Therm net	S1: Energy Savings	Metric	PL1-S1- First year annual and lifecycle ex-ante (pre-evaluation) gas, electric, and demand savings (gross and net)	First year annual Therm net	Portfolio Level (PL)– All Sectors	2016	N/A	N/A
7	SCG	A02	PL1	S1	Lifecycle ex-ante kW gross	S1: Energy Savings	Metric	PL1-S1- First year annual and lifecycle ex-ante (pre-evaluation) gas, electric, and demand savings (gross and net)	Lifecycle ex-ante kW gross	Portfolio Level (PL)– All Sectors	2016	N/A	N/A
8	SCG	A02	PL1	S1	Lifecycle ex-ante kW net	S1: Energy Savings	Metric	PL1-S1- First year annual and lifecycle ex-ante (pre-evaluation) gas, electric, and demand savings (gross and net)	Lifecycle ex-ante kW net	Portfolio Level (PL)– All Sectors	2016	N/A	N/A
9	SCG	A02	PL1	S1	Lifecycle ex-ante kWh gross	S1: Energy Savings	Metric	PL1-S1- First year annual and lifecycle ex-ante (pre-evaluation) gas, electric, and demand savings (gross and net)	Lifecycle ex-ante kWh gross	Portfolio Level (PL)– All Sectors	2016	N/A	N/A
10	SCG	A02	PL1	S1	Lifecycle ex-ante kWh net	S1: Energy Savings	Metric	PL1-S1- First year annual and lifecycle ex-ante (pre-evaluation) gas, electric, and demand savings (gross and net)	Lifecycle ex-ante kWh net	Portfolio Level (PL)– All Sectors	2016	N/A	N/A
11	SCG	A02	PL1	S1	Lifecycle ex-ante Therm gross	S1: Energy Savings	Metric	PL1-S1- First year annual and lifecycle ex-ante (pre-evaluation) gas, electric, and demand savings (gross and net)	Lifecycle ex-ante Therm gross	Portfolio Level (PL)– All Sectors	2016	N/A	N/A
12	SCG	A02	PL1	S1	Lifecycle ex-ante Therm net	S1: Energy Savings	Metric	PL1-S1- First year annual and lifecycle ex-ante (pre-evaluation) gas, electric, and demand savings (gross and net)	Lifecycle ex-ante Therm net	Portfolio Level (PL)– All Sectors	2016	N/A	N/A
13	SCG	A02	PL2	S3	First year annual kW gross	S3: DAC Savings	Metric	PL2-S3- First year annual and lifecycle ex-ante (pre-evaluation) gas, electric, and demand savings (gross and net) in disadvantaged communities	First year annual kW gross in Disadvantaged Communities	Portfolio Level (PL)– All Sectors	2016	N/A	N/A
14	SCG	A02	PL2	S3	First year annual kW net	S3: DAC Savings	Metric	PL2-S3- First year annual and lifecycle ex-ante (pre-evaluation) gas, electric, and demand savings (gross and net) in disadvantaged communities	First year annual kW net in Disadvantaged Communities	Portfolio Level (PL)– All Sectors	2016	N/A	N/A
15	SCG	A02	PL2	S3	First year annual kWh gross	S3: DAC Savings	Metric	PL2-S3- First year annual and lifecycle ex-ante (pre-evaluation) gas, electric, and demand savings (gross and net) in disadvantaged communities	First year annual kWh gross in Disadvantaged Communities	Portfolio Level (PL)– All Sectors	2016	N/A	N/A
16	SCG	A02	PL2	S3	First year annual kWh net	S3: DAC Savings	Metric	PL2-S3- First year annual and lifecycle ex-ante (pre-evaluation) gas, electric, and demand savings (gross and net) in disadvantaged communities	First year annual kWh net in Disadvantaged Communities	Portfolio Level (PL)– All Sectors	2016	N/A	N/A
17	SCG	A02	PL2	S3	First year annual Therm gross	S3: DAC Savings	Metric	PL2-S3- First year annual and lifecycle ex-ante (pre-evaluation) gas, electric, and demand savings (gross and net) in disadvantaged communities	First year annual Therm gross in Disadvantaged Communities	Portfolio Level (PL)– All Sectors	2016	N/A	N/A
18	SCG	A02	PL2	S3	First year annual Therm net	S3: DAC Savings	Metric	PL2-S3- First year annual and lifecycle ex-ante (pre-evaluation) gas, electric, and demand savings (gross and net) in disadvantaged communities	First year annual Therm net in Disadvantaged Communities	Portfolio Level (PL)– All Sectors	2016	N/A	N/A
19	SCG	A02	PL2	S3	Lifecycle ex-ante kW gross	S3: DAC Savings	Metric	PL2-S3- First year annual and lifecycle ex-ante (pre-evaluation) gas, electric, and demand savings (gross and net) in disadvantaged communities	Lifecycle ex-ante kW gross in Disadvantaged Communities	Portfolio Level (PL)– All Sectors	2016	N/A	N/A
20	SCG	A02	PL2	S3	Lifecycle ex-ante kW net	S3: DAC Savings	Metric	PL2-S3- First year annual and lifecycle ex-ante (pre-evaluation) gas, electric, and demand savings (gross and net) in disadvantaged communities	Lifecycle ex-ante kW net in Disadvantaged Communities	Portfolio Level (PL)– All Sectors	2016	N/A	N/A
21	SCG	A02	PL2	S3	Lifecycle ex-ante kWh gross	S3: DAC Savings	Metric	PL2-S3- First year annual and lifecycle ex-ante (pre-evaluation) gas, electric, and demand savings (gross and net) in disadvantaged communities	Lifecycle ex-ante kWh gross in Disadvantaged Communities	Portfolio Level (PL)– All Sectors	2016	N/A	N/A

Spreadsheet Index	PA	AttA Page	AttA Order	Method Code	Units of Measurement	Metric Type	Metric/ Indicator	Business Plan Att A Description	Metric	Sector	Baseline Year	Baseline Numerator	Baseline Denominator
22	SCG	A02	PL2	S3	Lifecycle ex-ante kWh net	S3: DAC Savings	Metric	PL2-S3- First year annual and lifecycle ex-ante (pre-evaluation) gas, electric, and demand savings (gross and net) in disadvantaged communities	Lifecycle ex-ante kWh net in Disadvantaged Communities	Portfolio Level (PL)– All Sectors	2016	N/A	N/A
23	SCG	A02	PL2	S3	Lifecycle ex-ante Therm gross	S3: DAC Savings	Metric	PL2-S3- First year annual and lifecycle ex-ante (pre-evaluation) gas, electric, and demand savings (gross and net) in disadvantaged communities	Lifecycle ex-ante Therm gross in Disadvantaged Communities	Portfolio Level (PL)– All Sectors	2016	N/A	N/A
24	SCG	A02	PL2	S3	Lifecycle ex-ante Therm net	S3: DAC Savings	Metric	PL2-S3- First year annual and lifecycle ex-ante (pre-evaluation) gas, electric, and demand savings (gross and net) in disadvantaged communities	Lifecycle ex-ante Therm net in Disadvantaged Communities	Portfolio Level (PL)– All Sectors	2016	N/A	N/A
25	SCG	A02	PL3	S4	First year annual kW gross	S4: Hard to reach markets	Metric	PL3-S4 - 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 kW gross in Hard-to-Reach Markets	Portfolio Level (PL)– All Sectors	2016	N/A	N/A
26	SCG	A02	PL3	S4	First year annual kW net	S4: Hard to reach markets	Metric	PL3-S4 - 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 kW net in Hard-to-Reach Markets	Portfolio Level (PL)– All Sectors	2016	N/A	N/A
27	SCG	A02	PL3	S4	First year annual kWh gross	S4: Hard to reach markets	Metric	PL3-S4 - 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 (PL)– All Sectors	2016	N/A	N/A
28	SCG	A02	PL3	S4	First year annual kWh net	S4: Hard to reach markets	Metric	PL3-S4 - 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	Portfolio Level (PL)– All Sectors	2016	N/A	N/A
29	SCG	A02	PL3	S4	First year annual Therm gross	S4: Hard to reach markets	Metric	PL3-S4 - 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 Therm gross	Portfolio Level (PL)– All Sectors	2016	N/A	N/A
30	SCG	A02	PL3	S4	First year annual Therm net	S4: Hard to reach markets	Metric	PL3-S4 - 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 Therm net	Portfolio Level (PL)– All Sectors	2016	N/A	N/A
31	SCG	A02	PL3	S4	Lifecycle ex-ante kW gross	S4: Hard to reach markets	Metric	PL3-S4 - 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 kW gross	Portfolio Level (PL)– All Sectors	2016	N/A	N/A
32	SCG	A02	PL3	S4	Lifecycle ex-ante kW net	S4: Hard to reach markets	Metric	PL3-S4 - 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 kW net	Portfolio Level (PL)– All Sectors	2016	N/A	N/A
33	SCG	A02	PL3	S4	Lifecycle ex-ante kWh gross	S4: Hard to reach markets	Metric	PL3-S4 - 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	Portfolio Level (PL)– All Sectors	2016	N/A	N/A
34	SCG	A02	PL3	S4	Lifecycle ex-ante kWh net	S4: Hard to reach markets	Metric	PL3-S4 - 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	Portfolio Level (PL)– All Sectors	2016	N/A	N/A
35	SCG	A02	PL3	S4	Lifecycle ex-ante Therm gross	S4: Hard to reach markets	Metric	PL3-S4 - 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 Therm gross	Portfolio Level (PL)– All Sectors	2016	N/A	N/A
36	SCG	A02	PL3	S4	Lifecycle ex-ante Therm net	S4: Hard to reach markets	Metric	PL3-S4 - 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 Therm net	Portfolio Level (PL)– All Sectors	2016	N/A	N/A
37	SCG	A02	PL4	LC	PAC Levelized Cost ($/kW)	Cost per unit saved	Metric	PL4-LC - Levelized cost of energy efficiency per kWh, therm and kW (use both TRC and PAC)	PAC Levelized Cost ($/kW)	Portfolio Level (PL)– All Sectors	2016	N/A	N/A
38	SCG	A02	PL4	LC	PAC Levelized Cost ($/kWh)	Cost per unit saved	Metric	PL4-LC - Levelized cost of energy efficiency per kWh, therm and kW (use both TRC and PAC)	PAC Levelized Cost ($/kWh)	Portfolio Level (PL)– All Sectors	2016	N/A	N/A
39	SCG	A02	PL4	LC	PAC Levelized Cost ($/therm)	Cost per unit saved	Metric	PL4-LC - Levelized cost of energy efficiency per kWh, therm and kW (use both TRC and PAC)	PAC Levelized Cost ($/therm)	Portfolio Level (PL)– All Sectors	2016	48,394,327	111,920,132
40	SCG	A02	PL4	LC	TRC Levelized Cost ($/kW)	Cost per unit saved	Metric	PL4-LC - Levelized cost of energy efficiency per kWh, therm and kW (use both TRC and PAC)	TRC Levelized Cost ($/kW)	Portfolio Level (PL)– All Sectors	2016	N/A	N/A

Spreadsheet Index	PA	AttA Page	AttA Order	Method Code	Units of Measurement	Metric Type	Metric/ Indicator	Business Plan Att A Description	Metric	Sector	Baseline Year	Baseline Numerator	Baseline Denominator
41	SCG	A02	PL4	LC	TRC Levelized Cost ($/kWh)	Cost per unit saved	Metric	PL4-LC - Levelized cost of energy efficiency per kWh, therm and kW (use both TRC and PAC)	TRC Levelized Cost ($/kWh)	Portfolio Level (PL)– All Sectors	2016	N/A	N/A
42	SCG	A02	PL4	LC	TRC Levelized Cost ($/therm)	Cost per unit saved	Metric	PL4-LC - Levelized cost of energy efficiency per kWh, therm and kW (use both TRC and PAC)	TRC Levelized Cost ($/therm)	Portfolio Level (PL)– All Sectors	2016	79,173,600	111,920,132
43	SCG	A02	RSF1	S1	First year annual kW gross	S1: Energy Savings	Metric	RSF1-S1-First year annual and lifecycle ex-ante (pre-evaluation) gas, electric, and demand savings (gross and net) for Single Family Customers	First year annual kW gross	Residential (RSF)	2016	N/A	N/A
44	SCG	A02	RSF1	S1	First year annual kW net	S1: Energy Savings	Metric	RSF1-S1-First year annual and lifecycle ex-ante (pre-evaluation) gas, electric, and demand savings (gross and net) for Single Family Customers	First year annual kW net	Residential (RSF)	2016	N/A	N/A
45	SCG	A02	RSF1	S1	First year annual kWh gross	S1: Energy Savings	Metric	RSF1-S1-First year annual and lifecycle ex-ante (pre-evaluation) gas, electric, and demand savings (gross and net) for Single Family Customers	First year annual kWh gross	Residential (RSF)	2016	N/A	N/A
46	SCG	A02	RSF1	S1	First year annual kWh net	S1: Energy Savings	Metric	RSF1-S1-First year annual and lifecycle ex-ante (pre-evaluation) gas, electric, and demand savings (gross and net) for Single Family Customers	First year annual kWh net	Residential (RSF)	2016	N/A	N/A
47	SCG	A02	RSF1	S1	First year annual Therm gross	S1: Energy Savings	Metric	RSF1-S1-First year annual and lifecycle ex-ante (pre-evaluation) gas, electric, and demand savings (gross and net) for Single Family Customers	First year annual Therm gross	Residential (RSF)	2016	N/A	N/A
48	SCG	A02	RSF1	S1	First year annual Therm net	S1: Energy Savings	Metric	RSF1-S1-First year annual and lifecycle ex-ante (pre-evaluation) gas, electric, and demand savings (gross and net) for Single Family Customers	First year annual Therm net	Residential (RSF)	2016	N/A	N/A
49	SCG	A02	RSF1	S1	Lifecycle ex-ante kW gross	S1: Energy Savings	Metric	RSF1-S1-First year annual and lifecycle ex-ante (pre-evaluation) gas, electric, and demand savings (gross and net) for Single Family Customers	Lifecycle ex-ante kW gross	Residential (RSF)	2016	N/A	N/A
50	SCG	A02	RSF1	S1	Lifecycle ex-ante kW net	S1: Energy Savings	Metric	RSF1-S1-First year annual and lifecycle ex-ante (pre-evaluation) gas, electric, and demand savings (gross and net) for Single Family Customers	Lifecycle ex-ante kW net	Residential (RSF)	2016	N/A	N/A
51	SCG	A02	RSF1	S1	Lifecycle ex-ante kWh gross	S1: Energy Savings	Metric	RSF1-S1-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 (RSF)	2016	N/A	N/A
52	SCG	A02	RSF1	S1	Lifecycle ex-ante kWh net	S1: Energy Savings	Metric	RSF1-S1-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 (RSF)	2016	N/A	N/A
53	SCG	A02	RSF1	S1	Lifecycle ex-ante Therm gross	S1: Energy Savings	Metric	RSF1-S1-First year annual and lifecycle ex-ante (pre-evaluation) gas, electric, and demand savings (gross and net) for Single Family Customers	Lifecycle ex-ante Therm gross	Residential (RSF)	2016	N/A	N/A
54	SCG	A02	RSF1	S1	Lifecycle ex-ante Therm net	S1: Energy Savings	Metric	RSF1-S1-First year annual and lifecycle ex-ante (pre-evaluation) gas, electric, and demand savings (gross and net) for Single Family Customers	Lifecycle ex-ante Therm net	Residential (RSF)	2016	N/A	N/A
55	SCG	A03	RSF2	G	MT CO2eq	GHG	Metric	RSF2-GGreenhouse gasses (MT CO2eq) Net kWh savings, reported on an annual basis	CO2-equivalent of net annual kWh savings	Residential (RSF)	2016	N/A	N/A
56	SCG	A03	RSF3	D1-D	Lifecycle NET kW	D1: Depth of interventions Per downstream participant	Metric	RSF3-D1D - Average savings per participant in both opt-in and opt-out programs (broken down by downstream, midstream and upstream, as feasible)	Average lifecycle ex-ante kW net savings per participant - Opt-in - Downstream	Residential (RSF)	2016	N/A	N/A
57	SCG	A03	RSF3	D1-D	Lifecycle NET kWh	D1: Depth of interventions Per downstream participant	Metric	RSF3-D1D - Average savings per participant 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 (RSF)	2016	N/A	N/A
58	SCG	A03	RSF3	D1-D	Lifecycle NET Therms	D1: Depth of interventions Per downstream participant	Metric	RSF3-D1D - Average savings per participant in both opt-in and opt-out programs (broken down by downstream, midstream and upstream, as feasible)	Average lifecycle ex-ante Therm net savings per participant - Opt-in - Downstream	Residential (RSF)	2016	12,324,106	71,113
59	SCG	A03	RSF3	D1-M	Lifecycle NET kW	D1: Depth of interventions Per midstream participant	Metric	RSF3-D1M - Average savings per participant in both opt-in and opt-out programs (broken down by downstream, midstream and upstream, as feasible)	Average lifecycle ex-ante kW net savings per participant - Opt-in - Midstream	Residential (RSF)	2016	N/A	N/A
60	SCG	A03	RSF3	D1-M	Lifecycle NET kWh	D1: Depth of interventions Per midstream participant	Metric	RSF3-D1M - Average savings per participant 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 - Midstream	Residential (RSF)	2016	N/A	N/A
61	SCG	A03	RSF3	D1-M	Lifecycle NET Therms	D1: Depth of interventions Per midstream participant	Metric	RSF3-D1M - Average savings per participant in both opt-in and opt-out programs (broken down by downstream, midstream and upstream, as feasible)	Average lifecycle ex-ante Therm net savings per participant - Opt-in - Midstream	Residential (RSF)	2016	1,851,854	29,126

Spreadsheet Index	PA	AttA Page	AttA Order	Method Code	Units of Measurement	Metric Type	Metric/ Indicator	Business Plan Att A Description	Metric	Sector	Baseline Year	Baseline Numerator	Baseline Denominator
62	SCG	A03	RSF3	D1-O	Lifecycle NET kW	D1: Depth of interventions Per opt out participant	Metric	RSF3-D1O - Average savings per participant in both opt-in and opt-out programs (broken down by downstream, midstream and upstream, as feasible)	Average lifecycle ex-ante kW net savings per participant - Opt-out	Residential (RSF)	2016	N/A	N/A
63	SCG	A03	RSF3	D1-O	Lifecycle NET kWh	D1: Depth of interventions Per opt out participant	Metric	RSF3-D1O - Average savings per participant 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-out	Residential (RSF)	2016	N/A	N/A
64	SCG	A03	RSF3	D1-O	Lifecycle NET Therms	D1: Depth of interventions Per opt out participant	Metric	RSF3-D1O - Average savings per participant in both opt-in and opt-out programs (broken down by downstream, midstream and upstream, as feasible)	Average lifecycle ex-ante Therm net savings per participant - Opt-out	Residential (RSF)	2016	-	-
65	SCG	A03	RSF3	D1-U	Lifecycle NET kW	D1: Depth of interventions Per upstream participant	Metric	RSF3-D1U- Average savings per participant in both opt-in and opt-out programs (broken down by downstream, midstream and upstream, as feasible)	Average lifecycle ex-ante kW net savings per participant - Opt-in - Upstream	Residential (RSF)	2016	N/A	N/A
66	SCG	A03	RSF3	D1-U	Lifecycle NET kWh	D1: Depth of interventions Per upstream participant	Metric	RSF3-D1U- Average savings per participant 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 - Upstream	Residential (RSF)	2016	N/A	N/A
67	SCG	A03	RSF3	D1-U	Lifecycle NET Therms	D1: Depth of interventions Per upstream participant	Metric	RSF3-D1U- Average savings per participant in both opt-in and opt-out programs (broken down by downstream, midstream and upstream, as feasible)	Average lifecycle ex-ante Therm net savings per participant - Opt-in - Upstream	Residential (RSF)	2016	2,434,118	2,887
68	SCG	A03	RSF4	P1	Percent	P1: Penetration of energy efficiency programs in the eligible market Percent of Participation	Metric	RSF-P1Percent of participation relative to eligible population	Percent of participation relative to eligible population	Residential (RSF)	2016	103,126	3,664,679
69	SCG	A03	RSF4	P3	Percent	P3: Penetration of energy efficiency programs in the eligible market - DAC	Metric	RSF-P3 - Percent of participation in disadvantaged communities	Percent of participation in disadvantaged communities	Residential (RSF)	2016	42,475	921,758
70	SCG	A03	RSF4	P4	Percent	P4: Penetration of energy efficiency programs in the HTR market	Metric	RSF-P4 - Percent of participation by customers defined as “hard-to-reach”	Percent of participation by customers defined as “hard-to-reach”	Residential (RSF)	2016	48,224	1,228,475
71	SCG	A03	RSF5	LC	PAC Levelized Cost ($/kW)	Cost per unit saved	Metric	RSF-LC - Levelized cost of energy efficiency per kWh, therm and kW (use both TRC and PAC)	PAC Levelized Cost ($/kW)	Residential (RSF)	2016	N/A	N/A
72	SCG	A03	RSF5	LC	PAC Levelized Cost ($/kWh)	Cost per unit saved	Metric	RSF-LC - Levelized cost of energy efficiency per kWh, therm and kW (use both TRC and PAC)	PAC Levelized Cost ($/kWh)	Residential (RSF)	2016	N/A	N/A
73	SCG	A03	RSF5	LC	PAC Levelized Cost ($/therm)	Cost per unit saved	Metric	RSF-LC - Levelized cost of energy efficiency per kWh, therm and kW (use both TRC and PAC)	PAC Levelized Cost ($/therm)	Residential (RSF)	2016	12,290,924	16,610,078
74	SCG	A03	RSF5	LC	TRC Levelized Cost ($/kW)	Cost per unit saved	Metric	RSF-LC - Levelized cost of energy efficiency per kWh, therm and kW (use both TRC and PAC)	TRC Levelized Cost ($/kW)	Residential (RSF)	2016	N/A	N/A
75	SCG	A03	RSF5	LC	TRC Levelized Cost ($/kWh)	Cost per unit saved	Metric	RSF-LC - Levelized cost of energy efficiency per kWh, therm and kW (use both TRC and PAC)	TRC Levelized Cost ($/kWh)	Residential (RSF)	2016	N/A	N/A
76	SCG	A03	RSF5	LC	TRC Levelized Cost ($/therm)	Cost per unit saved	Metric	RSF-LC - Levelized cost of energy efficiency per kWh, therm and kW (use both TRC and PAC)	TRC Levelized Cost ($/therm)	Residential (RSF)	2016	28,281,745	16,610,078
77	SCG	A03	RSF6i	EI1	Kbtu/Sqft	Energy intensity per SF household	Indicator	RSF-EI1(Indicator) - Average energy use intensity of single family homes (average usage per household – not adjusted)	Average first year annual kWh gross per household	Residential (RSF)	N/A - Indicator	N/A - Indicator	N/A - Indicator
78	SCG	A03	RMF1	S1-IU	First year annual kW gross	S1: Energy Savings	Metric	RMF-S1-First year annual and lifecycle ex-ante (pre-evaluation) gas, electric, and demand savings (gross and net) for multifamily customers (in-unit, common area, and master metered accounts)	First year annual kW gross - In Unit	Residential Sector – Multi-family (RMF)	2016	N/A	N/A
79	SCG	A03	RMF1	S1-IU	First year annual kW net	S1: Energy Savings	Metric	RMF-S1-First year annual and lifecycle ex-ante (pre-evaluation) gas, electric, and demand savings (gross and net) for multifamily customers (in-unit, common area, and master metered accounts)	First year annual kW net - In Unit	Residential Sector – Multi-family (RMF)	2016	N/A	N/A
80	SCG	A03	RMF1	S1-IU	First year annual kWh gross	S1: Energy Savings	Metric	RMF-S1-First year annual and lifecycle ex-ante (pre-evaluation) gas, electric, and demand savings (gross and net) for multifamily customers (in-unit, common area, and master metered accounts)	First year annual kWh gross - In Unit	Residential Sector – Multi-family (RMF)	2016	N/A	N/A

Spreadsheet Index	PA	AttA Page	AttA Order	Method Code	Units of Measurement	Metric Type	Metric/ Indicator	Business Plan Att A Description	Metric	Sector	Baseline Year	Baseline Numerator	Baseline Denominator
81	SCG	A03	RMF1	S1-IU	First year annual kWh net	S1: Energy Savings	Metric	RMF-S1-First year annual and lifecycle ex-ante (pre-evaluation) gas, electric, and demand savings (gross and net) for multifamily customers (in-unit, common area, and master metered accounts)	First year annual kWh net - In Unit	Residential Sector – Multi-family (RMF)	2016	N/A	N/A
82	SCG	A03	RMF1	S1-IU	First year annual Therm gross	S1: Energy Savings	Metric	RMF-S1-First year annual and lifecycle ex-ante (pre-evaluation) gas, electric, and demand savings (gross and net) for multifamily customers (in-unit, common area, and master metered accounts)	First year annual Therm gross - In Unit	Residential Sector – Multi-family (RMF)	2016	N/A	N/A
83	SCG	A03	RMF1	S1-IU	First year annual Therm net	S1: Energy Savings	Metric	RMF-S1-First year annual and lifecycle ex-ante (pre-evaluation) gas, electric, and demand savings (gross and net) for multifamily customers (in-unit, common area, and master metered accounts)	First year annual Therm net - In Unit	Residential Sector – Multi-family (RMF)	2016	N/A	N/A
84	SCG	A03	RMF1	S1-IU	Lifecycle ex-ante kW gross	S1: Energy Savings	Metric	RMF-S1-First year annual and lifecycle ex-ante (pre-evaluation) gas, electric, and demand savings (gross and net) for multifamily customers (in-unit, common area, and master metered accounts)	Lifecycle ex-ante kW gross - In Unit	Residential Sector – Multi-family (RMF)	2016	N/A	N/A
85	SCG	A03	RMF1	S1-IU	Lifecycle ex-ante kW net	S1: Energy Savings	Metric	RMF-S1-First year annual and lifecycle ex-ante (pre-evaluation) gas, electric, and demand savings (gross and net) for multifamily customers (in-unit, common area, and master metered accounts)	Lifecycle ex-ante kW net - In Unit	Residential Sector – Multi-family (RMF)	2016	N/A	N/A
86	SCG	A03	RMF1	S1-IU	Lifecycle ex-ante kWh gross	S1: Energy Savings	Metric	RMF-S1-First year annual and lifecycle ex-ante (pre-evaluation) gas, electric, and demand 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)	2016	N/A	N/A
87	SCG	A03	RMF1	S1-IU	Lifecycle ex-ante kWh net	S1: Energy Savings	Metric	RMF-S1-First year annual and lifecycle ex-ante (pre-evaluation) gas, electric, and demand 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)	2016	N/A	N/A
88	SCG	A03	RMF1	S1-IU	Lifecycle ex-ante Therm gross	S1: Energy Savings	Metric	RMF-S1-First year annual and lifecycle ex-ante (pre-evaluation) gas, electric, and demand 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)	2016	N/A	N/A
89	SCG	A03	RMF1	S1-IU	Lifecycle ex-ante Therm net	S1: Energy Savings	Metric	RMF-S1-First year annual and lifecycle ex-ante (pre-evaluation) gas, electric, and demand 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)	2016	N/A	N/A
90	SCG	A03	RMF1	S1-MM	First year annual kW gross	S1: Energy Savings	Metric	RMF-S1-First year annual and lifecycle ex-ante (pre-evaluation) gas, electric, and demand savings (gross and net) for multifamily customers (in-unit, common area, and master metered accounts)	First year annual kW gross - Master Metereed	Residential Sector – Multi-family (RMF)	2016	N/A	N/A
91	SCG	A03	RMF1	S1-MM	First year annual kW net	S1: Energy Savings	Metric	RMF-S1-First year annual and lifecycle ex-ante (pre-evaluation) gas, electric, and demand savings (gross and net) for multifamily customers (in-unit, common area, and master metered accounts)	First year annual kW net - Master Metered	Residential Sector – Multi-family (RMF)	2016	N/A	N/A
92	SCG	A03	RMF1	S1-MM	First year annual kWh gross	S1: Energy Savings	Metric	RMF-S1-First year annual and lifecycle ex-ante (pre-evaluation) gas, electric, and demand savings (gross and net) for multifamily customers (in-unit, common area, and master metered accounts)	First year annual kWh gross - Master Metered	Residential Sector – Multi-family (RMF)	2016	N/A	N/A
93	SCG	A03	RMF1	S1-MM	First year annual kWh net	S1: Energy Savings	Metric	RMF-S1-First year annual and lifecycle ex-ante (pre-evaluation) gas, electric, and demand savings (gross and net) for multifamily customers (in-unit, common area, and master metered accounts)	First year annual kWh net - Master Metered	Residential Sector – Multi-family (RMF)	2016	N/A	N/A
94	SCG	A03	RMF1	S1-MM	First year annual Therm gross	S1: Energy Savings	Metric	RMF-S1-First year annual and lifecycle ex-ante (pre-evaluation) gas, electric, and demand savings (gross and net) for multifamily customers (in-unit, common area, and master metered accounts)	First year annual Therm gross - Master Metered	Residential Sector – Multi-family (RMF)	2016	N/A	N/A
95	SCG	A03	RMF1	S1-MM	First year annual Therm net	S1: Energy Savings	Metric	RMF-S1-First year annual and lifecycle ex-ante (pre-evaluation) gas, electric, and demand savings (gross and net) for multifamily customers (in-unit, common area, and master metered accounts)	First year annual Therm net - Master Metered	Residential Sector – Multi-family (RMF)	2016	N/A	N/A
96	SCG	A03	RMF1	S1-MM	Lifecycle ex-ante kW gross	S1: Energy Savings	Metric	RMF-S1-First year annual and lifecycle ex-ante (pre-evaluation) gas, electric, and demand savings (gross and net) for multifamily customers (in-unit, common area, and master metered accounts)	Lifecycle ex-ante kW gross - Master Metered	Residential Sector – Multi-family (RMF)	2016	N/A	N/A

Spreadsheet Index	PA	AttA Page	AttA Order	Method Code	Units of Measurement	Metric Type	Metric/ Indicator	Business Plan Att A Description	Metric	Sector	Baseline Year	Baseline Numerator	Baseline Denominator
97	SCG	A03	RMF1	S1-MM	Lifecycle ex-ante kW net	S1: Energy Savings	Metric	RMF-S1-First year annual and lifecycle ex-ante (pre-evaluation) gas, electric, and demand savings (gross and net) for multifamily customers (in-unit, common area, and master metered accounts)	Lifecycle ex-ante kW net - Master Metered	Residential Sector – Multi-family (RMF)	2016	N/A	N/A
98	SCG	A03	RMF1	S1-MM	Lifecycle ex-ante kWh gross	S1: Energy Savings	Metric	RMF-S1-First year annual and lifecycle ex-ante (pre-evaluation) gas, electric, and demand savings (gross and net) for multifamily customers (in-unit, common area, and master metered accounts)	Lifecycle ex-ante kWh gross - Master Metered	Residential Sector – Multi-family (RMF)	2016	N/A	N/A
99	SCG	A03	RMF1	S1-MM	Lifecycle ex-ante kWh net	S1: Energy Savings	Metric	RMF-S1-First year annual and lifecycle ex-ante (pre-evaluation) gas, electric, and demand savings (gross and net) for multifamily customers (in-unit, common area, and master metered accounts)	Lifecycle ex-ante kWh net - Master Metered	Residential Sector – Multi-family (RMF)	2016	N/A	N/A
100	SCG	A03	RMF1	S1-MM	Lifecycle ex-ante Therm gross	S1: Energy Savings	Metric	RMF-S1-First year annual and lifecycle ex-ante (pre-evaluation) gas, electric, and demand savings (gross and net) for multifamily customers (in-unit, common area, and master metered accounts)	Lifecycle ex-ante Therm gross - Master Metered	Residential Sector – Multi-family (RMF)	2016	N/A	N/A
101	SCG	A03	RMF1	S1-MM	Lifecycle ex-ante Therm net	S1: Energy Savings	Metric	RMF-S1-First year annual and lifecycle ex-ante (pre-evaluation) gas, electric, and demand savings (gross and net) for multifamily customers (in-unit, common area, and master metered accounts)	Lifecycle ex-ante Therm net - Master Metered	Residential Sector – Multi-family (RMF)	2016	N/A	N/A
102	SCG	A03	RMF1	SI-CA	First year annual kW gross	S1: Energy Savings	Metric	RMF-S1-First year annual and lifecycle ex-ante (pre-evaluation) gas, electric, and demand savings (gross and net) for multifamily customers (in-unit, common area, and master metered accounts)	First year annual kW gross - Common Area	Residential Sector – Multi-family (RMF)	2016	N/A	N/A
103	SCG	A03	RMF1	SI-CA	First year annual kW net	S1: Energy Savings	Metric	RMF-S1-First year annual and lifecycle ex-ante (pre-evaluation) gas, electric, and demand savings (gross and net) for multifamily customers (in-unit, common area, and master metered accounts)	First year annual kW net - Common Area	Residential Sector – Multi-family (RMF)	2016	N/A	N/A
104	SCG	A03	RMF1	SI-CA	First year annual kWh gross	S1: Energy Savings	Metric	RMF-S1-First year annual and lifecycle ex-ante (pre-evaluation) gas, electric, and demand savings (gross and net) for multifamily customers (in-unit, common area, and master metered accounts)	First year annual kWh gross - Common Area	Residential Sector – Multi-family (RMF)	2016	N/A	N/A
105	SCG	A03	RMF1	SI-CA	First year annual kWh net	S1: Energy Savings	Metric	RMF-S1-First year annual and lifecycle ex-ante (pre-evaluation) gas, 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	Residential Sector – Multi-family (RMF)	2016	N/A	N/A
106	SCG	A03	RMF1	SI-CA	First year annual Therm gross	S1: Energy Savings	Metric	RMF-S1-First year annual and lifecycle ex-ante (pre-evaluation) gas, electric, and demand savings (gross and net) for multifamily customers (in-unit, common area, and master metered accounts)	First year annual Therm gross - Common Area	Residential Sector – Multi-family (RMF)	2016	N/A	N/A
107	SCG	A03	RMF1	SI-CA	First year annual Therm net	S1: Energy Savings	Metric	RMF-S1-First year annual and lifecycle ex-ante (pre-evaluation) gas, electric, 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 – Multi-family (RMF)	2016	N/A	N/A
108	SCG	A03	RMF1	SI-CA	Lifecycle ex-ante kW gross	S1: Energy Savings	Metric	RMF-S1-First year annual and lifecycle ex-ante (pre-evaluation) gas, electric, and demand savings (gross and net) for multifamily customers (in-unit, common area, and master metered accounts)	Lifecycle ex-ante kW gross - Common Area	Residential Sector – Multi-family (RMF)	2016	N/A	N/A
109	SCG	A03	RMF1	SI-CA	Lifecycle ex-ante kW net	S1: Energy Savings	Metric	RMF-S1-First year annual and lifecycle ex-ante (pre-evaluation) gas, electric, and demand savings (gross and net) for multifamily customers (in-unit, common area, and master metered accounts)	Lifecycle ex-ante kW net - Common Area	Residential Sector – Multi-family (RMF)	2016	N/A	N/A
110	SCG	A03	RMF1	SI-CA	Lifecycle ex-ante kWh gross	S1: Energy Savings	Metric	RMF-S1-First year annual and lifecycle ex-ante (pre-evaluation) gas, electric, and demand savings (gross and net) for multifamily customers (in-unit, common area, and master metered accounts)	Lifecycle ex-ante kWh gross - Common Area	Residential Sector – Multi-family (RMF)	2016	N/A	N/A
111	SCG	A03	RMF1	SI-CA	Lifecycle ex-ante kWh net	S1: Energy Savings	Metric	RMF-S1-First year annual and lifecycle ex-ante (pre-evaluation) gas, electric, and demand savings (gross and net) for multifamily customers (in-unit, common area, and master metered accounts)	Lifecycle ex-ante kWh net - Common Area	Residential Sector – Multi-family (RMF)	2016	N/A	N/A
112	SCG	A03	RMF1	SI-CA	Lifecycle ex-ante Therm gross	S1: Energy Savings	Metric	RMF-S1-First year annual and lifecycle ex-ante (pre-evaluation) gas, electric, and demand savings (gross and net) for multifamily customers (in-unit, common area, and master metered accounts)	Lifecycle ex-ante Therm gross - Common Area	Residential Sector – Multi-family (RMF)	2016	N/A	N/A

Spreadsheet Index	PA	AttA Page	AttA Order	Method Code	Units of Measurement	Metric Type	Metric/ Indicator	Business Plan Att A Description	Metric	Sector	Baseline Year	Baseline Numerator	Baseline Denominator
113	SCG	A03	RMF1	SI-CA	Lifecycle ex-ante Therm net	S1: Energy Savings	Metric	RMF-S1-First year annual and lifecycle ex-ante (pre-evaluation) gas, electric, and demand savings (gross and net) for multifamily customers (in-unit, common area, and master metered accounts)	Lifecycle ex-ante Therm net - Common Area	Residential Sector – Multi-family (RMF)	2016	N/A	N/A
114	SCG	A03	RMF2	G	MT CO2eq	GHG	Metric	RMF-G Greenhouse gasses (MT CO2eq) Net kWh savings, reported on an annual basis	CO2-equivalent of net annual kWh savings	Residential Sector – Multi-family (RMF)	2016	N/A	N/A
115	SCG	A04	RMF3	D3a	Lifecycle NET kW	D3: Depth of interventions per building	Metric	RMF-D3 - Energy savings (kWh, kw, therms) per project (building)	Lifecycle ex-ante kW net per project (building)	Residential Sector – Multi-family (RMF)	2016	N/A	N/A
116	SCG	A04	RMF3	D3a	Lifecycle NET kWh	D3: Depth of interventions per building	Metric	RMF-D3 - Energy savings (kWh, kw, therms) per project (building)	Lifecycle ex-ante kWh net per project (building)	Residential Sector – Multi-family (RMF)	2016	N/A	N/A
117	SCG	A04	RMF3	D3a	Lifecycle NET Therms	D3: Depth of interventions per building	Metric	RMF-D3 - Energy savings (kWh, kw, therms) per project (building)	Lifecycle ex-ante Therm net per project (building)	Residential Sector – Multi-family (RMF)	2016	8,275,483	1,973
118	SCG	A04	RMF3	D4	Lifecycle NET kW	D4: Depth of interventions per property	Metric	RMF-D4 - Average savings per participant Savings per project (property)	Lifecycle ex-ante kW net per project (property)	Residential Sector – Multi-family (RMF)	2016	N/A	N/A
119	SCG	A04	RMF3	D4	Lifecycle NET kWh	D4: Depth of interventions per property	Metric	RMF-D4 - Average savings per participant Savings per project (property)	Lifecycle ex-ante kWh net per project (property)	Residential Sector – Multi-family (RMF)	2016	N/A	N/A
120	SCG	A04	RMF3	D4	Lifecycle NET Therms	D4: Depth of interventions per property	Metric	RMF-D4 - Average savings per participant Savings per project (property)	Lifecycle ex-ante Therm net per project (property)	Residential Sector – Multi-family (RMF)	2016	1,574,918	14,251
121	SCG	A04	RMF3	D5	Lifecycle NET kW	D5: Depth of interventions Per square foot	Metric	RMF-D5 Energy savings (kWh, kw, therms) per square foot	Lifecycle ex-ante kW net per square foot	Residential Sector – Multi-family (RMF)	2016	N/A	N/A
122	SCG	A04	RMF3	D5	Lifecycle NET kWh	D5: Depth of interventions Per square foot	Metric	RMF-D5 Energy savings (kWh, kw, therms) per square foot	Lifecycle ex-ante kWh net per square foot	Residential Sector – Multi-family (RMF)	2016	N/A	N/A
123	SCG	A04	RMF3	D5	Lifecycle NET Therms	D5: Depth of interventions Per square foot	Metric	RMF-D5 Energy savings (kWh, kw, therms) per square foot	Lifecycle ex-ante Therm net per square foot	Residential Sector – Multi-family (RMF)	2016	9,850,401	34,632,692
124	SCG	A04	RMF4	P1-P	Percent	P1: Penetration of energy efficiency programs in the eligible market Percent of Participation	Metric	RMF-P1P 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	1,973	118,080
125	SCG	A04	RMF4	P1-U	Percent	P1: Penetration of energy efficiency programs in the eligible market Percent of Participation	Metric	RMF-P1U 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	16,224	1,719,803
126	SCG	A04	RMF4	P2	Percent	P2: Penetration of energy efficiency programs in terms of **square feet of eligible population**	Metric	RMF-P2 - 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	13,324,292	1,608,015,805
127	SCG	A04	RMF4	P3: DAC	Percent	P3: Penetration of energy efficiency programs in the eligible market - DAC	Metric	RMF-P3 - Percent of participation in disadvantaged communities	Percent of participation in disadvantaged communities	Residential Sector – Multi-family (RMF)	2016	3,044	609,633
128	SCG	A04	RMF4	P4: HTR	Percent	P4: Penetration of energy efficiency programs in the HTR market	Metric	RMF-P4 Percent of participation by customers defined as “hard-to-reach”	Percent of participation by customers defined as “hard-to-reach”	Residential Sector – Multi-family (RMF)	2016	3,383	687,806
129	SCG	A04	RMF5	B1	Percent	B1: MF Benchmarking Penetration	Metric	RMF-B1 - Percent of benchmarked multi-family properties relative to the eligible population	Percent of benchmarked multi-family properties relative to the eligible population	Residential Sector – Multi-family (RMF)	2016	214	66,852

Spreadsheet Index	PA	AttA Page	AttA Order	Method Code	Units of Measurement	Metric Type	Metric/ Indicator	Business Plan Att A Description	Metric	Sector	Baseline Year	Baseline Numerator	Baseline Denominator
130	SCG	A04	RMF5	B6	Percent	B6: Benchmarking of HTR Properties	Metric	B6(RMF) - Percent of benchmarking by properties defined as "hard-to-reach"	Percent of benchmarking by properties defined as "hard-to-reach"	Residential Sector – Multi-family (RMF)	2016	76	26,222
131	SCG	A04	RMF6	LC	PAC Levelized Cost ($/kW)	Cost per unit saved	Metric	RMF-LC - Levelized cost of energy efficiency per kWh, therm and kW (use both TRC and PAC)	PAC Levelized Cost ($/kW)	Residential Sector – Multi-family (RMF)	2016	N/A	N/A
132	SCG	A04	RMF6	LC	PAC Levelized Cost ($/kWh)	Cost per unit saved	Metric	RMF-LC - Levelized cost of energy efficiency per kWh, therm and kW (use both TRC and PAC)	PAC Levelized Cost ($/kWh)	Residential Sector – Multi-family (RMF)	2016	N/A	N/A
133	SCG	A04	RMF6	LC	PAC Levelized Cost ($/therm)	Cost per unit saved	Metric	RMF-LC - Levelized cost of energy efficiency per kWh, therm and kW (use both TRC and PAC)	PAC Levelized Cost ($/therm)	Residential Sector – Multi-family (RMF)	2016	7,504,969	10,193,093
134	SCG	A04	RMF6	LC	TRC Levelized Cost ($/kW)	Cost per unit saved	Metric	RMF-LC - Levelized cost of energy efficiency per kWh, therm and kW (use both TRC and PAC)	TRC Levelized Cost ($/kW)	Residential Sector – Multi-family (RMF)	2016	N/A	N/A
135	SCG	A04	RMF6	LC	TRC Levelized Cost ($/kWh)	Cost per unit saved	Metric	RMF-LC - Levelized cost of energy efficiency per kWh, therm and kW (use both TRC and PAC)	TRC Levelized Cost ($/kWh)	Residential Sector – Multi-family (RMF)	2016	N/A	N/A
136	SCG	A04	RMF6	LC	TRC Levelized Cost ($/therm)	Cost per unit saved	Metric	RMF-LC - Levelized cost of energy efficiency per kWh, therm and kW (use both TRC and PAC)	TRC Levelized Cost ($/therm)	Residential Sector – Multi-family (RMF)	2016	9,996,130	10,193,093
137	SCG	A04	RMF7i	EI2	KBtu/unit	Energy Intensity per MF unit	Indicator	RMF-E12[Indicator] - and Average energy use intensity of multifamily units. including in-unit accounts)	Average Kbtu per per unit	Residential Sector – Multi-family (RMF)	N/A - Indicator	N/A - Indicator	N/A - Indicator
138	SCG	A04	RMF7i	EI3	KBtu/sqft	Energy Intensity per MF unit square foot	Indicator	RMF-E13[Indicator] Average energy use intensity of multifamily buildings (average usage per square foot – not adjusted	Average KBtu per square foot	Residential Sector – Multi-family (RMF)	N/A - Indicator	N/A - Indicator	N/A - Indicator
139	SCG	A05	C1	S1	First year annual kW gross	S1: Energy Savings	Metric	C-S1 - First year annual and lifecycle ex-ante (pre-evaluation) gas, electric, and demand savings (gross and net)	First year annual kW gross	Commercial Sector (C)	2016	N/A	N/A
140	SCG	A05	C1	S1	First year annual kW net	S1: Energy Savings	Metric	C-S1 - 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)	2016	N/A	N/A
141	SCG	A05	C1	S1	First year annual kWh gross	S1: Energy Savings	Metric	C-S1 - First year annual and lifecycle ex-ante (pre-evaluation) gas, electric, and demand savings (gross and net)	First year annual kWh gross	Commercial Sector (C)	2016	N/A	N/A
142	SCG	A05	C1	S1	First year annual kWh net	S1: Energy Savings	Metric	C-S1 - First year annual and lifecycle ex-ante (pre-evaluation) gas, electric, and demand savings (gross and net)	First year annual kWh net	Commercial Sector (C)	2016	N/A	N/A
143	SCG	A05	C1	S1	First year annual Therm gross	S1: Energy Savings	Metric	C-S1 - 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)	2016	N/A	N/A
144	SCG	A05	C1	S1	First year annual Therm net	S1: Energy Savings	Metric	C-S1 - 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	N/A	N/A
145	SCG	A05	C1	S1	Lifecycle ex-ante kW gross	S1: Energy Savings	Metric	C-S1 - First year annual and lifecycle ex-ante (pre-evaluation) gas, electric, and demand savings (gross and net)	Lifecycle ex-ante kW gross	Commercial Sector (C)	2016	N/A	N/A
146	SCG	A05	C1	S1	Lifecycle ex-ante kW net	S1: Energy Savings	Metric	C-S1 - First year annual and lifecycle ex-ante (pre-evaluation) gas, electric, and demand savings (gross and net)	Lifecycle ex-ante kW net	Commercial Sector (C)	2016	N/A	N/A
147	SCG	A05	C1	S1	Lifecycle ex-ante kWh gross	S1: Energy Savings	Metric	C-S1 - First year annual and lifecycle ex-ante (pre-evaluation) gas, electric, and demand savings (gross and net)	Lifecycle ex-ante kWh gross	Commercial Sector (C)	2016	N/A	N/A
148	SCG	A05	C1	S1	Lifecycle ex-ante kWh net	S1: Energy Savings	Metric	C-S1 - 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)	2016	N/A	N/A
149	SCG	A05	C1	S1	Lifecycle ex-ante Therm gross	S1: Energy Savings	Metric	C-S1 - 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)	2016	N/A	N/A
150	SCG	A05	C1	S1	Lifecycle ex-ante Therm net	S1: Energy Savings	Metric	C-S1 - 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)	2016	N/A	N/A
151	SCG	A05	C1	S2	Percent first year annual kW gross	S2: Percent Overall Sectoral Savings	Metric	C-S2 - 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)	2016	N/A	N/A
152	SCG	A05	C1	S2	Percent first year annual kW net	S2: Percent Overall Sectoral Savings	Metric	C-S2 - 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)	2016	N/A	N/A
153	SCG	A05	C1	S2	Percent first year annual kWh gross	S2: Percent Overall Sectoral Savings	Metric	C-S2 - 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 kWh gross	Commercial Sector (C)	2016	N/A	N/A

Spreadsheet Index	PA	AttA Page	AttA Order	Method Code	Units of Measurement	Metric Type	Metric/ Indicator	Business Plan Att A Description	Metric	Sector	Baseline Year	Baseline Numerator	Baseline Denominator
154	SCG	A05	C1	S2	Percent first year annual kWh net	S2: Percent Overall Sectoral Savings	Metric	C-S2 - 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 kWh net	Commercial Sector (C)	2016	N/A	N/A
155	SCG	A05	C1	S2	Percent first year annual Therm gross	S2: Percent Overall Sectoral Savings	Metric	C-S2 - 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 Therm gross	Commercial Sector (C)	2016	3,552,481	746,694,714
156	SCG	A05	C1	S2	Percent first year annual Therm net	S2: Percent Overall Sectoral Savings	Metric	C-S2 - 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 Therm net	Commercial Sector (C)	2016	2,221,709	746,694,714
157	SCG	A05	C1	S2	Percent lifecycle ex-ante kW gross	S2: Percent Overall Sectoral Savings	Metric	C-S2 - 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 lifecycle ex-ante kW gross	Commercial Sector (C)	2016	N/A	N/A
158	SCG	A05	C1	S2	Percent lifecycle ex-ante kW net	S2: Percent Overall Sectoral Savings	Metric	C-S2 - 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 lifecycle ex-ante kW net	Commercial Sector (C)	2016	N/A	N/A
159	SCG	A05	C1	S2	Percent lifecycle ex-ante kWh gross	S2: Percent Overall Sectoral Savings	Metric	C-S2 - 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 lifecycle ex-ante kWh gross	Commercial Sector (C)	2016	N/A	N/A
160	SCG	A05	C1	S2	Percent lifecycle ex-ante kWh net	S2: Percent Overall Sectoral Savings	Metric	C-S2 - 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 lifecycle ex-ante kWh net	Commercial Sector (C)	2016	N/A	N/A
161	SCG	A05	C1	S2	Percent lifecycle ex-ante Therm gross	S2: Percent Overall Sectoral Savings	Metric	C-S2 - 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 lifecycle ex-ante Therm gross	Commercial Sector (C)	2016	42,882,610	746,694,714
162	SCG	A05	C1	S2	Percent lifecycle ex-ante Therm net	S2: Percent Overall Sectoral Savings	Metric	C-S2 - 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 lifecycle ex-ante Therm net	Commercial Sector (C)	2016	26,867,413	746,694,714
163	SCG	A05	C2	G	MT CO2eq	GHG	Metric	C-GGreenhouse gasses (MT CO2eq) Net kWh savings, reported on an annual basis	CO2-equivalent of net annual therm savings	Commercial Sector (C)	2016	N/A	N/A
164	SCG	A05	C3	D2	Percent lifecycle gross kW	D2: Depth of interventions by project	Metric	Energy savings (gross kWh, therms) as a fraction of total project consumption.	Percent lifecycle gross kW	Commercial Sector (C)	2016	N/A	N/A
165	SCG	A05	C3	D2	Percent lifecycle gross kWh	D2: Depth of interventions by project	Metric	Energy savings (gross kWh, therms) as a fraction of total project consumption.	Percent lifecycle gross kWh	Commercial Sector (C)	2016	N/A	N/A
166	SCG	A05	C3	D2	Percent lifecycle gross Therms	D2: Depth of interventions by project	Metric	Energy savings (gross kWh, therms) as a fraction of total project consumption.	Percent lifecycle gross Therms	Commercial Sector (C)	2016	3,552,481	35,477,951
167	SCG	A05	C4	P1L	Percent	P1: Penetration of energy efficiency programs in the eligible market Percent of Participation	Metric	•C-P1M•Percent of participation relative to eligiblepopulation for small, medium, and large customers	Percent of participation relative to eligible population for large customers	Commercial Sector (C)	2016	79	1,344
168	SCG	A05	C4	P1M	Percent	P1: Penetration of energy efficiency programs in the eligible market Percent of Participation	Metric	•C-P1M•Percent of participation relative to eligiblepopulation for small, medium, and large customers	Percent of participation relative to eligible population for medium customers	Commercial Sector (C)	2016	590	14,320
169	SCG	A05	C4	P1S	Percent	P1: Penetration of energy efficiency programs in the eligible market Percent of Participation	Metric	•C-P1LPercent of participation relative to eligiblepopulation for small, medium, and large customers	Percent of participation relative to eligible population for small customers	Commercial Sector (C)	2016	1,161	167,582
170	SCG	A05	C4	P2	Percent	P2: Penetration of energy efficiency programs in terms of **square feet of eligible population**	Metric	C-P2 - Percent of square feet of eligible population	Percent of square feet of eligible population	Commercial Sector (C)	2016	10,915,011	1,082,940,175

Spreadsheet Index	PA	AttA Page	AttA Order	Method Code	Units of Measurement	Metric Type	Metric/ Indicator	Business Plan Att A Description	Metric	Sector	Baseline Year	Baseline Numerator	Baseline Denominator
171	SCG	A05	C4	P4	Percent	P4: Penetration of energy efficiency programs in the HTR market	Metric	C-P4- Percent of participation by customers defined as "hard-to-reach"	Percent of participation by customers defined as "hard-to-reach"	Commercial Sector (C)	2016	63	82,999
172	SCG	A05	C5	B2	Percent	Square Footage of Commercial **Benchmarking** Penetration	Metric	C-B2 - Percent of benchmarked square feet of eligible population	Percent of benchmarked square feet of eligible population	Commercial Sector (C)	2016	3,331,699	1,082,940,175
173	SCG	A05	C5	B5L	Percent	**Benchmarking** Penetration for Commercial Sector	Metric	B5(C)L Percent of benchmarked customers relative to eligible population for large customers	Percent of benchmarked customers relative to eligible population for **large** customers	Commercial Sector (C)	2016	24	1,344
174	SCG	A05	C5	B5M	Percent	**Benchmarking** Penetration for Commercial Sector	Metric	B5(C)M 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	116	14,320
175	SCG	A05	C5	B5S	Percent	**Benchmarking** Penetration for Commercial Sector	Metric	B5(C)SPercent 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	336	167,582
176	SCG	A05	C5	B6	Percent	B6: **Benchmarking** of HTR Properties	Metric	B6(C) - Percent of benchmarking by customers defined as "hard-to-reach"	Percent of benchmarking by customers defined as "hard-to-reach"	Commercial Sector (C)	2016	17	167,582
177	SCG	A05	C6	LC	PAC Levelized Cost ($/kW)	Cost per unit saved	Metric	C-LC - Levelized cost of energy efficiency per kWh, therm and kW (use both TRC and PAC)	PAC Levelized Cost ($/kW)	Commercial Sector (C)	2016	N/A	N/A
178	SCG	A05	C6	LC	PAC Levelized Cost ($/kWh)	Cost per unit saved	Metric	C-LC - Levelized cost of energy efficiency per kWh, therm and kW (use both TRC and PAC)	PAC Levelized Cost ($/kWh)	Commercial Sector (C)	2016	N/A	N/A
179	SCG	A05	C6	LC	PAC Levelized Cost ($/therm)	Cost per unit saved	Metric	C-LC - Levelized cost of energy efficiency per kWh, therm and kW (use both TRC and PAC)	PAC Levelized Cost ($/therm)	Commercial Sector (C)	2016	13,367,249	26,867,413
180	SCG	A05	C6	LC	TRC Levelized Cost ($/kW)	Cost per unit saved	Metric	C-LC - Levelized cost of energy efficiency per kWh, therm and kW (use both TRC and PAC)	TRC Levelized Cost ($/kW)	Commercial Sector (C)	2016	N/A	N/A
181	SCG	A05	C6	LC	TRC Levelized Cost ($/kWh)	Cost per unit saved	Metric	C-LC - Levelized cost of energy efficiency per kWh, therm and kW (use both TRC and PAC)	TRC Levelized Cost ($/kWh)	Commercial Sector (C)	2016	N/A	N/A
182	SCG	A05	C6	LC	TRC Levelized Cost ($/therm)	Cost per unit saved	Metric	C-LC - Levelized cost of energy efficiency per kWh, therm and kW (use both TRC and PAC)	TRC Levelized Cost ($/therm)	Commercial Sector (C)	2016	16,494,696	26,867,413
183	SCG	A06	C7i	N1	Percent	NMEC	Indicator	C-N1[Indicator] Fraction of total projects utilizing Normalized Metered Energy Consumption (NMEC) to estimate savings	Percent of total projects utilizing Normalized Metered Energy Consumption (NMEC) to estimate savings	Commercial Sector (C)	N/A - Indicator	N/A - Indicator	N/A - Indicator
184	SCG	A06	C7i	N2	Percent	NMEC	Indicator	C-N2[Indicator] Fraction of total savings (gross kWh and therm) derived from NMEC analysis	Percent of total savings (gross kWh and therm) derived from NMEC analysis	Commercial Sector (C)	N/A - Indicator	N/A - Indicator	N/A - Indicator
185	SCG	A06	C8i	CS	Percent	Satisfaction	Indicator	C-CS[Indicator] Improvement in customer satisfaction	Percent Improvement in customer satisfaction	Commercial Sector (C)	N/A - Indicator	N/A - Indicator	N/A - Indicator
186	SCG	A06	C8i	TS	Percent	Satisfaction	Indicator	C-TS[Indicator] Improvement in trade ally satisfaction	Percent Improvement in trade ally satisfaction	Commercial Sector (C)	N/A - Indicator	N/A - Indicator	N/A - Indicator
187	SCG	A06	C9i	F1	Percent	Investment in energy efficiency	Indicator	C-F - [Indicator] Fraction of total investments made by ratepayers and private capital	Percent of total investments made by ratepayers and private capital	Commercial Sector (C)	N/A - Indicator	N/A - Indicator	N/A - Indicator
188	SCG	A06	P1	S1	First year annual kW gross	S1: Energy Savings	Metric	P-S1 - First year annual and lifecycle ex-ante (pre-evaluation) gas, electric, and demand savings (gross and net) across Public Sector programs	First year annual kW gross	Public Sector (P)	2016	N/A	N/A
189	SCG	A06	P1	S1	First year annual kW net	S1: Energy Savings	Metric	P-S1 - First year annual and lifecycle ex-ante (pre-evaluation) gas, electric, and demand savings (gross and net) across Public Sector programs	First year annual kW net	Public Sector (P)	2016	N/A	N/A
190	SCG	A06	P1	S1	First year annual kWh gross	S1: Energy Savings	Metric	P-S1 - 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 (P)	2016	N/A	N/A

Spreadsheet Index	PA	AttA Page	AttA Order	Method Code	Units of Measurement	Metric Type	Metric/ Indicator	Business Plan Att A Description	Metric	Sector	Baseline Year	Baseline Numerator	Baseline Denominator
191	SCG	A06	P1	S1	First year annual kWh net	S1: Energy Savings	Metric	P-S1 - 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 (P)	2016	N/A	N/A
192	SCG	A06	P1	S1	First year annual Therm gross	S1: Energy Savings	Metric	P-S1 - First year annual and lifecycle ex-ante (pre-evaluation) gas, electric, and demand savings (gross and net) across Public Sector programs	First year annual Therm gross	Public Sector (P)	2016	N/A	N/A
193	SCG	A06	P1	S1	First year annual Therm net	S1: Energy Savings	Metric	P-S1 - First year annual and lifecycle ex-ante (pre-evaluation) gas, electric, and demand savings (gross and net) across Public Sector programs	First year annual Therm net	Public Sector (P)	2016	N/A	N/A
194	SCG	A06	P1	S1	Lifecycle ex-ante kW gross	S1: Energy Savings	Metric	P-S1 - First year annual and lifecycle ex-ante (pre-evaluation) gas, electric, and demand savings (gross and net) across Public Sector programs	Lifecycle ex-ante kW gross	Public Sector (P)	2016	N/A	N/A
195	SCG	A06	P1	S1	Lifecycle ex-ante kW net	S1: Energy Savings	Metric	P-S1 - First year annual and lifecycle ex-ante (pre-evaluation) gas, electric, and demand savings (gross and net) across Public Sector programs	Lifecycle ex-ante kW net	Public Sector (P)	2016	N/A	N/A
196	SCG	A06	P1	S1	Lifecycle ex-ante kWh gross	S1: Energy Savings	Metric	P-S1 - First year annual and lifecycle ex-ante (pre-evaluation) gas, electric, and demand savings (gross and net) across Public Sector programs	Lifecycle ex-ante kWh gross	Public Sector (P)	2016	N/A	N/A
197	SCG	A06	P1	S1	Lifecycle ex-ante kWh net	S1: Energy Savings	Metric	P-S1 - First year annual and lifecycle ex-ante (pre-evaluation) gas, electric, and demand savings (gross and net) across Public Sector programs	Lifecycle ex-ante kWh net	Public Sector (P)	2016	N/A	N/A
198	SCG	A06	P1	S1	Lifecycle ex-ante Therm gross	S1: Energy Savings	Metric	P-S1 - First year annual and lifecycle ex-ante (pre-evaluation) gas, electric, and demand savings (gross and net) across Public Sector programs	Lifecycle ex-ante Therm gross	Public Sector (P)	2016	N/A	N/A
199	SCG	A06	P1	S1	Lifecycle ex-ante Therm net	S1: Energy Savings	Metric	P-S1 - First year annual and lifecycle ex-ante (pre-evaluation) gas, electric, and demand savings (gross and net) across Public Sector programs	Lifecycle ex-ante Therm net	Public Sector (P)	2016	N/A	N/A
200	SCG	A06	P2	G	MT CO2eq	GHG	Metric	P-GGreenhouse gasses (MT CO2eq) based on net lifecycle kWh and Therms savings, reported on an annual basis, incorporating average fuel/technology mix	CO2-equivalent of net annual therm savings	Public Sector (P)	2016	N/A	N/A
201	SCG	A06	P3i	D3b	Percent annual NET kW	D3: Depth of interventions per building	Indicator	P-D3[Indicator] Average percent energy savings (kWh, kw, therms) per project building or facility	Percent annual net kW per project building or facility	Public Sector (P)	N/A - Indicator	N/A - Indicator	N/A - Indicator
202	SCG	A06	P3i	D3b	Percent annual NET kWh	D3: Depth of interventions per building	Indicator	P-D3[Indicator] Average percent energy savings (kWh, kw, therms) 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
203	SCG	A06	P3i	D3b	Percent annual NET Therms	D3: Depth of interventions per building	Indicator	P-D3[Indicator] Average percent energy savings (kWh, kw, therms) per project building or facility	Percent annual net Therms per project building or facility	Public Sector (P)	N/A - Indicator	N/A - Indicator	N/A - Indicator
204	SCG	A06	P3i	D5	Annual NET kW	D5: Depth of interventions Per square foot	Indicator	P-D5[Indicator] Average annual energy savings (kWh, kw, therms) per project 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
205	SCG	A06	P3i	D5	Annual NET kWh	D5: Depth of interventions Per square foot	Indicator	P-D5[Indicator] Average annual energy savings (kWh, kw, therms) per project 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
206	SCG	A06	P3i	D5	Annual NET Therms	D5: Depth of interventions Per square foot	Indicator	P-D5[Indicator] Average annual energy savings (kWh, kw, therms) per project building floor plan area	Average annual net Therm savings per project building floor plan area	Public Sector (P)	N/A - Indicator	N/A - Indicator	N/A - Indicator
207	SCG	A06	P3i	W1	Annual NET kW	Water	Indicator	P-W1[Indicator] Average annual energy savings (kWh, kW therms) per annual flow through project water/wastewater facilities	Average annual Net kW savings per annual flow through project water/wastewater facilities	Public Sector (P)	N/A - Indicator	N/A - Indicator	N/A - Indicator
208	SCG	A06	P3i	W1	Annual NET kWh	Water	Indicator	P-W1[Indicator] Average annual energy savings (kWh, kW therms) per annual flow through project water/wastewater facilities	Average annual Net kWh savings per annual flow through project water/wastewater facilities	Public Sector (P)	N/A - Indicator	N/A - Indicator	N/A - Indicator
209	SCG	A06	P3i	W1	Annual NET Therms	Water	Indicator	P-W1[Indicator] Average annual energy savings (kWh, kW therms) per annual flow through project water/wastewater facilities	Average annual Net Therms savings per annual flow through project water/wastewater facilities	Public Sector (P)	N/A - Indicator	N/A - Indicator	N/A - Indicator
210	SCG	A07	P4	P1	Percent	P1: Penetration of energy efficiency programs in the eligible market Percent of Participation	Metric	P-P1 - Percent of Public Sector accounts participating in programs	Percent of Public Sector accounts participating in programs	Public Sector (P)	2016	272	13,338

Spreadsheet Index	PA	AttA Page	AttA Order	Method Code	Units of Measurement	Metric Type	Metric/ Indicator	Business Plan Att A Description	Metric	Sector	Baseline Year	Baseline Numerator	Baseline Denominator
211	SCG	A07	P4i	P2	Percent	P2: Penetration of energy efficiency programs in terms of **square feet of eligible population**	Indicator	P-P2[Indicator] Percent of estimated floorplan area (i.e., ft2) of all Public Sector buildings participating in building projects—estimate within +/-15% of sector-wide building area, +/-5% of project building area	Percent of estimated floorplan area (i.e., ft2) of all Public Sector buildings participating in building projects	Public Sector (P)	N/A - Indicator	N/A - Indicator	N/A - Indicator
212	SCG	A07	P4i	W2	Percent	Water	Indicator	P-W2[Indicator] Percent of Public Sector water/wastewater flow (i.e., annual average Million Gallons per Day) enrolled in non-building water/wastewater programs— estimate within +/-20% of flow through eligible facilities (treatment facilities pumping stations), +/-10% of flow through project facilities	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
213	SCG	A07	P5	LC	PAC Levelized Cost ($/kW)	Cost per unit saved	Metric	P-LC - Levelized cost of energy efficiency per kWh, therm and kW (use both TRC and PAC)	PAC Levelized Cost ($/kW)	Public Sector (P)	2016	N/A	N/A
214	SCG	A07	P5	LC	PAC Levelized Cost ($/kWh)	Cost per unit saved	Metric	P-LC - Levelized cost of energy efficiency per kWh, therm and kW (use both TRC and PAC)	PAC Levelized Cost ($/kWh)	Public Sector (P)	2016	N/A	N/A
215	SCG	A07	P5	LC	PAC Levelized Cost ($/therm)	Cost per unit saved	Metric	P-LC - Levelized cost of energy efficiency per kWh, therm and kW (use both TRC and PAC)	PAC Levelized Cost ($/therm)	Public Sector (P)	2016	3,211,173	5,425,342
216	SCG	A07	P5	LC	TRC Levelized Cost ($/kW)	Cost per unit saved	Metric	P-LC - Levelized cost of energy efficiency per kWh, therm and kW (use both TRC and PAC)	TRC Levelized Cost ($/kW)	Public Sector (P)	2016	N/A	N/A
217	SCG	A07	P5	LC	TRC Levelized Cost ($/kWh)	Cost per unit saved	Metric	P-LC - Levelized cost of energy efficiency per kWh, therm and kW (use both TRC and PAC)	TRC Levelized Cost ($/kWh)	Public Sector (P)	2016	N/A	N/A
218	SCG	A07	P5	LC	TRC Levelized Cost ($/therm)	Cost per unit saved	Metric	P-LC - Levelized cost of energy efficiency per kWh, therm and kW (use both TRC and PAC)	TRC Levelized Cost ($/therm)	Public Sector (P)	2016	4,358,165	5,425,342
219	SCG	A07	P6i	F2	$	Investment in EE	Indicator	P-F2 - [Indicator] Total program-backed financing distributed to Public Sector customers requiring repayment (i.e., loans, OBF)	Total program-backed financing distributed to Public Sector customers requiring repayment	Public Sector (P)	N/A - Indicator	N/A - Indicator	N/A - Indicator
220	SCG	A07	P7	B3	Percent	Public Sector Benchmarking Penetration Calendar Year	Metric	P-B3 - Percent of Public Sector buildings with current benchmark	Percent of Public Sector buildings with current benchmark	Public Sector (P)	2016	451	13,338
221	SCG	A07	P7	EI4	KBtu/Sqft	Energy Intensity per public sector building	Metric	P-E14 Average energy use intensity of all Public Sector buildings	Average energy use intensity of all Public Sector buildings	Public Sector (P)	2016	15,034,684,500	141,729,588
222	SCG	A07	P7i	B4	Percent	Public Sector Square Foot Benchmarking Penetration in Calendar Year	Indicator	B4-P[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
223	SCG	A08	In1	S1	First year annual kW gross	S1: Energy Savings	Metric	In-S1- First year annualized and lifecycle ex-ante (pre-evaluation) gas, electric, and demand savings (gross and net) in industrial sector	First year annual kW gross	Industrial (I)	2016	N/A	N/A
224	SCG	A08	In1	S1	First year annual kW net	S1: Energy Savings	Metric	In-S1- 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	N/A	N/A
225	SCG	A08	In1	S1	First year annual kWh gross	S1: Energy Savings	Metric	In-S1- 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	N/A	N/A
226	SCG	A08	In1	S1	First year annual kWh net	S1: Energy Savings	Metric	In-S1- 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	N/A	N/A
227	SCG	A08	In1	S1	First year annual Therm gross	S1: Energy Savings	Metric	In-S1- First year annualized and lifecycle ex-ante (pre-evaluation) gas, electric, and demand savings (gross and net) in industrial sector	First year annual Therm gross	Industrial (I)	2016	N/A	N/A
228	SCG	A08	In1	S1	First year annual Therm net	S1: Energy Savings	Metric	In-S1- First year annualized and lifecycle ex-ante (pre-evaluation) gas, electric, and demand savings (gross and net) in industrial sector	First year annual Therm net	Industrial (I)	2016	N/A	N/A
229	SCG	A08	In1	S1	Lifecycle ex-ante kW gross	S1: Energy Savings	Metric	In-S1- First year annualized and lifecycle ex-ante (pre-evaluation) gas, electric, and demand savings (gross and net) in industrial sector	Lifecycle ex-ante kW gross	Industrial (I)	2016	N/A	N/A
230	SCG	A08	In1	S1	Lifecycle ex-ante kW net	S1: Energy Savings	Metric	In-S1- First year annualized and lifecycle ex-ante (pre-evaluation) gas, electric, and demand savings (gross and net) in industrial sector	Lifecycle ex-ante kW net	Industrial (I)	2016	N/A	N/A
231	SCG	A08	In1	S1	Lifecycle ex-ante kWh gross	S1: Energy Savings	Metric	In-S1- First year annualized and lifecycle ex-ante (pre-evaluation) gas, electric, and demand savings (gross and net) in industrial sector	Lifecycle ex-ante kWh gross	Industrial (I)	2016	N/A	N/A

Spreadsheet Index	PA	AttA Page	AttA Order	Method Code	Units of Measurement	Metric Type	Metric/ Indicator	Business Plan Att A Description	Metric	Sector	Baseline Year	Baseline Numerator	Baseline Denominator
232	SCG	A08	In1	S1	Lifecycle ex-ante kWh net	S1: Energy Savings	Metric	In-S1- First year annualized and lifecycle ex-ante (pre-evaluation) gas, electric, and demand savings (gross and net) in industrial sector	Lifecycle ex-ante kWh net	Industrial (I)	2016	N/A	N/A
233	SCG	A08	In1	S1	Lifecycle ex-ante Therm gross	S1: Energy Savings	Metric	In-S1- 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	N/A
234	SCG	A08	In1	S1	Lifecycle ex-ante Therm net	S1: Energy Savings	Metric	In-S1- 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	N/A
235	SCG	A08	In2	G	MT CO2eq	GHG	Metric	I-G- Greenhouse gasses (MT CO2eq) Net kWh savings, reported on an annual basis	CO2-equivalent of net annual kWh savings	Industrial (I)	2016	N/A	N/A
236	SCG	A08	In3	P1L	Percent	P1: Penetration of energy efficiency programs in the eligible market Percent of Participation	Metric	•In-P1LPercent of participation relative to eligible population for small, medium and large customers	Percent of participation relative to eligible population for small customers	Industrial (I)	2016	19	14,827
237	SCG	A08	In3	P1M	Percent	P1: Penetration of energy efficiency programs in the eligible market Percent of Participation	Metric	In-P1MPercent of participation relative to eligible population for small, medium and large customers	Percent of participation relative to eligible population for medium customers	Industrial (I)	2016	12	1,182
238	SCG	A08	In3	P1S	Percent	P1: Penetration of energy efficiency programs in the eligible market Percent of Participation	Metric	In-P1SIn-P1MIn-P1LPercent 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	54	1,186
239	SCG	A08	In4i	P5L	Percent	New participation	Indicator	I-P5[Indicator] Percent of customers participating that have not received an incentive for the past three years, annually, by small, medium and large customer categories	Percent of large customers participating in reporting year that have not received an incentive for the past three years	Industrial (I)	N/A - Indicator	N/A - Indicator	N/A - Indicator
240	SCG	A08	In4i	P5M	Percent	New participation	Indicator	I-P5[Indicator] Percent of customers participating that have not received an incentive for the past three years, annually, by small, medium and large customer categories	Percent of medium customers participating in reporting year that have not received an incentive for the past three years	Industrial (I)	N/A - Indicator	N/A - Indicator	N/A - Indicator
241	SCG	A08	In4i	P5S	Percent	New participation	Indicator	I-P5[Indicator] Percent of customers participating that have not received an incentive for the past three years, annually, by small, medium and large customer categories	Percent of small customers participating in reporting year that have not received an incentive for the past three years	Industrial (I)	N/A - Indicator	N/A - Indicator	N/A - Indicator
242	SCG	A08	In5	LC	PAC Levelized Cost ($/kW)	Cost per unit saved	Metric	I-LC - Levelized cost of energy efficiency per kWh, therm and KW (use both TRC and PAC)	PAC Levelized Cost ($/kW)	Industrial (I)	2016	N/A	N/A
243	SCG	A08	In5	LC	PAC Levelized Cost ($/kWh)	Cost per unit saved	Metric	I-LC - Levelized cost of energy efficiency per kWh, therm and KW (use both TRC and PAC)	PAC Levelized Cost ($/kWh)	Industrial (I)	2016	N/A	N/A
244	SCG	A08	In5	LC	PAC Levelized Cost ($/therm)	Cost per unit saved	Metric	I-LC - Levelized cost of energy efficiency per kWh, therm and KW (use both TRC and PAC)	PAC Levelized Cost ($/therm)	Industrial (I)	2016	6,496,364	23,612,963
245	SCG	A08	In5	LC	TRC Levelized Cost ($/kW)	Cost per unit saved	Metric	I-LC - Levelized cost of energy efficiency per kWh, therm and KW (use both TRC and PAC)	TRC Levelized Cost ($/kW)	Industrial (I)	2016	N/A	N/A
246	SCG	A08	In5	LC	TRC Levelized Cost ($/kWh)	Cost per unit saved	Metric	I-LC - Levelized cost of energy efficiency per kWh, therm and KW (use both TRC and PAC)	TRC Levelized Cost ($/kWh)	Industrial (I)	2016	N/A	N/A
247	SCG	A08	In5	LC	TRC Levelized Cost ($/therm)	Cost per unit saved	Metric	I-LC - Levelized cost of energy efficiency per kWh, therm and KW (use both TRC and PAC)	TRC Levelized Cost ($/therm)	Industrial (I)	2016	9,970,136	23,612,963
248	SCG	A08	In6	S2	Percent first year annual kW gross	S2: Percent Overall Sectoral Savings	Metric	I-RC - Reduction in consumption (proposed by SCE and SDG&E)	Percent first year annual kW gross	Industrial (I)	2016	N/A	N/A
249	SCG	A08	In6	S2	Percent first year annual kW net	S2: Percent Overall Sectoral Savings	Metric	I-RC - Reduction in consumption (proposed by SCE and SDG&E)	Percent first year annual kW net	Industrial (I)	2016	N/A	N/A
250	SCG	A08	In6	S2	Percent first year annual kWh gross	S2: Percent Overall Sectoral Savings	Metric	I-RC - Reduction in consumption (proposed by SCE and SDG&E)	Percent first year annual kWh gross	Industrial (I)	2016	N/A	N/A

Spreadsheet Index	PA	AttA Page	AttA Order	Method Code	Units of Measurement	Metric Type	Metric/ Indicator	Business Plan Att A Description	Metric	Sector	Baseline Year	Baseline Numerator	Baseline Denominator
251	SCG	A08	In6	S2	Percent first year annual kWh net	S2: Percent Overall Sectoral Savings	Metric	I-RC - Reduction in consumption (proposed by SCE and SDG&E)	Percent first year annual kWh net	Industrial (I)	2016	N/A	N/A
252	SCG	A08	In6	S2	Percent first year annual Therm gross	S2: Percent Overall Sectoral Savings	Metric	I-RC - Reduction in consumption (proposed by SCE and SDG&E)	Percent first year annual Therm gross	Industrial (I)	2016	4,579,095	712,174,240
253	SCG	A08	In6	S2	Percent first year annual Therm net	S2: Percent Overall Sectoral Savings	Metric	I-RC - Reduction in consumption (proposed by SCE and SDG&E)	Percent first year annual Therm net	Industrial (I)	2016	23,612,963	712,174,240
254	SCG	A08	In6	S2	Percent lifecycle ex-ante kW gross	S2: Percent Overall Sectoral Savings	Metric	I-RC - Reduction in consumption (proposed by SCE and SDG&E)	Percent lifecycle ex-ante kW gross	Industrial (I)	2016	N/A	N/A
255	SCG	A08	In6	S2	Percent lifecycle ex-ante kW net	S2: Percent Overall Sectoral Savings	Metric	I-RC - Reduction in consumption (proposed by SCE and SDG&E)	Percent lifecycle ex-ante kW net	Industrial (I)	2016	N/A	N/A
256	SCG	A08	In6	S2	Percent lifecycle ex-ante kWh gross	S2: Percent Overall Sectoral Savings	Metric	I-RC - Reduction in consumption (proposed by SCE and SDG&E)	Percent lifecycle ex-ante kWh gross	Industrial (I)	2016	N/A	N/A
257	SCG	A08	In6	S2	Percent lifecycle ex-ante kWh net	S2: Percent Overall Sectoral Savings	Metric	I-RC - Reduction in consumption (proposed by SCE and SDG&E)	Percent lifecycle ex-ante kWh net	Industrial (I)	2016	N/A	N/A
258	SCG	A08	In6	S2	Percent lifecycle ex-ante Therm gross	S2: Percent Overall Sectoral Savings	Metric	I-RC - Reduction in consumption (proposed by SCE and SDG&E)	Percent lifecycle ex-ante Therm gross	Industrial (I)	2016	42,317,801	712,174,240
259	SCG	A08	In6	S2	Percent lifecycle ex-ante Therm net	S2: Percent Overall Sectoral Savings	Metric	I-RC - Reduction in consumption (proposed by SCE and SDG&E)	Percent lifecycle ex-ante Therm net	Industrial (I)	2016	23,612,963	712,174,240
260	SCG	A09	A1	S1	First year annual kW gross	S1: Energy Savings	Metric	Ag-S1 - First year and lifecycle ex ante (pre-evaluation) annualized gas, electric, and demand savings in agriculture sector, gross and net	First year annual kW gross	Agricultural (A)	2016	N/A	N/A
261	SCG	A09	A1	S1	First year annual kW net	S1: Energy Savings	Metric	Ag-S1 - First year and lifecycle ex ante (pre-evaluation) annualized gas, electric, and demand savings in agriculture sector, gross and net	First year annual kW net	Agricultural (A)	2016	N/A	N/A
262	SCG	A09	A1	S1	First year annual kWh gross	S1: Energy Savings	Metric	Ag-S1 - First year and lifecycle ex ante (pre-evaluation) annualized gas, electric, and demand savings in agriculture sector, gross and net	First year annual kWh gross	Agricultural (A)	2016	N/A	N/A
263	SCG	A09	A1	S1	First year annual kWh net	S1: Energy Savings	Metric	Ag-S1 - First year and lifecycle ex ante (pre-evaluation) annualized gas, electric, and demand savings in agriculture sector, gross and net	First year annual kWh net	Agricultural (A)	2016	N/A	N/A
264	SCG	A09	A1	S1	First year annual Therm gross	S1: Energy Savings	Metric	Ag-S1 - First year and lifecycle ex ante (pre-evaluation) annualized gas, electric, and demand savings in agriculture sector, gross and net	First year annual Therm gross	Agricultural (A)	2016	N/A	N/A
265	SCG	A09	A1	S1	First year annual Therm net	S1: Energy Savings	Metric	Ag-S1 - First year and lifecycle ex ante (pre-evaluation) annualized gas, electric, and demand savings in agriculture sector, gross and net	First year annual Therm net	Agricultural (A)	2016	N/A	N/A
266	SCG	A09	A1	S1	Lifecycle ex-ante kW gross	S1: Energy Savings	Metric	Ag-S1 - First year and lifecycle ex ante (pre-evaluation) annualized gas, electric, and demand savings in agriculture sector, gross and net	Lifecycle ex-ante kW gross	Agricultural (A)	2016	N/A	N/A
267	SCG	A09	A1	S1	Lifecycle ex-ante kW net	S1: Energy Savings	Metric	Ag-S1 - First year and lifecycle ex ante (pre-evaluation) annualized gas, electric, and demand savings in agriculture sector, gross and net	Lifecycle ex-ante kW net	Agricultural (A)	2016	N/A	N/A
268	SCG	A09	A1	S1	Lifecycle ex-ante kWh gross	S1: Energy Savings	Metric	Ag-S1 - First year and lifecycle ex ante (pre-evaluation) annualized gas, electric, and demand savings in agriculture sector, gross and net	Lifecycle ex-ante kWh gross	Agricultural (A)	2016	N/A	N/A
269	SCG	A09	A1	S1	Lifecycle ex-ante kWh net	S1: Energy Savings	Metric	Ag-S1 - First year and lifecycle ex ante (pre-evaluation) annualized gas, electric, and demand savings in agriculture sector, gross and net	Lifecycle ex-ante kWh net	Agricultural (A)	2016	N/A	N/A
270	SCG	A09	A1	S1	Lifecycle ex-ante Therm gross	S1: Energy Savings	Metric	Ag-S1 - First year and lifecycle ex ante (pre-evaluation) annualized gas, electric, and demand savings in agriculture sector, gross and net	Lifecycle ex-ante Therm gross	Agricultural (A)	2016	N/A	N/A
271	SCG	A09	A1	S1	Lifecycle ex-ante Therm net	S1: Energy Savings	Metric	Ag-S1 - First year and lifecycle ex ante (pre-evaluation) annualized gas, electric, and demand savings in agriculture sector, gross and net	Lifecycle ex-ante Therm net	Agricultural (A)	2016	N/A	N/A
272	SCG	A09	A2	G	MT CO2eq	GHG	Metric	A-G - Greenhouse gasses (MT CO2eq) Net kWh savings, reported on an annual basis	CO2-equivalent of net annual kWh savings	Agricultural (A)	2016	N/A	N/A

Spreadsheet Index	PA	AttA Page	AttA Order	Method Code	Units of Measurement	Metric Type	Metric/ Indicator	Business Plan Att A Description	Metric	Sector	Baseline Year	Baseline Numerator	Baseline Denominator
273	SCG	A09	A3	P1: Particpants	Percent	P1: Penetration of energy efficiency programs in the eligible market Percent of Participation	Metric	Ag-P1SPercent of participation relative to eligible population for small, medium and large customers	Percent of participation relative to eligible population for **large** customers	Agricultural (A)	2016	14	275
274	SCG	A09	A3	P1: Particpants	Percent	P1: Penetration of energy efficiency programs in the eligible market Percent of Participation	Metric	Ag-P1M•Percent of participation relative to eligible population for small, medium and large customers	Percent of participation relative to eligible population for **medium** customers	Agricultural (A)	2016	6	498
275	SCG	A09	A3	P1: Particpants	Percent	P1: Penetration of energy efficiency programs in the eligible market Percent of Participation	Metric	Ag-P1LPercent of participation relative to eligible population for small, medium and large customers	Percent of participation relative to eligible population for **small** customers	Agricultural (A)	2016	0	1,198
276	SCG	A09	A4	LC	PAC Levelized Cost ($/kW)	Cost per unit saved	Metric	A-LC - Levelized cost of energy efficiency per kWh, therm and kW (use both TRC and PAC)	PAC Levelized Cost ($/kW)	Agricultural (A)	2016	N/A	N/A
277	SCG	A09	A4	LC	PAC Levelized Cost ($/kWh)	Cost per unit saved	Metric	A-LC - Levelized cost of energy efficiency per kWh, therm and kW (use both TRC and PAC)	PAC Levelized Cost ($/kWh)	Agricultural (A)	2016	N/A	N/A
278	SCG	A09	A4	LC	PAC Levelized Cost ($/therm)	Cost per unit saved	Metric	A-LC - Levelized cost of energy efficiency per kWh, therm and kW (use both TRC and PAC)	PAC Levelized Cost ($/therm)	Agricultural (A)	2016	664,577	2,091,128
279	SCG	A09	A4	LC	TRC Levelized Cost ($/kW)	Cost per unit saved	Metric	A-LC - Levelized cost of energy efficiency per kWh, therm and kW (use both TRC and PAC)	TRC Levelized Cost ($/kW)	Agricultural (A)	2016	N/A	N/A
280	SCG	A09	A4	LC	TRC Levelized Cost ($/kWh)	Cost per unit saved	Metric	A-LC - Levelized cost of energy efficiency per kWh, therm and kW (use both TRC and PAC)	TRC Levelized Cost ($/kWh)	Agricultural (A)	2016	N/A	N/A
281	SCG	A09	A4	LC	TRC Levelized Cost ($/therm)	Cost per unit saved	Metric	A-LC - Levelized cost of energy efficiency per kWh, therm and kW (use both TRC and PAC)	TRC Levelized Cost ($/therm)	Agricultural (A)	2016	925,993	2,091,128
282	SCG	A10	CS1	S1	Net GWh	S1: Energy Savings	Metric	Net Energy Savings: GWH, M Therms and MW (demand)	Net GWh savings	Codes & Standards (CS)	2016	N/A	N/A
283	SCG	A10	CS1	S1	Net MMTherms	S1: Energy Savings	Metric	Net Energy Savings: GWH, M Therms and MW (demand)	Net MMTherms savings	Codes & Standards (CS)	2016	N/A	N/A
284	SCG	A10	CS1	S1	Net MW	S1: Energy Savings	Metric	Net Energy Savings: GWH, M Therms and MW (demand)	Net MW savings	Codes & Standards (CS)	2016	N/A	N/A
285	SCG	A10	CS2	1	Count	Advocacy-Building	Metric	Number of measures supported by CASE studies in rulemaking cycle (current work)	Number of measures supported by CASE studies in rulemaking cycle (current work)	Codes & Standards (CS)	2016	N/A	N/A
286	SCG	A10	CS2	2	Count	Advocacy-Building	Metric	Number of measures adopted by CEC in rulemaking cycle (indicator of past work)	Number of measures adopted by CEC in rulemaking cycle (indicator of past work)	Codes & Standards (CS)	2016	N/A	N/A
287	SCG	A10	CS3	1	Count	Advocacy-Appliance	Metric	Number of T-20 measures supported by CASE studies in rulemaking cycle (current work)	Number of T-20 measures supported by CASE studies in rulemaking cycle (current work)	Codes & Standards (CS)	2017	N/A	N/A
288	SCG	A10	CS3	2	Count	Advocacy-Appliance	Metric	Number of measures adopted by CEC in current year	Number of measures adopted by CEC in current year	Codes & Standards (CS)	2016	N/A	N/A
289	SCG	A10	CS4	1	Count	Advocacy-Federal	Metric	Number of federal standards adopted for which a utility advocated (IOUs to list advocated activites)	Number of federal standards adopted for which a utility advocated (IOUs to list advocated activites)	Codes & Standards (CS)	2016	N/A	N/A
290	SCG	A10	CS4	2	Count	Advocacy-Federal	Metric	Percent of federal standards adopted for which a utility advocated (#IOU supported / # DOE adopted)	Percent of federal standards adopted for which a utility advocated (#IOU supported / # DOE adopted)	Codes & Standards (CS)	2016	N/A	N/A
291	SCG	A10	CS5	1	Count	Reach Codes	Metric	**SoCalGas-Only:** The number of local government Reach Codes implemented (this is a joint IOU and REN effort)	The number of local government Reach Codes implemented (this is a joint IOU and REN effort)	Codes & Standards (CS)	2016	N/A	N/A
292	SCG	A11	CS6	1	Count	Compliance Improvement	Metric	**SoCalGas-Only:** Number of training activities (classes, webinars) held, number of market actors participants by segment (e.g. building officials, builders, architects, etc.) and the 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 actors participants by segment (e.g. building officials, builders, architects, etc.) and the the total size (number of the target audience) by sector. (M) Number of training activities	Codes & Standards (CS)	2017	N/A	N/A

Spreadsheet Index	PA	AttA Page	AttA Order	Method Code	Units of Measurement	Metric Type	Metric/ Indicator	Business Plan Att A Description	Metric	Sector	Baseline Year	Baseline Numerator	Baseline Denominator
293	SCG	A11	CS6	2	Count	Compliance Improvement	Metric	**SoCalGas-Only:** Number of training activities (classes, webinars) held, number of market actors participants by segment (e.g. building officials, builders, architects, etc.) and the the total size (number of the target audience) by sector. (M) Number of participants	Number of training activities (classes, webinars) held, number of market actors participants by segment (e.g. building officials, builders, architects, etc.) and the the total size (number of the target audience) by sector. (M) Number of participants	Codes & Standards (CS)	2017	N/A	N/A
294	SCG	A11	CS6	3	Score	Compliance Improvement	Metric	**SoCalGas-Only:** Increase in code compliance knowledge pre/post training	Increase in code compliance knowledge pre/post training	Codes & Standards (CS)	2017	N/A	N/A
295	SCG	A11	CS6R	1	Percent	Compliance Improvement	Metric	The percentage increase in closed permits for building projects triggering energy code compliance within participating jurisdictions	The percentage increase in closed permits for building projects triggering energy code compliance within participating jurisdictions	Codes & Standards (CS)	2017	N/A	N/A
296	SCG	A11	CS6Ri	1	Count	Compliance Improvement	Indicator	Number and percent of jurisdictions with staff participating in an Energy Policy Forum	Number and percent of jurisdictions with staff participating in an Energy Policy Forum	Codes & Standards (CS)	N/A - Indicator	N/A - Indicator	N/A - Indicator
297	SCG	A11	CS6Ri	1	Percent	Compliance Improvement	Indicator	Number and percent of jurisdictions with staff participating in an Energy Policy Forum	Number and percent of jurisdictions with staff participating in an Energy Policy Forum	Codes & Standards (CS)	N/A - Indicator	N/A - Indicator	N/A - Indicator
298	SCG	A11	CS6Ri	2	Count	Compliance Improvement	Indicator	Number and percent of jurisdictions receiving Energy Policy technical assistance.	Number and percent of jurisdictions receiving Energy Policy technical assistance.	Codes & Standards (CS)	N/A - Indicator	N/A - Indicator	N/A - Indicator
299	SCG	A11	CS6Ri	2	Percent	Compliance Improvement	Indicator	Number and percent of jurisdictions receiving Energy Policy technical assistance.	Number and percent of jurisdictions receiving Energy Policy technical assistance.	Codes & Standards (CS)	N/A - Indicator	N/A - Indicator	N/A - Indicator
300	SCG	A11	CS6Ri	3	Count	Compliance Improvement	Indicator	Buildings receiving enhanced code compliance support and delivering compliance data to program evaluators	Buildings receiving enhanced code compliance support and delivering compliance data to program evaluators	Codes & Standards (CS)	N/A - Indicator	N/A - Indicator	N/A - Indicator
301	SCG	A12	WET-1	1	Count	Collaborations	Metric	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 Education and Training (WET)	N/A	N/A	N/A
302	SCG	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	N/A
303	SCG	A12	WET-2	1	Percentage	Penetration	Metric	Percent of participation relative to eligible target population for curriculum	Percent of participation relative to eligible target population for curriculum	Workforce Education and Training (WET)	2016	12,141	139,375

Spreadsheet Index	PA	AttA Page	AttA Order	Method Code	Units of Measurement	Metric Type	Metric/ Indicator	Business Plan Att A Description	Metric	Sector	Baseline Year	Baseline Numerator	Baseline Denominator
304	SCG	A12	WET-3	1	Percentage	Diversity	Metric	Percent of total WE&T training program participants that meet the definition of disadvantaged worker.	Percent of total WE&T training program participants that meet the definition of disadvantaged worker.	Workforce Education and Training (WET)	N/A	N/A	N/A
305	SCG	A12	WET-3	1	Percentage	Diversity	Metric	Percent of incentive dollars spent on contracts* with a demonstrated commitment to provide career pathways to disadvantaged workers	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
306	SCG	A12	WET-3i	1	Count	Diversity	Indicator	Number Career & Workforce Readiness (CWR) participants who have been employed for 12 months after receiving the training	Number 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
307	SCG	A13	ETP-M1	1	Count	Research Prioritization	Metric	ETP-M1 Number of TPMs initiated (gas and electric combined), including one technology-focused pilot (TFP) TPM *This number will be updated once all third party contracts have been awarded.	ETP-M1 Number of TPMs initiated (gas and electric combined), including one technology-focused pilot (TFP) TPM	Emerging Technologies (ET)	N/A	N/A	N/A
308	SCG	A13	ETP-M2	1	Count of TPMs	Research Prioritization	Metric	ETP-M2 Number of TPMs updated *This number will be updated once all third party contracts have been awarded.	ETP-M2 Number of TPMs updated	Emerging Technologies (ET)	N/A	N/A	N/A
309	SCG	A13	ETP-M3	1	Count of Projects	Projects	Metric	ETP-M3 Number of projects initiated *This number will be updated once all third party contracts have been awarded.	ETP-M3 Number of projects initiated	Emerging Technologies (ET)	2017* To be updated with ED/IOU Coordination	N/A	N/A
310	SCG	A13	ETP-M4	1	Count of Events	Outreach	Metric	ETP-M4: Number of outreach events with technology developers with products <1 year from commercialization, including new technology vendors, manufacturers, and entrepreneurs. *This number will be updated once all third party contracts have been awarded.	ETP-M4: Number of outreach events with technology developers with products <1 year from commercialization, including new technology vendors, manufacturers, and entrepreneurs	Emerging Technologies (ET)	2017	N/A	N/A
311	SCG	A13	ETP-M5	1	Count of Events	Outreach	Metric	ETP-M5: Number of outreach events with technology developers with products <5 years from commercialization, including new technology vendors, manufacturers, and entrepreneurs. *This number will be updated once all third party contracts have been awarded.	ETP-M5: Number of outreach events with technology developers with products <5 years from commercialization, including new technology vendors, manufacturers, and entrepreneurs	Emerging Technologies (ET)	See ETP-M4	N/A	N/A
312	SCG	A14	ETP-M6	1	Count of TFPs	Pilots	Metric	ETP-M6: Number of projects initiated with cooperation from other internal IOU programs associated with each Technology-focused Pilot *This number will be updated once all third party contracts have been awarded.	ETP-M6: Number of projects initiated with cooperation from other internal IOU programs associated with each Technology-focused Pilot	Emerging Technologies (ET)	N/A	N/A	N/A

Spreadsheet Index	PA	AttA Page	AttA Order	Method Code	Units of Measurement	Metric Type	Metric/ Indicator	Business Plan Att A Description	Metric	Sector	Baseline Year	Baseline Numerator	Baseline Denominator
313	SCG	A14	ETP-M7	1	Count of TFPs	Pilots	Metric	ETP-M7 Number of Technology-Focused Pilot (TFP) initiated as part of the TFP TPM. *This number will be updated once all third party contracts have been awarded.	ETP-M7 Number of Technology-Focused Pilot (TFP) initiated as part of the TFP TPM	Emerging Technologies (ET)	N/A	N/A	N/A
314	SCG	A15	ETP-T1	1	Percent of New Measures	Measure Tracing	Metric	ETP-T1: Prior year: % of new measures added to the portfolio that were previously ETP technologies *The PAs believe this is not suited for a metric with targets because ETP does not make decisions about new measures.	ETP-T1: Prior year: % of new measures added to the portfolio that were previously ETP technologies	Emerging Technologies (ET)	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*
315	SCG	A15	ETP-T2	1	Count of New Measures	Measure Tracing	Metric	ETP-T2: Prior Year: # of new measures added to the portfolio that were previously ETP technologies. *The PAs believe this is not suited for a metric with targets because ETP does not make decisions about new measures.	ETP-T2: Prior Year: # of new measures added to the portfolio that were previously ETP technologies	Emerging Technologies (ET)	Per ED, to be determined by an ED study*	N/A	N/A
316	SCG	A15	ETP-T3	1	Percent	Measure Tracing	Metric	ETP-T3: Prior year: % of new codes or standards that were previously ETP technologies. *The PAs believe this is not suited for a metric with targets because ETP does not make decisions about new codes or standards.	ETP-T3: Prior year: % of new codes or standards that were previously ETP technologies	Emerging Technologies (ET)	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*
317	SCG	A15	ETP-T4	1	Count	Measure Tracing	Metric	ETP-T4: Prior Year: # of new codes and standards that were previously ETP technologies. *The PAs believe this is not suited for a metric with targets because ETP does not make decisions about new codes or standards.	ETP-T4: Prior Year: # of new codes and standards that were previously ETP technologies	Emerging Technologies (ET)	Per ED, to be determined by an ED study*	N/A	N/A
318	SCG	A15	ETP-T5a	1	Lifecycle net kW	Savings Tracing	Metric	ETP-T5a: Savings of measures currently in the portfolio that were supported by ETP, added since 2009. Ex-ante with gross and net for all measures, with ex-post where available. *The PAs believe this is not suited for a metric with targets because ETP is a non-resource program and does not claim any savings.	ETP-T5a: Savings of measures currently in the portfolio that were supported by ETP, added since 2009. Ex-ante with gross and net for all measures, with ex-post where available	Emerging Technologies (ET)	Per ED, to be determined by an ED study*	N/A	N/A
319	SCG	A15	ETP-T5b	1	Lifecycle net kWh	Savings Tracing	Metric	ETP-T5b: Savings of measures currently in the portfolio that were supported by ETP, added since 2009. Ex-ante with gross and net for all measures, with ex-post where available. *The PAs believe this is not suited for a metric with targets because ETP is a non-resource program and does not claim any savings.	ETP-T5b: Savings of measures currently in the portfolio that were supported by ETP, added since 2009. Ex-ante with gross and net for all measures, with ex-post where available	Emerging Technologies (ET)	Per ED, to be determined by an ED study*	N/A	N/A
320	SCG	A15	ETP-T5c	1	Lifecycle net Therms	Savings Tracing	Metric	ETP-T5c: Savings of measures currently in the portfolio that were supported by ETP, added since 2009. Ex-ante with gross and net for all measures, with ex-post where available. *The PAs believe this is not suited for a metric with targets because ETP is a non-resource program and does not claim any savings.	ETP-T5c: Savings of measures currently in the portfolio that were supported by ETP, added since 2009. Ex-ante with gross and net for all measures, with ex-post where available	Emerging Technologies (ET)	Per ED, to be determined by an ED study*	N/A	N/A

Spreadsheet Index	PA	AttA Page	AttA Order	Method Code	Units of Measurement	Metric Type	Metric/ Indicator	Business Plan Att A Description	Metric	Sector	Baseline Year	Baseline Numerator	Baseline Denominator
321	SCG	A15	ETP-T6a	1	Count of project ideas by PA	Project Idea Tracing	Metric	ETP-T6a Number and source (as reported by submitter) of project ideas submitted OUTSIDE OF the annual TPM research planning process, for these categories of sources: **PA**, national lab, manufacturer, entrepreneur, etc.) *The PAs believe this is not suited for a metric with targets because ETP does not control the number of submissions nor their sources. Targets are set in a way to avoid forcing ETP to arbitrarily change existing processes in a way that may negatively impact the effectiveness of the program. Targets and sources may be updated in collaboration with ED after all 3P contracts are awarded.	ETP-T6a Number and source (as reported by submitter) of project ideas submitted OUTSIDE OF the annual TPM research planning process by PA	Emerging Technologies (ET)	N/A	N/A	N/A
322	SCG	A15	ETP-T6b	1	Count of project ideas by national labs	Project Idea Tracing	Metric	ETP-T6b Number and source (as reported by submitter) of project ideas submitted OUTSIDE OF the annual TPM research planning process, for these categories of sources: PA, **national lab**, manufacturer, entrepreneur, etc.) *The PAs believe this is not suited for a metric with targets because ETP does not control the number of submissions nor their sources. Targets are set in a way to avoid forcing ETP to arbitrarily change existing processes in a way that may negatively impact the effectiveness of the program. Targets and sources may be updated in collaboration with ED after all 3P contracts are awarded.	ETP-T6b Number and source (as reported by submitter) of project ideas submitted OUTSIDE OF the annual TPM research planning process by National Lab	Emerging Technologies (ET)	N/A	N/A	N/A
323	SCG	A15	ETP-T6c	1	Count of project ideas by manufacturers	Project Idea Tracing	Metric	ETP-T6c Number and source (as reported by submitter) of project ideas submitted OUTSIDE OF the annual TPM research planning process, for these categories of sources: PA, national lab, **manufacturer**, entrepreneur, etc.) *The PAs believe this is not suited for a metric with targets because ETP does not control the number of submissions nor their sources. Targets are set in a way to avoid forcing ETP to arbitrarily change existing processes in a way that may negatively impact the effectiveness of the program. Targets and sources may be updated in collaboration with ED after all 3P contracts are awarded.	ETP-T6c Number and source (as reported by submitter) of project ideas submitted OUTSIDE OF the annual TPM research planning process by Manufacturer	Emerging Technologies (ET)	N/A	N/A	N/A
324	SCG	A15	ETP-T6d	1	Count of project ideas by entrepreneurs	Project Idea Tracing	Metric	ETP-T6d Number and source (as reported by submitter) of project ideas submitted OUTSIDE OF the annual TPM research planning process, for these categories of sources: PA, national lab, manufacturer, **entrepreneur**, etc.) *The PAs believe this is not suited for a metric with targets because ETP does not control the number of submissions nor their sources. Targets are set in a way to avoid forcing ETP to arbitrarily change existing processes in a way that may negatively impact the effectiveness of the program. Targets and sources may be updated in collaboration with ED after all 3P contracts are awarded.	ETP-T6d Number and source (as reported by submitter) of project ideas submitted OUTSIDE OF the annual TPM research planning process by Entrepreneur	Emerging Technologies (ET)	N/A	N/A	N/A
325	SCG	A15	ETP-T7a	1	Count of project ideas by PA	Project Idea Tracing	Metric	ETP-T7a Number and source (as reported by submitter) of project ideas submitted AS PART OF the annual TPM research planning process, for these categories of sources: **PA**, national lab, manufacturer, entrepreneur, etc.) *The PAs believe this is not suited for a metric with targets because ETP does not control the number of submissions nor their sources. Targets are set in a way to avoid forcing ETP to arbitrarily change existing processes in a way that may negatively impact the effectiveness of the program. Targets and sources may be updated in collaboration with ED after all 3P contracts are awarded.	ETP-T7a Number and source (as reported by submitter) of project ideas submitted AS PART OF the annual TPM research planning process by PA	Emerging Technologies (ET)	N/A	N/A	N/A
326	SCG	A15	ETP-T7b	1	Count of project ideas by national labs	Project Idea Tracing	Metric	ETP-T7b Number and source (as reported by submitter) of project ideas submitted AS PART OF the annual TPM research planning process, for these categories of sources: PA, **national lab**, manufacturer, entrepreneur, etc.) *The PAs believe this is not suited for a metric with targets because ETP does not control the number of submissions nor their sources. Targets are set in a way to avoid forcing ETP to arbitrarily change existing processes in a way that may negatively impact the effectiveness of the program. Targets and sources may be updated in collaboration with ED after all 3P contracts are awarded.	ETP-T7b Number and source (as reported by submitter) of project ideas submitted AS PART OF the annual TPM research planning process by National Lab	Emerging Technologies (ET)	N/A	N/A	N/A

Spreadsheet Index	PA	AttA Page	AttA Order	Method Code	Units of Measurement	Metric Type	Metric/ Indicator	Business Plan Att A Description	Metric	Sector	Baseline Year	Baseline Numerator	Baseline Denominator
327	SCG	A15	ETP-T7c	1	Count of project ideas by manufacturers	Project Idea Tracing	Metric	ETP-T7c Number and source (as reported by submitter) of project ideas submitted AS PART OF the annual TPM research planning process, for these categories of sources: PA, national lab, **manufacturer**, entrepreneur, etc.) *The PAs believe this is not suited for a metric with targets because ETP does not control the number of submissions nor their sources. Targets are set in a way to avoid forcing ETP to arbitrarily change existing processes in a way that may negatively impact the effectiveness of the program. Targets and sources may be updated in collaboration with ED after all 3P contracts are awarded.	ETP-T7c Number and source (as reported by submitter) of project ideas submitted AS PART OF the annual TPM research planning process by Manufacturer	Emerging Technologies (ET)	N/A	N/A	N/A
328	SCG	A15	ETP-T7d	1	Count of project ideas by entrepreneurs	Project Idea Tracing	Metric	ETP-T7d Number and source (as reported by submitter) of project ideas submitted AS PART OF the annual TPM research planning process, for these categories of sources: PA, national lab, manufacturer, **entrepreneur**, etc.) *The PAs believe this is not suited for a metric with targets because ETP does not control the number of submissions nor their sources. Targets are set in a way to avoid forcing ETP to arbitrarily change existing processes in a way that may negatively impact the effectiveness of the program. Targets and sources may be updated in collaboration with ED after all 3P contracts are awarded.	ETP-T7d Number and source (as reported by submitter) of project ideas submitted AS PART OF the annual TPM research planning process by Entrepreneur	Emerging Technologies (ET)	N/A	N/A	N/A
329	SCG	A16	ETP-T8	1	Number of lists	Statewide Goal Alignment	Metric	ETP-T8: List of ETP projects aligned with statewide goals that were initiated in the reporting year with specificity as to what aspect of each goal it is fulfilling. Goals will also be labeled in the ETP database. A list of eligible goals will be developed collaboratively with ED.	ETP-T8: List of ETP projects aligned with statewide goals that were initiated in the reporting year with specificity as to what aspect of each goal it is fulfilling	Emerging Technologies (ET)	N/A	N/A	N/A

Spreadsheet Index	Baseline Number	2017	Short Term Target 2018	2019	2020	Mid Term Target (2021-2023) Cumulative	Long Term Target (2024-2025) Cumulative	Methodology	Key Definitions	Proxy Explanation	Applies to SCG?
0	366,401	416,600	519,882	542,486	610,297	2,056,926	1,390,120	Per CEDARS	None		Y
1	N/A	N/A	N/A	N/A	N/A	N/A	N/A				N
2	N/A	N/A	N/A	N/A	N/A	N/A	N/A				N
3	N/A	N/A	N/A	N/A	N/A	N/A	N/A				N
4	N/A	N/A	N/A	N/A	N/A	N/A	N/A				N
5	38,456,156	39,877,543	52,000,000	55,000,000	61,000,000	206,000,000	141,000,000	N/A	None		Y
6	32,419,727	35,991,671	46,000,000	48,000,000	54,000,000	182,000,000	123,000,000	N/A	None		Y
7	N/A	N/A	N/A	N/A	N/A	N/A	N/A				N
8	N/A	N/A	N/A	N/A	N/A	N/A	N/A				N
9	N/A	N/A	N/A	N/A	N/A	N/A	N/A				N
10	N/A	N/A	N/A	N/A	N/A	N/A	N/A				N
11	480,467,409	522,106,297	693,662,150	726,398,072	815,488,291	2,751,030,225	1,865,099,063	N/A	None		Y
12	422,174,997	475,290,840	581,627,763	603,160,246	681,047,027	2,291,689,239	1,540,199,340	N/A	None		Y
13	N/A	N/A	N/A	N/A	N/A	N/A	N/A				N
14	N/A	N/A	N/A	N/A	N/A	N/A	N/A				N
15	N/A	N/A	N/A	N/A	N/A	N/A	N/A				N
16	N/A	N/A	N/A	N/A	N/A	N/A	N/A				N
17	4,336,520	2,496,127	7,220,540	8,053,679	8,627,943	30,532,582	22,353,104	N/A	D.18-05-041: DAC = Bill accounts in census tracts corresponding to census tracts in the top quartile of CalEnviroScreen 3.0 scores.		Y
18	2,665,824	1,580,862	5,395,057	5,934,562	6,488,234	22,942,524	16,569,977	N/A	D.18-05-041: DAC = Bill accounts in census tracts corresponding to census tracts in the top quartile of CalEnviroScreen 3.0 scores.		Y
19	N/A	N/A	N/A	N/A	N/A	N/A	N/A				N
20	N/A	N/A	N/A	N/A	N/A	N/A	N/A				N
21	N/A	N/A	N/A	N/A	N/A	N/A	N/A				N

Spreadsheet Index	Baseline Number	2017	Short Term Target 2018	2019	2020	Mid Term Target (2021-2023) Cumulative	Long Term Target (2024-2025) Cumulative	Methodology	Key Definitions	Proxy Explanation	Applies to SCG?
22	N/A	N/A	N/A	N/A	N/A	N/A	N/A				N
23	56,204,869	28,735,742	113,746,627	125,121,289	136,794,615	483,708,495	349,352,958	N/A	D.18-05-041: DAC = Bill accounts in census tracts corresponding to census tracts in the top quartile of CalEnviroScreen 3.0 scores.		Y
24	33,996,508	17,940,391	45,255,195	49,780,714	54,425,059	192,448,099	138,993,451	N/A	D.18-05-041: DAC = Bill accounts in census tracts corresponding to census tracts in the top quartile of CalEnviroScreen 3.0 scores.		Y
25	N/A	N/A	N/A	N/A	N/A	N/A	N/A				N
26	N/A	N/A	N/A	N/A	N/A	N/A	N/A				N
27	N/A	N/A	N/A	N/A	N/A	N/A	N/A				N
28	N/A	N/A	N/A	N/A	N/A	N/A	N/A				N
29	5,427,644	4,382,279	8,969,956	10,004,950	10,715,032	37,737,334	27,549,361	N/A	D p. 43 - Resolution G-3497, modified to "include disadvantaged communities (as designated by CalEPA) in the geographic criteria for hard to reach customers." with modification. Geographically, SoCalGas' hard-to-reach areas are disadvantaged communities other than the Greater Los Angeles Area (Los Angeles, Orange, San Bernardino, Riverside, and Ventura counties)		Y
30	3,331,000	2,781,629	6,690,982	7,360,080	8,044,257	46,127,385	33,220,454	N/A	D p. 43 - Resolution G-3497, modified to "include disadvantaged communities (as designated by CalEPA) in the geographic criteria for hard to reach customers." with modification. Geographically, SoCalGas' hard-to-reach areas are disadvantaged communities other than the Greater Los Angeles Area (Los Angeles, Orange, San Bernardino, Riverside, and Ventura counties)		Y
31	N/A	N/A	N/A	N/A	N/A	N/A	N/A				N
32	N/A	N/A	N/A	N/A	N/A	N/A	N/A				N
33	N/A	N/A	N/A	N/A	N/A	N/A	N/A				N
34	N/A	N/A	N/A	N/A	N/A	N/A	N/A				N
35	66,223,534	46,307,998	133,023,256	146,325,582	159,927,686	562,807,460	405,327,961	N/A	D p. 43 - Resolution G-3497, modified to "include disadvantaged communities (as designated by CalEPA) in the geographic criteria for hard to reach customers." with modification. Geographically, SoCalGas' hard-to-reach areas are disadvantaged communities other than the Greater Los Angeles Area (Los Angeles, Orange, San Bernardino, Riverside, and Ventura counties)		Y
36	40,097,051	28,839,247	52,978,199	58,276,019	63,693,230	224,145,210	161,427,002	N/A	D p. 43 - Resolution G-3497, modified to "include disadvantaged communities (as designated by CalEPA) in the geographic criteria for hard to reach customers." with modification. Geographically, SoCalGas' hard-to-reach areas are disadvantaged communities other than the Greater Los Angeles Area (Los Angeles, Orange, San Bernardino, Riverside, and Ventura counties)		Y
37	N/A	N/A	N/A	N/A	N/A	N/A	N/A				N
38	N/A	N/A	N/A	N/A	N/A	N/A	N/A				N
39	0.43	0.42	0.43	0.43	0.43	0.43	0.43	Per CEDARS	None		Y
40	N/A	N/A	N/A	N/A	N/A	N/A	N/A				N

Spreadsheet Index	Baseline Number	2017	Short Term Target 2018	2019	2020	Mid Term Target (2021-2023) Cumulative	Long Term Target (2024-2025) Cumulative	Methodology	Key Definitions	Proxy Explanation	Applies to SCG?
41	N/A	N/A	N/A	N/A	N/A	N/A	N/A				N
42	0.71	0.64	0.71	0.71	0.71	0.71	0.71	Per CEDARS	None		Y
43	N/A	N/A	N/A	N/A	N/A	N/A	N/A				N
44	N/A	N/A	N/A	N/A	N/A	N/A	N/A				N
45	N/A	N/A	N/A	N/A	N/A	N/A	N/A				N
46	N/A	N/A	N/A	N/A	N/A	N/A	N/A				N
47	1,963,544	2,469,179	1,145,401	1,145,401	1,145,401	6,636,779	6,970,582	Per CEDARS	None		Y
48	1,266,929	1,608,285	739,042	739,042	739,042	4,282,219	4,497,597	Per CEDARS	None		Y
49	N/A	N/A	N/A	N/A	N/A	N/A	N/A				N
50	N/A	N/A	N/A	N/A	N/A	N/A	N/A				N
51	N/A	N/A	N/A	N/A	N/A	N/A	N/A				N
52	N/A	N/A	N/A	N/A	N/A	N/A	N/A				N
53	25,538,464	30,293,953	26,815,387	27,070,772	27,836,926	95,769,240	66,400,006	Per CEDARS	None		Y
54	16,610,078	18,746,836	17,440,582	17,606,682	18,104,985	62,287,792	43,186,202	Per CEDARS	None		Y
55	17,000	17,521	29,749	29,749	29,749	57,459	60,349	Per CEDARS	Definition: Single family are defined as bill account on GR rates, with dwelling code of single family home or single family dwelling.		Y
56	N/A	N/A	N/A	N/A	N/A	N/A	N/A				N
57	N/A	N/A	N/A	N/A	N/A	N/A	N/A				N
58	173	154	175	177	179	184	187	D1D: Downstream methodology- Numerator: Total downstream savings claimedDenominator: Total number of downstream participants	Per ED: “Energy savings” = lifecycle NET savings.		Y
59	N/A	N/A	N/A	N/A	N/A	N/A	N/A				N
60	N/A	N/A	N/A	N/A	N/A	N/A	N/A				N
61	64	48	64	65	65	67	69	D1M: Midstream methodology – Numerator: Total midstream savings claimed Denominator: number of midstream equipment rebated * Single family participation rate for PLA	Per ED: “Energy savings” = lifecycle NET savings.		Y

Spreadsheet Index	Baseline Number	2017	Short Term Target 2018	2019	2020	Mid Term Target (2021-2023) Cumulative	Long Term Target (2024-2025) Cumulative	Methodology	Key Definitions	Proxy Explanation	Applies to SCG?
62	N/A	N/A	N/A	N/A	N/A	N/A	N/A				N
63	N/A	N/A	N/A	N/A	N/A	N/A	N/A				N
64	-	-	4	4	4	4	4	D1O Methodology: Only ex post savings can be claimed. Per participant savings will be calculated in the EM&V study.	D1O Key Definitions: 1) The only opt-out program is the Home Energy Report using social norming through neighborhood comparisons 2) Per ED: “Energy savings” = lifecycle NET savings.		Y
65	N/A	N/A	N/A	N/A	N/A	N/A	N/A				N
66	N/A	N/A	N/A	N/A	N/A	N/A	N/A				N
67	843	751	835	826	818	793	776	D1M: Upstream methodology – Numerator: Total upstream savings claimed Denominator: number of upstream equipment rebated * Single family participation rate for PLA	Per ED: “Energy savings” = lifecycle NET savings.		Y
68	2.8%	3.4%	8.4%	8.4%	8.4%	19.8%	20.0%	P1 Methodology: Numerator: Number of downstream participants) Denominator: total number of service accounts in the sector	Definition: "Eligible population" refers to Total number of service accounts in sector/segment, excluding CARE. "Participation" is defined as the first instance of participation, should a customer participate more than once or participate in multiple programs in the calendar year. PAs also need to have enough information about a customer to determine if the customer is in the eligible population and service territory.		Y
69	4.6%	4.4%	5.3%	5.3%	5.5%	9.2%	11.5%	Numerator: Number of participants in disadvantaged communities.Denominator: Total number of customers in disadvantaged communities.	D.18-05-041: DAC = Bill accounts in census tracts corresponding to census tracts in the top quartile of CalEnviroScreen 3.0 scores.		Y
70	3.9%	3.6%	4.5%	4.5%	4.7%	7.9%	9.8%	P4 Methodology:Numerator: number of participants in HTR geographic areaDenominator: Total number of service accounts in HTR geographic area	D p. 43 - Resolution G-3497, modified to "include disadvantaged communities (as designated by CalEPA) in the geographic criteria for hard to reach customers." with modification. Geographically, SoCalGas' hard-to-reach areas are disadvantaged communities other than the Greater Los Angeles Area (Los Angeles, Orange, San Bernardino, Riverside, and Ventura counties)		Y
71	N/A	N/A	N/A	N/A	N/A	N/A	N/A				N
72	N/A	N/A	N/A	N/A	N/A	N/A	N/A				N
73	0.74	0.94	0.74	0.74	0.74	0.74	0.74	Per CEDARS	None		Y
74	N/A	N/A	N/A	N/A	N/A	N/A	N/A				N
75	N/A	N/A	N/A	N/A	N/A	N/A	N/A				N
76	1.70	1.52	1.7	1.7	1.7	1.7	1.7	Per CEDARS	None		Y
77	N/A - Indicator	N/A - Indicator	N/A - Indicator	N/A - Indicator	N/A - Indicator	N/A - Indicator	N/A - Indicator	Numerator: Total energy used in sectorDenominator: number of service accounts	Definition: Household refers to a service account		I
78	N/A	N/A	N/A	N/A	N/A	N/A	N/A				N
79	N/A	N/A	N/A	N/A	N/A	N/A	N/A				N
80	N/A	N/A	N/A	N/A	N/A	N/A	N/A				N

Spreadsheet Index	Baseline Number	2017	Short Term Target 2018	2019	2020	Mid Term Target (2021-2023) Cumulative	Long Term Target (2024-2025) Cumulative	Methodology	Key Definitions	Proxy Explanation	Applies to SCG?
81	N/A	N/A	N/A	N/A	N/A	N/A	N/A				N
82	140,697	178,554	142,808	142,808	147,732	485,406	351,744	Savings calculated using CET.	A multi-family unit. Designated by a unique billing account under rate GR and location code (LC_CD) = B, C, D (>= 2 units)		Y
83	94,726	111,452	96,147	96,147	99,463	326,806	236,816	Savings calculated using CET.	A multi-family unit. Designated by a unique billing account under rate GR and location code (LC_CD) = B, C, D (>= 2 units)		Y
84	N/A	N/A	N/A	N/A	N/A	N/A	N/A				N
85	N/A	N/A	N/A	N/A	N/A	N/A	N/A				N
86	N/A	N/A	N/A	N/A	N/A	N/A	N/A				N
87	N/A	N/A	N/A	N/A	N/A	N/A	N/A				N
88	1,682,187	2,293,520	1,707,420	1,707,420	1,766,296	5,803,545	4,205,468	Savings calculated using CET.	A multi-family unit. Designated by a unique billing account under rate GR and location code (LC_CD) = B, C, D (>= 2 units)		Y
89	1,574,918	1,720,311	1,598,542	1,598,542	1,653,664	5,433,467	3,937,295	Savings calculated using CET.	A multi-family unit. Designated by a unique billing account under rate GR and location code (LC_CD) = B, C, D (>= 2 units)		Y
90	N/A	N/A	N/A	N/A	N/A	N/A	N/A				N
91	N/A	N/A	N/A	N/A	N/A	N/A	N/A				N
92	N/A	N/A	N/A	N/A	N/A	N/A	N/A				N
93	N/A	N/A	N/A	N/A	N/A	N/A	N/A				N
94	1,190,539	565,081	1,208,397	1,208,397	1,250,066	4,107,361	2,976,348	Savings calculated using CET.	AL 3826. Natural gas procurement for MF accomodations supply Baseline uses through one meter. Such as service will be billed under rates designated for GM-E, GM-BE or GM-BEC, as appropriate.		Y
95	834,669	361,725	847,189	847,189	876,403	2,879,609	2,086,673	Savings calculated using CET.	AL 3826. Natural gas procurement for MF accomodations supply Baseline uses through one meter. Such as service will be billed under rates designated for GM-E, GM-BE or GM-BEC, as appropriate.		Y
96	N/A	N/A	N/A	N/A	N/A	N/A	N/A				N

Spreadsheet Index	Baseline Number	2017	Short Term Target 2018	2019	2020	Mid Term Target (2021-2023) Cumulative	Long Term Target (2024-2025) Cumulative	Methodology	Key Definitions	Proxy Explanation	Applies to SCG?
97	N/A	N/A	N/A	N/A	N/A	N/A	N/A				N
98	N/A	N/A	N/A	N/A	N/A	N/A	N/A				N
99	N/A	N/A	N/A	N/A	N/A	N/A	N/A				N
100	10,899,317	3,975,876	11,062,807	11,062,807	11,444,283	37,602,645	27,248,293	Savings calculated using CET.	AL 3826. Natural gas procurement for MF accomodations supply Baseline uses through one meter. Such as service will be billed under rates designated for GM-E, GM-BE or GM-BEC, as appropriate.		Y
101	8,275,483	2,559,625	8,399,615	8,399,615	8,689,257	28,550,417	20,688,708	Savings calculated using CET.	AL 3826. Natural gas procurement for MF accomodations supply Baseline uses through one meter. Such as service will be billed under rates designated for GM-E, GM-BE or GM-BEC, as appropriate.		Y
102	N/A	N/A	N/A	N/A	N/A	N/A	N/A				N
103	N/A	N/A	N/A	N/A	N/A	N/A	N/A				N
104	N/A	N/A	N/A	N/A	N/A	N/A	N/A				N
105	N/A	N/A	N/A	N/A	N/A	N/A	N/A				N
106	83,699	11,691	84,955	84,955	87,884	288,762	209,248	Savings calculated using CET.	AL 3826. Natural gas supplied through a single meter to common facilities only, will be billed under rates GM-C, GM-BC or GM-BCC, as appropriate.		Y
107	66,296	7,289	67,291	67,291	69,611	228,722	165,741	Savings calculated using CET.	AL 3826. Natural gas supplied through a single meter to common facilities only, will be billed under rates GM-C, GM-BC or GM-BCC, as appropriate.		Y
108	N/A	N/A	N/A	N/A	N/A	N/A	N/A				N
109	N/A	N/A	N/A	N/A	N/A	N/A	N/A				N
110	N/A	N/A	N/A	N/A	N/A	N/A	N/A				N
111	N/A	N/A	N/A	N/A	N/A	N/A	N/A				N
112	977,601	76,523	992,265	992,265	1,026,481	3,372,723	2,444,002	Savings calculated using CET.	AL 3826. Natural gas supplied through a single meter to common facilities only, will be billed under rates GM-C, GM-BC or GM-BCC, as appropriate.		Y

Spreadsheet Index	Baseline Number	2017	Short Term Target 2018	2019	2020	Mid Term Target (2021-2023) Cumulative	Long Term Target (2024-2025) Cumulative	Methodology	Key Definitions	Proxy Explanation	Applies to SCG?
113	819,327	47,844	831,617	831,617	860,293	2,826,677	2,048,317	Savings calculated using CET.	AL 3826. Natural gas supplied through a single meter to common facilities only, will be billed under rates GM-C, GM-BC or GM-BCC, as appropriate.		Y
114	8,424	5,282	8,550	8,550	8,845	9,688	10,530	Per CEDARS	Definition: Multi-family refers to any buliding or property with at least two residential housing units.		Y
115	N/A	N/A	N/A	N/A	N/A	N/A	N/A				N
116	N/A	N/A	N/A	N/A	N/A	N/A	N/A				N
117	4,194	1659	4,257	4,257	4,404	4,824	5,243	D3 Methodology:Numerator: Total Savings claimed for MF building retrofitsDenominator: Number of buildings that have been retrofitted, per application (assumed 7.4 units per building (CALMAC http://www.calmac.org/publications/MFEER_Process_Evaluation_FINAL_130415.pdf))	D3 Key Definitions: Project applications are made at the property level (premise ID and service account number) not the building level; building information will be used as is available on project applications"Energy savings" = Lifecycle NET savings		Y
118	N/A	N/A	N/A	N/A	N/A	N/A	N/A				N
119	N/A	N/A	N/A	N/A	N/A	N/A	N/A				N
120	111	155	112	112	116	127	138	D4 Methodology:Numerator - Total downstream savings Denominator - number of participating properties (i.e., premise ID x service account}	D4 Definition: "Project (property)" is defined by a unique project ID. "Energy savings" = Lifecycle NET savings		Y
121	N/A	N/A	N/A	N/A	N/A	N/A	N/A				N
122	N/A	N/A	N/A	N/A	N/A	N/A	N/A				N
123	0.28	0.16	0.29	0.29	0.30	0.33	0.36	D5 Methodology: [Numerator] Total downstream savings [Denominator] Total MF square foot per Assessor data	Per ED: "Energy savings" = lifecycle NET savings.		Y
124	1.7%	1.3%	1.7%	1.7%	1.8%	1.9%	2.1%	P1 Methodology: Numerator: Number of downstream participating properties (unique project ID) Denominator: total number of properties (unique service account) in the sector.	Participation is defined as the first instance of participation, should a customer participate more than once or participate in multiple programs in the calendar year. PAs also need to have enough information about a customer to determine if the customer is in the eligible population and service territory.		Y
125	0.9%	0.7%	1.0%	1.0%	1.0%	1.1%	1.2%	P1 Methodology: Numerator: Number of downstream participating MF units (unique service account = "unit") Denominator: total number of units (service accounts) in the sector.	Participation is defined as the first instance of participation, should a customer participate more than once or participate in multiple programs in the calendar year. PAs also need to have enough information about a customer to determine if the customer is in the eligible population and service territory.		Y
126	0.8%	0.6%	0.8%	0.8%	0.9%	1.0%	1.0%	P2 Methodology: Numerator: # service accounts participating X average sqft/service account)Denominator: Square footage of all eligible accounts (per Assessor)			Y
127	0.5%	0.4%	0.6%	0.6%	0.6%	1.0%	1.2%	Numerator: Number of participants (service accounts) in disadvantaged communities.Denominator: Total number of customers (service accounts) in disadvantaged communities.	D.18-05-041: DAC = Bill accounts in census tract corresponding to the top quartile of CalEnviroScreen 3.0 scores.		Y
128	0.5%	0.4%	0.6%	0.6%	0.6%	1.0%	1.2%	P4 Methodology:Numerator: number of participants in HTR geographic areaDenominator: Total number of service accounts in HTR geographic area	D p. 43 - Resolution G-3497, modified to "include disadvantaged communities (as designated by CalEPA) in the geographic criteria for hard to reach customers." with modification. Geographically, SoCalGas' hard-to-reach areas are disadvantaged communities other than the Greater Los Angeles Area (Los Angeles, Orange, San Bernardino, Riverside, and Ventura counties)		Y
129	0.3%	0.6%	1%	10%	10%	10%	10%	Total benchmarked units in RMF sectorTotal number of service account in RMF sectorBenchmarked via Portfolio Manager2019 MF with 17 or units MUST Benchmark			Y

Spreadsheet Index	Baseline Number	2017	Short Term Target 2018	2019	2020	Mid Term Target (2021-2023) Cumulative	Long Term Target (2024-2025) Cumulative	Methodology	Key Definitions	Proxy Explanation	Applies to SCG?
130	0.0%	0.0%	1%	10%	10%	10%	10%	Benchmarking per Portfolio Manager. Service accounts in HTR market			Y
131	N/A	N/A	N/A	N/A	N/A	N/A	N/A				N
132	N/A	N/A	N/A	N/A	N/A	N/A	N/A				N
133	0.74	0.90	0.74	0.74	0.74	0.74	0.74	Per CEDARS	None		Y
134	N/A	N/A	N/A	N/A	N/A	N/A	N/A				N
135	N/A	N/A	N/A	N/A	N/A	N/A	N/A				N
136	0.98	0.99	0.98	0.98	0.98	0.98	0.98	Per CEDARS	None		Y
137	N/A - Indicator	N/A - Indicator	N/A - Indicator	N/A - Indicator	N/A - Indicator	N/A - Indicator	N/A - Indicator	Numerator: Total usage of Res MF sectorDenominator: total units (service accounts) in Res MF sector			I
138	N/A - Indicator	N/A - Indicator	N/A - Indicator	N/A - Indicator	N/A - Indicator	N/A - Indicator	N/A - Indicator	Numerator: Total usage of Res MF sectorDenominator: average number of units in MF buiilding times average square footage of MF units			I
139	N/A	N/A	N/A	N/A	N/A	N/A	N/A				N
140	N/A	N/A	N/A	N/A	N/A	N/A	N/A				N
141	N/A	N/A	N/A	N/A	N/A	N/A	N/A				N
142	N/A	N/A	N/A	N/A	N/A	N/A	N/A				N
143	3,552,481	3,342,185	3,552,481	3,641,293	3,730,105	11,723,187	8,170,706	per CEDARS	Excludes public accounts.		Y
144	2,221,709	2,132,366	2,221,709	2,277,252	2,332,795	7,331,641	5,109,931	per CEDARS	None		Y
145	N/A	N/A	N/A	N/A	N/A	N/A	N/A				N
146	N/A	N/A	N/A	N/A	N/A	N/A	N/A				N
147	N/A	N/A	N/A	N/A	N/A	N/A	N/A				N
148	N/A	N/A	N/A	N/A	N/A	N/A	N/A				N
149	42,882,610	42,998,315	42,882,610	43,954,675	45,026,740	141,512,612	98,630,002	per CEDARS	None		Y
150	26,867,413	27,300,788	26,867,413	27,539,098	28,210,784	88,662,463	61,795,050	per CEDARS	None		Y
151	N/A	N/A	N/A	N/A	N/A	N/A	N/A				N
152	N/A	N/A	N/A	N/A	N/A	N/A	N/A				N
153	N/A	N/A	N/A	N/A	N/A	N/A	N/A				N

Spreadsheet Index	Baseline Number	Short Term Target 2017	2018	2019	2020	Mid Term Target (2021-2023) Cumulative	Long Term Target (2024-2025) Cumulative	Methodology	Key Definitions	Proxy Explanation	Applies to SCG?
154	N/A	N/A	N/A	N/A	N/A	N/A	N/A				N
155	0.48%	0.44%	0.48%	0.49%	0.50%	0.52%	0.55%	S2 Methodology:Numerator = Metric C1 Denominator = Total sectoral usage, from PA billing database	None		Y
156	0.30%	0.28%	0.30%	0.30%	0.31%	0.33%	0.34%	S2 Methodology:Numerator = Metric C1 Denominator = Total sectoral usage, from PA billing database	None		Y
157	N/A	N/A	N/A	N/A	N/A	N/A	N/A				N
158	N/A	N/A	N/A	N/A	N/A	N/A	N/A				N
159	N/A	N/A	N/A	N/A	N/A	N/A	N/A				N
160	N/A	N/A	N/A	N/A	N/A	N/A	N/A				N
161	5.74%	5.69%	5.74%	5.89%	6.03%	6.32%	6.60%	S2 Methodology:Numerator = Metric C1 Denominator = Total sectoral usage, from PA billing database	None		Y
162	3.60%	3.61%	3.60%	3.69%	3.78%	3.96%	4.14%	S2 Methodology:Numerator = Metric C1 Denominator = Total sectoral usage, from PA billing database	None		Y
163	20,243	22,728	20,243	20,749	21,255	22,267	23,279	Per CEDARS			Y
164	N/A	N/A	N/A	N/A	N/A	N/A	N/A				N
165	N/A	N/A	N/A	N/A	N/A	N/A	N/A				N
166	10.01%	7.76%	10.0%	10.3%	10.5%	11.0%	11.5%	D2 Methodology (ED Ok)**Numerator: Energy savings claimed for project**Denominator: Energy Usage Baseline on application, against which project savings is calculated.		For compliance filing, denominator is equal to participant energy consumption.	Y
167	5.9%	6.6%	5.9%	6.0%	6.2%	6.5%	6.8%	P1 Methodology: Numerator: Number of downstream participating (service accounts) Denominator: total number (service accounts) in the sector.	Participation is defined as the first instance of participation, should a customer participate more than once or participate in multiple programs in the calendar year. PAs also need to have enough information about a customer to determine if the customer is in the eligible population and service territory.		Y
168	4.1%	4.1%	5.0%	5.0%	5.0%	6.0%	8.0%	P1 Methodology: Numerator: Number of downstream participating (service accounts) Denominator: total number (service accounts) in the sector.	Participation is defined as the first instance of participation, should a customer participate more than once or participate in multiple programs in the calendar year. PAs also need to have enough information about a customer to determine if the customer is in the eligible population and service territory.		Y
169	0.7%	0.9%	0.7%	0.7%	0.7%	0.8%	0.8%	P1 Methodology: Numerator: Number of downstream participating (service accounts) Denominator: total number (service accounts) in the sector.	Participation is defined as the first instance of participation, should a customer participate more than once or participate in multiple programs in the calendar year. PAs also need to have enough information about a customer to determine if the customer is in the eligible population and service territory.		Y
170	1.0%	1.1%	1.0%	1.0%	1.1%	1.1%	1.2%	P2 Methodology: From Commercial Saturation Study (CalmacID CPU0077.01). Numerator: SoCalGas assigns the indoor square feet for each participating bill account by the CSS average square feet using their 2-digit NAICS Denominator: Total commercial accounts by 2-digit NAICS multiplied by the average indoor square feet by their respective subtotals by 2-digit NAICS.	In summary, the square feet of SoCalGas' commercial space is weighted by the number of commercial customers we serve. As a check for using this method, SoCalGas' estimated total commercial square feet is about 22% of the state from the 2006 CEUS results.	Since the CSS study includes only the electric utilities, SoCalGas uses SCE's result as a proxy.	Y

Spreadsheet Index	Baseline Number	2017	Short Term Target 2018	2019	2020	Mid Term Target (2021-2023) Cumulative	Long Term Target (2024-2025) Cumulative	Methodology	Key Definitions	Proxy Explanation	Applies to SCG?
171	0.1%	0.1%	0.08%	0.08%	0.08%	0.08%	0.09%	P4 Methodology:Numerator: number of participants in HTR geographic areaDenominator: Total number of service accounts in HTR geographic area.	D p. 43 - Resolution G-3497, modified to "include disadvantaged communities (as designated by CalEPA) in the geographic criteria for hard to reach customers." with modification. Geographically, SoCalGas' hard-to-reach areas are disadvantaged communities other than the Greater Los Angeles Area (Los Angeles, Orange, San Bernardino, Riverside, and Ventura counties)		Y
172	0.3%	0.3%	1.12%	2.25%	2.24%	2.24%	2.23%	P2 Methodology: From Commercial Saturation Study (CalmacID CPU0077.01). Numerator: SoCalGas assigns the indoor square feet for each participating bill account by the CSS average square feet using their 2-digit NAICS Denominator: Total commercial accounts by 2-digit NAICS multiplied by the average indoor square feet by their respective subtotals by 2-digit NAICS.	In summary, the square feet of SoCalGas' commercial space is weighted by the number of commercial customers we serve. As a check for using this method, SoCalGas' estimated total commercial square feet is about 22% of the state from the 2006 CEUS results.	Since the CSS study includes only the electric utilities, SoCalGas uses SCE's result as a proxy.	Y
173	1.8%	3.0%	100%	100%	100%	100%	100%	Methodology: Numerator: Number of large commercial customers that have been benchmarked on Portfolio ManagerDenominator: Total number of commercial customer accounts.	For benchmarking metrics, size of customer should be defined in line with AB 802 regulations (by square footage, not usage). If the PA territory overlaps a city with benchmarking ordinance, then use their size thresholds for reporting.		Y
174	0.81%	1.30%	2%	20%	20%	20%	20%	Methodology: Numerator: Number of Medium commercial customers that have been benchmarked on Portfolio ManagerDenominator: Total number of commercial customer accounts.	For benchmarking metrics, size of customer should be defined in line with AB 802 regulations (by square footage, not usage). If the PA territory overlaps a city with benchmarking ordinance, then use their size thresholds for reporting.		Y
175	0.20%	0.21%	0.21%	0.20%	0.20%	0.19%	0.18%	Methodology: Numerator: Number of Small commercial customers that have been benchmarked on Portfolio ManagerDenominator: Total number of commercial customer accounts.	For benchmarking metrics, size of customer should be defined in line with AB 802 regulations (by square footage, not usage). If the PA territory overlaps a city with benchmarking ordinance, then use their size thresholds for reporting.		Y
176	0.0%	0.1%	0.10%	0.10%	0.10%	0.10%	0.10%	Benchmarking per Portfolio Manager. Service accounts x premise IDs in HTR marketProxy, if characteristics other than size and geo location aren't known, develop proxy using just size and geo location.			Y
177	N/A	N/A	N/A	N/A	N/A	N/A	N/A				N
178	N/A	N/A	N/A	N/A	N/A	N/A	N/A				N
179	0.50	0.29	0.5	0.5	0.5	0.5	0.5	Per CEDARS	None		Y
180	N/A	N/A	N/A	N/A	N/A	N/A	N/A				N
181	N/A	N/A	N/A	N/A	N/A	N/A	N/A				N
182	0.61	0.42	0.61	0.61	0.61	0.61	0.61	Per CEDARS	None		Y
183	N/A - Indicator	N/A - Indicator	N/A - Indicator	N/A - Indicator	N/A - Indicator	N/A - Indicator	N/A - Indicator	Per CAEECC meeting: "Fraction of total custom projects utilizing NMEC to estimate savings".Data from CMPA (Custom Measure and Project Archive)			I
184	N/A - Indicator	N/A - Indicator	N/A - Indicator	N/A - Indicator	N/A - Indicator	N/A - Indicator	N/A - Indicator	Per CAEECC Meeting: "Fraction of total custom savings derived from NMEC analysis".Data from CMPA.			I
185	N/A - Indicator	N/A - Indicator	N/A - Indicator	N/A - Indicator	N/A - Indicator	N/A - Indicator	N/A - Indicator	Per CAEECC Meeting: M&E will develop and field a consistent survey instrument annually.			I
186	N/A - Indicator	N/A - Indicator	N/A - Indicator	N/A - Indicator	N/A - Indicator	N/A - Indicator	N/A - Indicator	Per CAEECC Meeting: M&E will develop and field a consistent survey instrument annually.			I
187	N/A - Indicator	N/A - Indicator	N/A - Indicator	N/A - Indicator	N/A - Indicator	N/A - Indicator	N/A - Indicator	C-F: Per CAEECC meeting and ED Numerator: Total IncentiveDenominator: Total Project cost			I
188	N/A	N/A	N/A	N/A	N/A	N/A	N/A				N
189	N/A	N/A	N/A	N/A	N/A	N/A	N/A				N
190	N/A	N/A	N/A	N/A	N/A	N/A	N/A				N

Spreadsheet Index	Baseline Number	2017	Short Term Target 2018	2019	2020	Mid Term Target (2021-2023) Cumulative	Long Term Target (2024-2025) Cumulative	Methodology	Key Definitions	Proxy Explanation	Applies to SCG?
191	N/A	N/A	N/A	N/A	N/A	N/A	N/A				N
192	884,283	815,153	897,547	897,547	901,969	3,050,777	2,387,564	per CEDARS	SoCalGas manually identifies Public accounts by Bill Account IDs for the Public Sector metrics.		Y
193	630,567	567,915	640,026	640,026	643,179	2,175,458	1,702,532	per CEDARS	SoCalGas manually identifies Public accounts by Bill Account IDs for the Public Sector metrics.		Y
194	N/A	N/A	N/A	N/A	N/A	N/A	N/A				N
195	N/A	N/A	N/A	N/A	N/A	N/A	N/A				N
196	N/A	N/A	N/A	N/A	N/A	N/A	N/A				N
197	N/A	N/A	N/A	N/A	N/A	N/A	N/A				N
198	7,687,113	8,570,956	7,802,420	7,802,420	7,840,856	26,520,541	20,755,206	per CEDARS	SoCalGas manually identifies Public accounts by Bill Account IDs for the Public Sector metrics.		Y
199	5,425,342	5,899,598	5,506,722	5,506,722	5,533,849	18,717,431	14,648,424	per CEDARS	SoCalGas manually identifies Public accounts by Bill Account IDs for the Public Sector metrics.		Y
200	5,210	4,770	5,288	5,288	5,314	5,992	7,034	Per CEDARS			Y
201	N/A - Indicator	N/A - Indicator	N/A - Indicator	N/A - Indicator	N/A - Indicator	N/A - Indicator	N/A - Indicator				I
202	N/A - Indicator	N/A - Indicator	N/A - Indicator	N/A - Indicator	N/A - Indicator	N/A - Indicator	N/A - Indicator				I
203	N/A - Indicator	N/A - Indicator	N/A - Indicator	N/A - Indicator	N/A - Indicator	N/A - Indicator	N/A - Indicator	D3 Methodology:Numerator: Total savings claimed for public sector building retrofitsDenominator: Energy usage of buildings that have been retrofitted, per application.	D3 Key Definitions: Project applications are made at the property level (premise ID and service account number) not the building level. "Energy Savings" refers to Annual Net savings, in keeping with ED direction to use Net savings if otherwise not specified (Lifecycle Net).		I
204	N/A - Indicator	N/A - Indicator	N/A - Indicator	N/A - Indicator	N/A - Indicator	N/A - Indicator	N/A - Indicator				I
205	N/A - Indicator	N/A - Indicator	N/A - Indicator	N/A - Indicator	N/A - Indicator	N/A - Indicator	N/A - Indicator				I
206	N/A - Indicator	N/A - Indicator	N/A - Indicator	N/A - Indicator	N/A - Indicator	N/A - Indicator	N/A - Indicator	D5 Methodology: [Numerator] Total downstream savings [Denominator] Total number of service accounts participating. x average square footage of property			I
207	N/A - Indicator	N/A - Indicator	N/A - Indicator	N/A - Indicator	N/A - Indicator	N/A - Indicator	N/A - Indicator				I
208	N/A - Indicator	N/A - Indicator	N/A - Indicator	N/A - Indicator	N/A - Indicator	N/A - Indicator	N/A - Indicator				I
209	N/A - Indicator	N/A - Indicator	N/A - Indicator	N/A - Indicator	N/A - Indicator	N/A - Indicator	N/A - Indicator	Numerator: claimed savings from water/wastewater customersDenominator: No MM gallons of flow data available. Propose study to collect and baseline.			I
210	2.0%	1.3%	2.1%	1.4%	2.2%	1.8%	3.1%	P1 Methodology: Numerator: Number of downstream participating (service accounts) Denominator: total number of (service accounts) in the sector.	Participation is defined as the first instance of participation, should a customer participate more than once or participate in multiple programs in the calendar year. PAs also need to have enough information about a customer to determine if the customer is in the eligible population and service territory.		Y

Spreadsheet Index	Baseline Number	2017	Short Term Target 2018	2019	2020	Mid Term Target (2021-2023) Cumulative	Long Term Target (2024-2025) Cumulative	Methodology	Key Definitions	Proxy Explanation	Applies to SCG?
211	N/A - Indicator	N/A - Indicator	N/A - Indicator	N/A - Indicator	N/A - Indicator	N/A - Indicator	N/A - Indicator	P2 Methodology: Numerator: square footage of participating service accounts (Avg sqft/project X # of projects)Denominator: Square footage of sector per 2015 CEC analysis (Mohsen Abrishami)			I
212	N/A - Indicator	N/A - Indicator	N/A - Indicator	N/A - Indicator	N/A - Indicator	N/A - Indicator	N/A - Indicator	No MM gallons of flow data available. Propose a study to collect and baseline.			I
213	N/A	N/A	N/A	N/A	N/A	N/A	N/A				N
214	N/A	N/A	N/A	N/A	N/A	N/A	N/A				N
215	0.59	0.32	0.59	0.59	0.59	0.59	0.59	Per CEDARS	None		Y
216	N/A	N/A	N/A	N/A	N/A	N/A	N/A				N
217	N/A	N/A	N/A	N/A	N/A	N/A	N/A				N
218	0.80	0.50	0.8	0.8	0.8	0.8	0.8	Per CEDARS	None		Y
219	N/A - Indicator	N/A - Indicator	N/A - Indicator	N/A - Indicator	N/A - Indicator	N/A - Indicator	N/A - Indicator	P-F2 Method: Total amount loaned through PA programs	Define: "Total program backed financing…requiring repayment" = total loan amount		I
220	3.4%	3.5%	3.6%	3.6%	3.6%	4.0%	4.5%		Def: “current” = “within calendar year”		Y
221	106	107	105	104	104	101	95	Method (ED Okay)Numerator: Total sector-level energy use, from PA billing dataDenominator: Number of public sector accounts * Avg Sqft			Y
222	N/A - Indicator	N/A - Indicator	N/A - Indicator	N/A - Indicator	N/A - Indicator	N/A - Indicator	N/A - Indicator	Numerator: Total square footage of public buildings benchmarked within calendar year, in Portfolio ManagerDenominator: Total square footage of all benchmarked Public sector buildings, in Portfolio Manager			I
223	N/A	N/A	N/A	N/A	N/A	N/A	N/A				N
224	N/A	N/A	N/A	N/A	N/A	N/A	N/A				N
225	N/A	N/A	N/A	N/A	N/A	N/A	N/A				N
226	N/A	N/A	N/A	N/A	N/A	N/A	N/A				N
227	4,579,095	1,429,754	3,004,424	4,693,572	4,808,049	15,111,012	13,737,284	per CEDARS	None		Y
228	2,372,078	821,624	1,596,851	2,431,380	2,490,682	7,827,857	7,116,234	per CEDARS	None		Y
229	N/A	N/A	N/A	N/A	N/A	N/A	N/A				N
230	N/A	N/A	N/A	N/A	N/A	N/A	N/A				N
231	N/A	N/A	N/A	N/A	N/A	N/A	N/A				N

Spreadsheet Index	Baseline Number	2017	Short Term Target 2018	2019	2020	Mid Term Target (2021-2023) Cumulative	Long Term Target (2024-2025) Cumulative	Methodology	Key Definitions	Proxy Explanation	Applies to SCG?
232	N/A	N/A	N/A	N/A	N/A	N/A	N/A				N
233	42,317,801	19,790,562	42,317,801	43,375,746	44,433,691	139,648,743	126,953,403	per CEDARS	None		Y
234	23,612,963	11,318,758	23,612,963	24,203,287	24,793,611	77,922,776	70,838,888	per CEDARS	None		Y
235	21,329	8,590	21,329	21,862	22,395	23,462	31,994	Per CEDARS			Y
236	0.13%	0.08%	0.13%	0.13%	0.13%	0.14%	0.19%	P1 Methodology: Numerator: Number of downstream participating (service accounts) Denominator: total number of (service accounts) in the sector.	Participation is defined as the first instance of participation, should a customer participate more than once or participate in multiple programs in the calendar year. PAs also need to have enough information about a customer to determine if the customer is in the eligible population and service territory.		Y
237	1.02%	0.78%	1.02%	1.04%	1.07%	1.12%	1.52%	P1 Methodology: Numerator: Number of downstream participating (service accounts) Denominator: total number of (service accounts) in the sector.	Participation is defined as the first instance of participation, should a customer participate more than once or participate in multiple programs in the calendar year. PAs also need to have enough information about a customer to determine if the customer is in the eligible population and service territory.		Y
238	4.6%	3.2%	4.55%	4.67%	4.78%	5.01%	6.83%	P1 Methodology: Numerator: Number of downstream participating (service accounts) Denominator: total number of (service accounts) in the sector.	Participation is defined as the first instance of participation, should a customer participate more than once or participate in multiple programs in the calendar year. PAs also need to have enough information about a customer to determine if the customer is in the eligible population and service territory.		Y
239	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 Industrial participants (by service account) that had not received a downstream incentive for the past 3 years (from date of incentive payment)Denominator: Total number of Large Industrial service accounts in the sector/segment	PAs will use PA-specific definition for S, M, & L customers, because BP strategies were developed for customers segmented by those definitions.		I
240	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 service account) that had not received a downstream incentive for the past 3 years (from date of incentive payment)Denominator: Total number of Medium Industrial service accounts in the sector/segment	PAs will use PA-specific definition for S, M, & L customers, because BP strategies were developed for customers segmented by those definitions.		I
241	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 service account) that had not received a downstream incentive for the past 3 years (from date of incentive payment)Denominator: Total number of Small Industrial service accounts in the sector/segment	PAs will use PA-specific definition for S, M, & L customers, because BP strategies were developed for customers segmented by those definitions.		I
242	N/A	N/A	N/A	N/A	N/A	N/A	N/A				N
243	N/A	N/A	N/A	N/A	N/A	N/A	N/A				N
244	0.28	0.35	0.28	0.28	0.28	0.28	0.28	Per CEDARS	None		Y
245	N/A	N/A	N/A	N/A	N/A	N/A	N/A				N
246	N/A	N/A	N/A	N/A	N/A	N/A	N/A				N
247	0.42	0.44	0.42	0.42	0.42	0.42	0.42	Per CEDARS	None		Y
248	N/A	N/A	N/A	N/A	N/A	N/A	N/A				N
249	N/A	N/A	N/A	N/A	N/A	N/A	N/A				N
250	N/A	N/A	N/A	N/A	N/A	N/A	N/A				N

Spreadsheet Index	Baseline Number	Short Term Target 2017	2018	2019	2020	Mid Term Target (2021-2023) Cumulative	Long Term Target (2024-2025) Cumulative	Methodology	Key Definitions	Proxy Explanation	Applies to SCG?
251	N/A	N/A	N/A	N/A	N/A	N/A	N/A				N
252	0.64%	0.20%	0.64%	0.63%	0.61%	0.58%	0.55%	S2 Methodology:Numerator = Metric C1 Denominator = Total sectoral usage, from PA billing database	Define: "Reduction in consumption" = energy savings.		Y
253	3.32%	1.62%	3.32%	3.23%	3.15%	2.98%	2.82%	S2 Methodology:Numerator = Metric C1 Denominator = Total sectoral usage, from PA billing database	Define: "Reduction in consumption" = energy savings.		Y
254	N/A	N/A	N/A	N/A	N/A	N/A	N/A				N
255	N/A	N/A	N/A	N/A	N/A	N/A	N/A				N
256	N/A	N/A	N/A	N/A	N/A	N/A	N/A				N
257	N/A	N/A	N/A	N/A	N/A	N/A	N/A				N
258	5.94%	2.83%	5.94%	5.79%	5.64%	5.35%	5.05%	S2 Methodology:Numerator = Metric C1 Denominator = Total sectoral usage, from PA billing database	Define: "Reduction in consumption" = energy savings.		Y
259	3.32%	1.62%	3.32%	3.23%	3.15%	2.98%	2.82%	S2 Methodology:Numerator = Metric C1 Denominator = Total sectoral usage, from PA billing database	Define: "Reduction in consumption" = energy savings.		Y
260	N/A	N/A	N/A	N/A	N/A	N/A	N/A				N
261	N/A	N/A	N/A	N/A	N/A	N/A	N/A				N
262	N/A	N/A	N/A	N/A	N/A	N/A	N/A				N
263	N/A	N/A	N/A	N/A	N/A	N/A	N/A				N
264	655,844	1,371,872	655,844	672,240	688,636	2,164,286	1,508,442	per CEDARS	None		Y
265	400,312	889,092	400,312	410,320	420,328	1,321,031	920,719	per CEDARS	None		Y
266	N/A	N/A	N/A	N/A	N/A	N/A	N/A				N
267	N/A	N/A	N/A	N/A	N/A	N/A	N/A				N
268	N/A	N/A	N/A	N/A	N/A	N/A	N/A				N
269	N/A	N/A	N/A	N/A	N/A	N/A	N/A				N
270	3,437,678	8,648,090	3,437,678	3,523,620	3,609,562	11,344,339	7,906,660	per CEDARS	None		Y
271	2,091,128	5,583,216	2,091,128	2,143,407	2,195,685	6,900,724	4,809,595	per CEDARS	None		Y
272	3,953	8,177	3,953	4,052	4,151	4,348	4,546	Per CEDARS			Y

Spreadsheet Index	Baseline Number	2017	Short Term Target 2018	2019	2020	Mid Term Target (2021-2023) Cumulative	Long Term Target (2024-2025) Cumulative	Methodology	Key Definitions	Proxy Explanation	Applies to SCG?
273	5.1%	7.7%	5.1%	5.2%	5.3%	5.5%	5.6%	P1 Methodology: Numerator: Number of downstream participating (by bill accounts) Denominator: total number of accounts in the agricultural sector.	Participation is defined as the first instance of participation, should a customer participate more than once or participate in multiple programs in the calendar year. PAs also need to have enough information about a customer to determine if the customer is in the eligible population and service territory.		Y
274	1.2%	0.7%	1.2%	1.2%	1.3%	1.3%	1.4%	P1 Methodology: Numerator: Number of downstream participating (by bill accounts) Denominator: total number of accounts in the agricultural sector.	Participation is defined as the first instance of participation, should a customer participate more than once or participate in multiple programs in the calendar year. PAs also need to have enough information about a customer to determine if the customer is in the eligible population and service territory.		Y
275	0.00%	0.00%	1.2%	1.2%	1.3%	1.3%	1.4%	P1 Methodology: Numerator: Number of downstream participating (by bill accounts) Denominator: total number of accounts in the agricultural sector.	Participation is defined as the first instance of participation, should a customer participate more than once or participate in multiple programs in the calendar year. PAs also need to have enough information about a customer to determine if the customer is in the eligible population and service territory.		Y
276	N/A	N/A	N/A	N/A	N/A	N/A	N/A				N
277	N/A	N/A	N/A	N/A	N/A	N/A	N/A				N
278	0.32	0.34	0.32	0.32	0.32	0.32	0.32	Per CEDARS	None		Y
279	N/A	N/A	N/A	N/A	N/A	N/A	N/A				N
280	N/A	N/A	N/A	N/A	N/A	N/A	N/A				N
281	0.44	0.48	0.44	0.44	0.44	0.44	0.44	Per CEDARS	None		Y
282	N/A	1889	N/A	N/A	N/A	N/A	N/A				N
283	29	42	26	26	30	100	65	EM&V study	2018-2025 consistent with adopted goals from D.17-09-025, Tables 1, 2, and 3, p. 37-39; 2016 from CEDARS (spillover not included). Values summed across all four IOUs. "Savings" is defined as Net First year savings.		Y
284	N/A	346	N/A	N/A	N/A	N/A	N/A				N
285	12	23	4	4	4	12	12	Measures supported by CASE	Baseline and targets for measures supported are for 3 year cycle rather than annual, but short term is divided into annual per ED request		Y
286	12	0	4	4	4	12	12	Measures adopted by CEC	Baseline and targets for measures supported are for 3 year cycle rather than annual, but short term is divided into annual per ED request		Y
287	5	5	3	3	4	10	10	T-20 measures supported by CASE	Baseline is annual. Targets for measures supported are for 3 year cycle rather than annual. 2017 chosen as baseline since 2016 was zero. Short-term is divided into annual per ED request		Y
288	4	0	3	3	4	10	10	Measures adopted by CEC	Baseline and targets for measures supported are for 3 year cycle rather than annual, but short term is divided into annual per ED request		Y
289	22	7	7	7	7	20	20	Standards adopted	Baselines and targets are annual. Any federal standards based upon Title 20 that were adopted will still be included in the federal count.		Y
290	100%	100%	100%	100%	100%	100%	100%	# IOUs supported ÷ # DOE adopted	Baselines and targets are annual.		Y
291	6	4	5	5	5	5	5	Reach Code ordinances implemented	Targets are total for a three-year Title 24 code cycle. Jurisdictions having multiple reach codes will be counted by reach code rather than by jurisdiction. Accomplishments will be reported from the CEC Reach Codes website (http://www.energy.ca.gov/title24/2013standards/ordinances/).		Y
292	138	86	28	28	29	85	85	Number of training activities per year	118 live training sessions and 20 webinars in 2017; short, mid, and long-term targets are annual		Y

Spreadsheet Index	Baseline Number	2017	Short Term Target 2018	2019	2020	Mid Term Target (2021-2023) Cumulative	Long Term Target (2024-2025) Cumulative	Methodology	Key Definitions	Proxy Explanation	Applies to SCG?
293	3600	2,593	500	500	500	1500	1500	Number of participants per year	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 (i.e., building officials, builders, architects, HERS raters) and target size of each segment will be provided during first metrics reporting.		Y
294	20%	19%	20%	20%	20%	20%	20%	Knowledge score	Code compliance knowledge increase will be tested via pre and post training questionaires. Surveys will be conducted for training that lasts longer than three hours (in order to preserve time for instruction in shorter training sessions). Questionaires will be made available during the first metrics reporting.		Y
295	N/A	N/A	N/A	N/A	N/A	N/A	N/A				Y
296	N/A - Indicator	N/A - Indicator	N/A - Indicator	N/A - Indicator	N/A - Indicator	N/A - Indicator	N/A - Indicator				I
297	N/A - Indicator	N/A - Indicator	N/A - Indicator	N/A - Indicator	N/A - Indicator	N/A - Indicator	N/A - Indicator				I
298	N/A - Indicator	N/A - Indicator	N/A - Indicator	N/A - Indicator	N/A - Indicator	N/A - Indicator	N/A - Indicator				I
299	N/A - Indicator	N/A - Indicator	N/A - Indicator	N/A - Indicator	N/A - Indicator	N/A - Indicator	N/A - Indicator				I
300	N/A - Indicator	N/A - Indicator	N/A - Indicator	N/A - Indicator	N/A - Indicator	N/A - Indicator	N/A - Indicator				I
301	N/A	N/A	4	4	4	12	8	Collaboration agreements are not required.	"Collaborations" mean sharing mutually-beneficial resources such as training materials, expertise, and marketing/outreach tactics that help achieve WE&T goals and outcomes and that support the collaborating organizations' goals and objectives.		Y
302	Residential: 5700 Non-Res: 4700 TOTAL: 10,400	Residential: 5364 Non-Res: 4236	9,000	8,000	7,000	21,000	14,000	Report from class registration database. Per year.	"Sector" refers to: a. Residential versus non-residential b. Energy efficiency training topic area (e.g., Lighting, HVAC, agriculture) "Participants" means aggregate class attendance, meaning that one person attending two classes throughout the year would qualify as two participants. Please note that the IOUs began using a standard categorization of training topic areas in 2018.		Y
303	9%	2%	10%	10%	10%	10%	10%	Numerator: Report from class registration database. Denominator: Advanced Energy Economy Institute (AEEI) report finding: "Energy Efficiency accounts for the largest share of advanced energy jobs in California. About six in 10 advanced energy workers are employed in the Energy Efficiency sector; these firms support over 321,000 jobs." Assume advanced Energy Efficiency jobs are commiserate with population for each PA territory.	"Participation" means unique participants, meaning that one person attending two classes throughout the year would be counted as one participant. "Curriculum" refers to the portfolio of training programs and training materials offered by WE&T "Eligible target population" refers to the energy efficiency labor workforce within each PA's service territory based on the proportion of the IOU's territory population compared to that of California's population.		Y

Spreadsheet Index	Baseline Number	2017	Short Term Target 2018	2019	2020	Mid Term Target (2021-2023) Cumulative	Long Term Target (2024-2025) Cumulative	Methodology	Key Definitions	Proxy Explanation	Applies to SCG?
304	65%	0.6	65%	65%	65%	65%	65%	Report of provided zip codes from class registration database cross-referenced with the list of "disadvantaged worker" zip codes. Please note that these zip codes are a mixture of home and work addresses. By the end of 2018, IOUs will specifically request participants' home zip codes.	"Disadvantaged Worker" means a worker that (1) has a referral from a collaborating community-based organization (CBO), state agency, or workforce investment board; or (2) lives in a ZIP code that is in the top 25% in one or more of the five socioeconomic indicators as defined in the California Office of Environmental Health Hazard Assessment's CalEnviroScreen Tool. These socioeconomic indicators are educational attainment, housing burden, linguistic isolation, poverty, and unemployment. "Participant" means a unique participant, meaning that one person attending two classes throughout the year would be counted as one attendee.		Y
305	0	0	5%	5%	5%	15%	30%	Disadvantaged worker tracking is currently not required by PA contract terms and conditions.	*Applies only to programs that install, modify, repair, or maintain EE equipment where the incentive is paid to an entity other than a manufacturer, distributor, or retailer of equipment. This applicability standard is adopted from the language the July 9th ruling on workforce standards. It excludes contracts such as those for upstream incentives, Codes and Standards, and mid-stream distributor programs. "Demonstrated commitment" means that the vendor submits a plan describing how the program will provide disadvantaged workers with improved access to career opportunities in the energy efficiency industry, that they regularly report the percentage of their workforce qualifying as "disadvantaged", and that they have long-term targets for the percentage of their workforce qualifying as "disadvantaged". See "Disadvantaged worker" above.		Y
306	N/A	N/A	N/A	N/A	N/A	N/A	N/A	CWR program does not yet exist.	N/A		Y
307	N/A	N/A	6 TPMs total*	tbd TPMs*	tbd TPMs*	TBD	TBD	Data for this metric will be gathered from 3P TPM Implementers annually.	1) Technology priority maps (TPMs) are defined in the Business Plan 2) Technology-focused pilot: See ETP-M7		Y
308	N/A	N/A	3 TPMs total*	tbd TPMs*	tbd TPMs*	TBD	TBD	Data for this metric will be gathered from 3P TPM Implementers annually.	1) Technology priority maps (TPMs) are defined in the Business Plan		Y
309	61 projects	53 projects	61 projects total*	tbd projects*	tbd projects*	TBD	TBD	Data for this metric will be gathered from 3P TPM Implementers annually.	1) Technology priority maps (TPMs) are defined in the Business Plan 2) Projects are considered "initiated" when project budget has been approved and funding allocated.		Y
310	5	5	5 events total*	tbd events*	tbd events*	TBD	TBD	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.	1) "Technology developers" – Any organization or company that develops energy efficiency and demand response technology suitable for inclusion in PA incentive programs 2) "Events" – ET Summit, webinars, and in-person meetings, as proposed by ETP implementers.		Y
311	See ETP-M4	See ETP-M4	See ETP-M4	See ETP-M4	See ETP-M4	TBD	TBD	Each ETP event will provide data for ETP-M4 and ETP-M5 simultaneously.**Data for this metric will be gathered from 3P TPM Implementers annually based on methodology to be determined.	1) "Technology developers" – Any organization or company that develops energy efficiency and demand response technology suitable for inclusion in PA incentive programs. 2) "Events" – ET Summit, webinars, and in-person meetings, as proposed by ETP implementers.		Y
312	N/A	N/A	2 total*	tbd*	tbd*	TBD	TBD	ETP-M6 metric is a subset of ETP-M7 and counted towards ETP-M7 targets. 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.		Y

Spreadsheet Index	Baseline Number	2017	Short Term Target 2018	2019	2020	Mid Term Target (2021-2023) Cumulative	Long Term Target (2024-2025) Cumulative	Methodology	Key Definitions	Proxy Explanation	Applies to SCG?
313	N/A	N/A	3 total*	tbd*	tbd*	TBD	TBD	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 range of high-impact technologies through studies, and subsequently breaking down identified barriers in collaboration with other relevant programs . 2) "Technology-focused Pilot"- Pilots that have been proposed by 3Ps in response to PA needs and that have been approved through the existing ED Ideation Process. These includes TFPs conducted in cooperation with other programs.		Y
314	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, 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 evaluation contractors. ED evaluators can make recommendations on what suitable targets would be. ETP Tracking Metrics 1 – 5 need to be determined at the same time as part of calculating savings (ETP-T5), and because ETP impact and savings are involved, ED evaluators need to make these determinations. 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 ETP-M1 through ETP-M7 in the table titled "Emerging Technologies Metrics" in Attachment A of D.18-05-041. PAs had proposed that tracking metrics have no targets in the July 14, 2017 metrics filing, however the commission ruled that these tracking metrics must have targets.		Y
315	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, 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 evaluation contractor. ETP Tracking Metrics 1 – 5 need to be determined at the same time as part of calculating savings (ETP-T5), and because ETP impact and savings are involved, ED evaluators need to make these determinations. 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 ETP-M1 through ETP-M7 in the table titled "Emerging Technologies Metrics" in Attachment A of D.18-05-041. PAs had proposed that tracking metrics have no targets in the July 14, 2017 metrics filing, however the commission ruled that these tracking metrics must have targets.		Y
316	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, 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 evaluation contractor.	ETP-T1 through ETP -T8 are in a table titled "Emerging Technologies Tracking (Reporting)" and are separate from the metrics ETP-M1 through ETP-M7 in the table titled "Emerging Technologies Metrics" in Attachment A of D.18-05-041. PAs had proposed that tracking metrics have no targets in the July 14, 2017 metrics filing, however the commission ruled that these tracking metrics must have targets.		Y
317	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, 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 evaluation contractor. ETP Tracking Metrics 1 – 5 need to be determined at the same time as part of calculating savings (ETP-T5), and because ETP impact and savings are involved, ED evaluators need to make these determinations. Baselines will not be available until then. PAs will work with ED to support matching 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 ETP-M1 through ETP-M7 in the table titled "Emerging Technologies Metrics" in Attachment A of D.18-05-041. PAs had proposed that tracking metrics have no targets in the July 14, 2017 metrics filing, however the commission ruled that these tracking metrics must have targets.		Y
318	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, 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 evaluation contractor. ETP Tracking Metrics 1 – 5 need to be determined at the same time as part of calculating savings (ETP-T5), and because ETP impact and savings are involved, ED evaluators need to make these determinations. 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 ETP-M1 through ETP-M7 in the table titled "Emerging Technologies Metrics" in Attachment A of D.18-05-041. PAs had proposed that tracking metrics have no targets in the July 14, 2017 metrics filing, however the commission ruled that these tracking metrics must have targets. ETP is a non-resource program and does not make savings claims.		Y
319	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, 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 evaluation contractor. ETP Tracking Metrics 1 – 5 need to be determined at the same time as part of calculating savings (ETP-T5), and because ETP impact and savings are involved, ED evaluators need to make these determinations. 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 ETP-M1 through ETP-M7 in the table titled "Emerging Technologies Metrics" in Attachment A of D.18-05-041. PAs had proposed that tracking metrics have no targets in the July 14, 2017 metrics filing, however the commission ruled that these tracking metrics must have targets. ETP is a non-resource program and does not make savings claims.		Y
320	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, 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 evaluation contractor. ETP Tracking Metrics 1 – 5 need to be determined at the same time as part of calculating savings (ETP-T5), and because ETP impact and savings are involved, ED evaluators need to make these determinations. 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 ETP-M1 through ETP-M7 in the table titled "Emerging Technologies Metrics" in Attachment A of D.18-05-041. PAs had proposed that tracking metrics have no targets in the July 14, 2017 metrics filing, however the commission ruled that these tracking metrics must have targets. ETP is a non-resource program and does not make savings claims.		Y

Spreadsheet Index	Baseline Number	2017	Short Term Target 2018	2019	2020	Mid Term Target (2021-2023) Cumulative	Long Term Target (2024-2025) Cumulative	Methodology	Key Definitions	Proxy Explanation	Applies to SCG?
321	N/A	N/A	4 cumulative•	TBD	TBD	TBD	TBD	Data for this metric will be gathered from 3P TPM Implementers annually. If ideas are submitted both outside and as part of the TPM-aligned research planning process, it can be reported under both ETP-T6 and ETP-T7. Ideas may be submitted by more than one source and will be counted under each.	ETP-T1 through ETP-T8 are in a table titled "Emerging Technologies Tracking (Reporting)" and are separate from the metrics ETP-M1 through ETP-M7 in the table titled "Emerging Technologies Metrics" in Attachment A of D.18-05-041. PAs had proposed that tracking metrics have no targets in the July 14, 2017 metrics filing, however the commission ruled that these tracking metrics must have targets. "Submitted" refers to an idea submitted through a formal submission process.		Y
322	N/A	N/A	2 cumulative•	TBD	TBD	TBD	TBD	Data for this metric will be gathered from 3P TPM Implementers annually. If ideas are submitted both outside and as part of the TPM-aligned research planning process, it can be reported under both ETP-T6 and ETP-T7. Ideas may be submitted by more than one source and will be counted under each.	ETP-T1 through ETP-T8 are in a table titled "Emerging Technologies Tracking (Reporting)" and are separate from the metrics ETP-M1 through ETP-M7 in the table titled "Emerging Technologies Metrics" in Attachment A of D.18-05-041. PAs had proposed that tracking metrics have no targets in the July 14, 2017 metrics filing, however the commission ruled that these tracking metrics must have targets. "Submitted" refers to an idea submitted through a formal submission process.		Y
323	N/A	N/A	2 cumulative•	TBD	TBD	TBD	TBD	Data for this metric will be gathered from 3P TPM Implementers annually. If ideas are submitted both outside and as part of the TPM-aligned research planning process, it can be reported under both ETP-T6 and ETP-T7. Ideas may be submitted by more than one source and will be counted under each.	ETP-T1 through ETP-T8 are in a table titled "Emerging Technologies Tracking (Reporting)" and are separate from the metrics ETP-M1 through ETP-M7 in the table titled "Emerging Technologies Metrics" in Attachment A of D.18-05-041. PAs had proposed that tracking metrics have no targets in the July 14, 2017 metrics filing, however the commission ruled that these tracking metrics must have targets. "Submitted" refers to an idea submitted through a formal submission process.		Y
324	N/A	N/A	1 cumulative•	tbd*	tbd*	TBD	TBD	Data for this metric will be gathered from 3P TPM Implementers annually. If ideas are submitted both outside and as part of the TPM-aligned research planning process, it can be reported under both ETP-T6 and ETP-T7. Ideas may be submitted by more than one source and will be counted under each.	ETP-T1 through ETP-T8 are in a table titled "Emerging Technologies Tracking (Reporting)" and are separate from the metrics ETP-M1 through ETP-M7 in the table titled "Emerging Technologies Metrics" in Attachment A of D.18-05-041. PAs had proposed that tracking metrics have no targets in the July 14, 2017 metrics filing. "Submitted" refers to an idea submitted through a formal submission process.		Y
325	N/A	N/A	6 cumulative•	tbd*	tbd*	TBD	TBD	Data for this metric will be gathered from 3P TPM Implementers. If ideas are submitted both outside and as part of the TPM-aligned research planning process, it can be reported under both ETP-T6 and ETP-T7. Ideas may be submitted by more than one source and will be counted under each.	ETP-T1 through ETP-T8 are in a table titled "Emerging Technologies Tracking (Reporting)" and are separate from the metrics ETP-M1 through ETP-M7 in the table titled "Emerging Technologies Metrics" in Attachment A of D.18-05-041. PAs had proposed that tracking metrics have no targets in the July 14, 2017 metrics filing, however the commission ruled that these tracking metrics must have targets. "Submitted" refers to an idea submitted through a formal submission process.		Y
326	N/A	N/A	2 cumulative•	tbd*	tbd*	TBD	TBD	Data for this metric will be gathered from 3P TPM Implementers. If ideas are submitted both outside and as part of the TPM-aligned research planning process, it can be reported under both ETP-T6 and ETP-T7. Ideas may be submitted by more than one source and will be counted under each.	ETP-T1 through ETP-T8 are in a table titled "Emerging Technologies Tracking (Reporting)" and are separate from the metrics ETP-M1 through ETP-M7 in the table titled "Emerging Technologies Metrics" in Attachment A of D.18-05-041. PAs had proposed that tracking metrics have no targets in the July 14, 2017 metrics filing, however the commission ruled that these tracking metrics must have targets. "Submitted" refers to an idea submitted through a formal submission process.		Y

Spreadsheet Index	Baseline Number	2017	Short Term Target 2018	2019	2020	Mid Term Target (2021-2023) Cumulative	Long Term Target (2024-2025) Cumulative	Methodology	Key Definitions	Proxy Explanation	Applies to SCG?
327	N/A	N/A	2 cumulative•	TBD	TBD	TBD	TBD	Data for this metric will be gathered from 3P TPM Implementers. If ideas are submitted both outside and as part of the TPM-aligned research planning process, it can be reported under both ETP-T6 and ETP-T7. Ideas may be submitted by more than one source and will be counted under each.	ETP-T1 through ETP-T8 are in a table titled "Emerging Technologies Tracking (Reporting)" and are separate from the metrics ETP-M1 through ETP-M7 in the table titled "Emerging Technologies Metrics" in Attachment A of D.18-05-041. PAs had proposed that tracking metrics have no targets in the July 14, 2017 metrics filing, however the commission ruled that these tracking metrics must have targets. "Submitted" refers to an idea submitted through a formal submission process.		Y
328	N/A	N/A	1 cumulative•	TBD	TBD	TBD	TBD	Data for this metric will be gathered from 3P TPM Implementers. If ideas are submitted both outside and as part of the TPM-aligned research planning process, it can be reported under both ETP-T6 and ETP-T7. Ideas may be submitted by more than one source and will be counted under each.	ETP-T1 through ETP-T8 are in a table titled "Emerging Technologies Tracking (Reporting)" and are separate from the metrics ETP-M1 through ETP-M7 in the table titled "Emerging Technologies Metrics" in Attachment A of D.18-05-041. PAs had proposed that tracking metrics have no targets in the July 14, 2017 metrics filing, however the commission ruled that these tracking metrics must have targets. "Submitted" refers to an idea submitted through a formal submission process.		Y
329	N/A	N/A	3 lists cumulative	3 lists cumulative	2 lists cumulative	TBD	TBD	Data for this metric will be gathered from 3P TPM Implementers. An ETP project may align with multiple statewide goals and will be listed under each goal. **	ETP-T1 through ETP-T8 are in a table titled "Emerging Technologies Tracking (Reporting)" and are separate from the metrics ETP-M1 through ETP-M7 in the table titled "Emerging Technologies Metrics" in Attachment A of D.18-05-041. PAs had proposed that tracking metrics have no targets in the July 14, 2017 metrics filing , however the commission ruled that these tracking metrics must have targets. The "statewide goals" will be tracked will be developed and updated in collaboration with ED as needed. Projects are considered "initiated" when project budget has been approved and funding allocated.		Y

Southern California Gas

EE Sector Metrics with Targets - Definitions

	Term	Definition
1	Bill Account	A bill account is a system generated number that uniquely identifies a billable entity
2	Eligible Population	Total number of bill accounts in sector/segment
3	Disadvantaged Communities	D.18-05-041: DAC = Bill accounts in census tracts corresponding to census tracts in the top quartile of CalEnviroScreen 3.0 scores.
4	Hard-to-Reach	D p. 43 - Resolution G-3497, modified to "include disadvantaged communities (as designated by CalEPA) in the geographic criteria for hard to reach customers." with modification. Geographically, SoCalGas' hard-to-reach areas are disadvantaged communities other than the Greater Los Angeles Area (Los Angeles, Orange, San Bernardino, Riverside, and Ventura counties)
5	MT CO2eq	Conversion of kWh and Therms to MTCO2eq as reported by CEDARS
6	Levelized Cost	PAC and TRC cost (excluding C&S), as output from the CET Tool
7	Residential Single Family	Bill account on residential (GR) rates, with dwelling code of single family home or single family dwelling.
8	Participant	Identified by a bill account number, midsteam and upstream equipment deliveries who participanted in a ratepayer funded energy efficiency intervention
9	Household	Residential bill account
10	Opt-In/Opt-Out Program	Opt-in programs are voluntary and participation is at the discretion of the individual and/or entity. Opt-out programs are those where individuals and/or entities are defaulted into with their option to opt-out. Opower/HER is the only Opt-Out program.
11	Residential Multifamily	MF designation based on dwelling codes in bill accounts. Number of units = 2 or more.
12	Project	Energy efficiency efforts where the customer financial incentives and energy savings are determined using a site-specific analysis of the customer's existing and proposed equipment and/or building components
13	Building	Per the residential sector, any MF structure used or intended to support or shelter any use or occupancy, that receives energy from a utility
14	Property	Per the residential sector, a property is a single residence stand-alone or inside a MF building that receives energy from a utility
15	Energy Savings per Square Foot (depth of intervention)	Sq footage of EE-addressed space, as defined by individual implementation plans
16	In Unit	A multi-family unit. Designated by a unique billing account under rate GR and location code (LC_CD) = B, C, D (>= 2 units)
17	Common Area	AL 3826. Natural gas supplied through a single meter to common facilities only, will be billed under rates GM-C, GM-BC or GM-BCC, as appropriate.
18	Master Metered	AL 3826. Natural gas procurement for MF accomodations supply Baseline uses through one meter. Such as service will be billed under rates designated for GM-E, GM-BE or GM-BEC, as appropriate.
19	Unit	Bill accounts within MF property. Non-overlapping with Master Metered.
20	Square Feet of Eligible Population (Residential)	Esimated from RASS, averaging 935 sq. ft. for an invidual multi-family unit; 1,000 sq. ft./per unit per multi-family building.
21	Square Feet of Eligible Population (Commercial & Public)	From Commercial Saturation Study (CalmacID CPU0077.01). SoCalGas assigns estimated average indoor square foot for each of the 2-digit NAICS codes per account and per eligible population.
22	Public Sector	Per SDG&E BP application (p. 102), "the public sector came to be defined as the group of customers that are tax-payer funded, have political mandates, and that must go through a public budgeting and decision-making process." Local Gov't: Cities, Counties, Special Districts, Solid Waste Facilities, Water / Wastewater Facilities, Hospitals, Correctional Facilities. State: State Buildings, State Park Facilities, Hospitals, Correctional Facilities. Federal: Federal Buildings, US Postal Service, Hospitals, Ports, Military Bases. Native American Tribes Public Education (double check): K-12 Schools (Schools, Admin Buildings), Higher Education (e.g., UC/CSU), community colleges Special exceptions on a case by case basis, determined by PAs based on customer of record.
23	Facility	A structure or collection of structures, covered or uncovered, that typically encompass processing or production capabilities
24	Project Building Floor Plan Area	Sq footage of EE-addressed space, as defined by individual implementation plans
25	Program-Backed Financing	Loan amount
26	Water/Waste Water Facility	A structure or collection of structures, covered or uncovered, that encompass water/waste water treatment processes. EE savings are intended to be captured at the facility level.
27	Annual Flow	Flow (in millions of gallons per day) of water/wastewater as reported by the water/waste water facility
28	Current Benchmark	Benchmarked via Portfolio Manager in the calendar year
29	Investments made by ratepayers and private capital	Project incentive vs project cost
30	Customer Satisfaction	Per consistent survey, to be developed
31	Trade Ally Satisfaction	Per consistent survey, to be developed
32	Customer Size - Small	A bill account with < 10,000 therms per year
33	Customer Size - Medium	A bill account between 10,000 and 50,000 therms per year
34	Customer Size - Large	A bill account with > 50,000 therms per year
35	Energy Use Intensity	kBTU/sq ft, consistent with Energy Star Portfolio Manager definition (https://www.energystar.gov/buildings/facility-owners-and-managers/existing-buildings/use-portfolio-manager/understand-metrics/what-energy)

Inputs and Calculations
By Sectors

August 6, 2018

Portfolio - All Sectors

SoCalGas

August 6, 2018

SoCalGas Portfolio Level (PL) - All Sectors

Metric Type	Final Common Metric or Indicator	Index	2016	2017	Formula (Numerator/Denominator)		2016
	Electric, and Demand Savings (Gross and Net) for the Portfolio						
S1: Energy Savings	Gross Therm for Portfolio Level	5	38,456,156	39,877,543			
	Net Therm for Portfolio Level	6	32,419,727	35,991,671			
	Gross LifeCycle Therm for Portfolio Level	11	480,467,409	522,106,297			
	Net LifeCycle Therm Portfolio Level	12	422,174,997	475,290,840			
	First Year Annual and Lifecycle ExAnte(Pre-Evaluation) Gas, Electric, and Demand Savings (Gross and Net) in Disadvantages Communities						
S3: DAC Savings	Gross Therm for DAC	17	4,336,520	2,496,127			
	Net Therm for DAC	18	2,665,824	1,580,862			
	Gross LifeCycle Therm for DAC	23	56,204,869	28,735,742			
	Net LifeCycle Therm for DAC	24	33,996,508	17,940,391			
	First Year Annual and Lifecycle ExAnte(Pre-Evaluation) Gas, Electric, and Demand Savings(Gross and Net) in Hard-to-Reach Markets						
S4: Hard to reach markets	Gross Therm for HTR	29	5,427,644	4,382,279			
	Net Therm for HTR	30	3,331,000	2,781,629			
	Gross LifeCycle Therm for HTR	35	66,223,534	46,307,998			
	Net LifeCycle Therm for HTR	36	40,097,051	28,839,247			
	Levelized Cost of Energy Efficiency per Therm						
Cost per unit saved	Levelized PAC Cost	42	0.43	0.42	**N**	(PAC cost * Gas benefits)/Total Benefits	48,394,327
					D	LifeCycleNetTherm	111,920,132
	Levelized TRC Cost	39	0.71	0.64	**N**	(TRC cost * Gas benefits)/Total Benefits	79,173,600
					D	LifeCycleNetTherm	111,920,132
	Greenhouse Gas (MT CO2) Savings, reported on an annual basis						
GHG	Gross Gas CO2	0	366,401	416,600			

SoCalGas Portfolio Level (PL) - All Sectors

Metric Type	Final Common Metric or Indicator	Index	2016	2017	Formula (Numerator/Denominator)	2016
**Overall Portofilio level therm savings include ESA and C&S						
**Overall portfolio savings = Res-sf, Res-mf, Com, Pub, AG, Ind and C&S; all these sectors include gross, net, lifecycle in the overall portfolio savings						
**Overall all porfilio's TRC and PAC's levelized cost (which ED's common Definition to not include C&S in the TRC and PAC's levelized cost's calculation.						
**CO2 includes at the ClaimID Level						
**OP2 & OP3 overall DAC and HTR savings include: all programs using Census Tract method + 3703 Program activity method which based on Zip Code to identify the DAC & HTR savings						
**RW- ReportingWarehouse, EE Claim Database; CIS-Customer Information System; BA_ID (Service Account)						

SoCalGas Portfolio Level (PL) - All Sectors

Metric Type	Final Common Metric or Indicator	2017
S1: Energy Savings	**Electric, and Demand Savings (Gross and Net) for the Portfolio**	
	Gross Therm for Portfolio Level	
	Net Therm for Portfolio Level	
	Gross LifeCycle Therm for Portfolio Level	
	Net LifeCycle Therm Portfolio Level	
S3: DAC Savings	**First Year Annual and Lifecycle ExAnte(Pre-Evaluation) Gas, Electric, and Demand Savings (Gross and Net) in Disadvantages Communities**	
	Gross Therm for DAC	
	Net Therm for DAC	
	Gross LifeCycle Therm for DAC	
	Net LifeCycle Therm for DAC	
S4: Hard to reach markets	**First Year Annual and Lifecycle ExAnte(Pre-Evaluation) Gas, Electric, and Demand Savings(Gross and Net) in Hard-to-Reach Markets**	
	Gross Therm for HTR	
	Net Therm for HTR	
	Gross LifeCycle Therm for HTR	
	Net LifeCycle Therm for HTR	
Cost per unit saved	**Levelized Cost of Energy Efficiency per Therm**	
	Levelized PAC Cost	42,169,864 100,131,032
	Levelized TRC Cost	63,796,722 100,131,032
GHG	**Greenhouse Gas (MT CO2) Savings, reported on an annual ba**	
	Gross Gas CO2	

SoCalGas Portfolio Level (PL) - All Sectors

Metric Type	Final Common Metric or Indicator	2017
	**Overall Portofilio level therm savings include ESA and C&S	
	**Overall portfolio savings = Res-sf, Res-mf, Com, Pub, AG, Ind and C&S; all these overall portfolio savings	
	**Overall all porfilio's TRC and PAC's levelized cost (which ED's common Definitic levelized cost's calculation.	
	**CO2 includes at the ClaimID Level	
	**OP2 & OP3 overall DAC and HTR savings include: all programs using Census Trac which based on Zip Code to identify the DAC & HTR savings	
	**RW- ReportingWarehouse, EE Claim Database; CIS-Customer Information Syste	

SoCalGas Portfolio Level (PL) - All Sectors

Metric Type	Final Common Metric or Indicator	Assumptions-Notes
S1: Energy Savings	**Electric, and Demand Savings (Gross and Net) for the Portfolio**	
	Gross Therm for Portfolio Level	RW's Annual therm savings for ClaimID is not null
	Net Therm for Portfolio Level	
	Gross LifeCycle Therm for Portfolio Level	
	Net LifeCycle Therm Portfolio Level	
S3: DAC Savings	**First Year Annual and Lifecycle ExAnte(Pre-Evaluation) Gas, Electric, and Demand Savings (Gross and Net) in Disadvantages Communities**	
	Gross Therm for DAC	RW's Annual Savings ClaimID is not null; Retrieve BA_ID from RW to obtain GNNID from CIS; GNNID in CIS to map Census Tract Code in CIS; Census Tract Code in CIS map to Census Tract Code in DAC list
	Net Therm for DAC	
	Gross LifeCycle Therm for DAC	
	Net LifeCycle Therm for DAC	
S4: Hard to reach markets	**First Year Annual and Lifecycle ExAnte(Pre-Evaluation) Gas, Electric, and Demand Savings(Gross and Net) in Hard-to-Reach Markets**	
	Gross Therm for HTR	RW's Annual Savings ClaimID is not null; Retrieve BA_ID from RW to obtain GNNID from CIS; GNNID in CIS to map Census Tract Code in CIS; Census Tract Code in CIS map to Census Tract Code in HTR list
	Net Therm for HTR	
	Gross LifeCycle Therm for HTR	
	Net LifeCycle Therm for HTR	
Cost per unit saved	**Levelized Cost of Energy Efficiency per Therm**	
	Levelized PAC Cost	CEDAR's CET Annual Report Output file: Numerator=TRC or PAC Cost * Gas Benefit)/Total Benefits
	Levelized TRC Cost	CEDAR's CET Annual Report Output file:Denominator: LifeCycleNetTherm
GHG	**Greenhouse Gas (MT CO2) Savings, reported on an annual ba**	CEDAR's CET Annual Report Output file's GasCO2, ElecCO2 with ClaimIDs (GasCO2+ElecCO2)
	Gross Gas CO2	

SoCalGas Portfolio Level (PL) - All Sectors

Metric Type	Final Common Metric or Indicator	Assumptions-Notes
	**Overall Portofilio level therm savings include ESA and C&S	
	**Overall portfolio savings = Res-sf, Res-mf, Com, Pub, AG, Ind and C&S; all these overall portfolio savings	
	**Overall all porfilio's TRC and PAC's levelized cost (which ED's common Definitic levelized cost's calculation.	
	**CO2 includes at the ClaimID Level	
	**OP2 & OP3 overall DAC and HTR savings include: all programs using Census Trac which based on Zip Code to identify the DAC & HTR savings	
	**RW- ReportingWarehouse, EE Claim Database; CIS-Customer Information Syste	

Residential - Single Family

SoCalGas

August 6, 2018

SoCalGas Residential - Single Family (SF)

Metric Type	Final Common Metric or Indicator	Index	2016	2017	Formula (Numerator/Denominator)	2016
S1: Energy Savings	**First Year Annual and Lifecycle ExAnte(Pre-Evaluation) Gas, Electric, and Demand Savings (Gross and Net) for Single Family Customers**					
	Gross Therm for SF	47	1,963,544	2,469,179		
	Net Therm for SF	48	1,266,929	1,608,285		
	Gross Therm LifeCycle for SF	53	25,538,464	30,293,953		
	Net Therm LifeCycle for SF	54	16,610,078	18,746,836		
GHG	**Greenhouse Gas (MT CO2) Savings, reported on an annual basis**					
	Gross Gas CO2	55	17,000	17,521		
D1: Depth of Interventions	**Average Savings (Therms) per Participant in Opt-in Programs**					
	Net LifeCycle Average Savings - Downstream (Customers)	58	173	154	N Annualized LifeCycleTherm Net Saved (Downstream+DI of 3702 Res-	12,324,106
					D # Participating SF Customers (Downstream+DI of 3702, Res-SF)	71,113
	Net LifeCycle Average Savings - Midstream (Customers)	61	64	48	N Annualized LifeCycleTherm Net Saved by SF Midstream	1,851,854
					D Number of participating SF Customers (Midstream)	29,126
	Net LifeCycle Average Savings - Opt-Out Programs	64	-	-	N Annualized Opt-Out Savings	0
					D # of Opt-Out Participants	0
	Net LifeCycle Average Savings - Upstream (Customers)	67	843	751	N Annualized LifeCycleTherm Net Saved by SF Upstream	2,434,118
					D Number of participating SF Customers (Upstream)	2,887
P1: Penetration of energy efficiency programs in the eligible market	**Participation Relative to Eligible Population for SF sector**					
	Percent of participation relative to eligible population	68	2.8%	3.4%	N Participants (Upstream+Midstream+Downstream)	103,126
					D December Total Number of SF Customers	3,664,679
	Percent of participation in Disadvantaged Communities	69	4.6%	4.4%	N + Midstream's Store Zip map to Census Tract)	42,475
					D December Total Number of SF Customers in DAC	921,758
	Percent of participation in Hard to Reach Communities	70	3.9%	3.6%	N + Midstream's Store Zip map to Census Tract)	48,224
					D December Total Number of SF Customers in HTR	1,228,475

SoCalGas Residential - Single Family (SF)

Metric Type	Final Common Metric or Indicator	Index	2016	2017	Formula (Numerator/Denominator)		2016
Cost per unit saved	**Levelized Cost of Energy Efficiency per Therm for Single Family**						
	Levelized PAC Cost	73	0.74	0.94	**N**	(PAC cost * Gas benefits)/Total Benefits	12,290,924
					D	LifeCycleNetTherm	16,610,078
	Levelized TRC Cost	76	1.70	1.52	**N**	(TRC cost * Gas benefits)/Total Benefits	28,281,745
					D	LifeCycleNetTherm	16,610,078
Energy Intensity Indicator	**Average Energy Use Intensity of Single Family Homes (Not adjusted)**						
	Annual usage for Single Family per household per KBtu/Sqft	IN	20	21	**N**	Annual therm Usage for SF HH Accounts	1.50E+09
					D	Total Sqft SF Households	7.33E+09

**For SF1- Single Family Therm Savings exclude missing BA_IDs for SF Customers (BA_ID level) because participant counts are based on the BA_ID(service account) level
**For SF1- Exclude Mobile Home for Res
**CO2 includes at the ClaimID Level
Numerator count of SF Participants:
**For SF3-1 (Downstream)-Count of Participants is not program by program activity; Count of Participant is using BA_IDs level; if an BA_ID account in two diferent programs, count as two participants.
**For SF3-1 (Midstream) POS -3703 - Count of Store's NumUnits (by Payee)
If BA_ID Account in two different programs, count as two participants
**GrossGasCO2 = GrossElecCO2 + GrossGasCO2
SF = 2,000 sqft
MF (individual) = 935 sqft
MF (building/unit) = 1,000 sqft

**For Midstream, 3703 - store portion of the 3703, use the Distributer's zipcodes. All of midstream is assigned to SF.

**Downstream program includes "DeliveryType" of DirInstall & PreRebDown
**Downstream program, use BA_ID to identify participants, HTR ad DAC. For Midstream programs(3703), us Distributor's Zip Codes of Equipment sold (NumOfUnits)
**RW- ReportingWarehouse, EE Claim Database; CIS-Customer Information System; BA_ID (Service Account)

SoCalGas Residential - Single Family (SF)

Metric Type	Final Common Metric or Indicator	Index	2016	2017	2017
S1: Energy Savings	**First Year Annual and Lifecycle ExAnte(Pre-Evaluation) Gas, Electric, and Demand Savings (Gross and Net) for Single Family Customers**				
	Gross Therm for SF	47	1,963,544	2,469,179	
	Net Therm for SF	48	1,266,929	1,608,285	
	Gross Therm LifeCycle for SF	53	25,538,464	30,293,953	
	Net Therm LifeCycle for SF	54	16,610,078	18,746,836	
GHG	**Greenhouse Gas (MT CO2) Savings, reported on an annual basis**				
	Gross Gas CO2	55	17,000	17,521	
D1: Depth of Interventions	**Average Savings (Therms) per Participant in Opt-in Programs**				
	Net LifeCycle Average Savings - Downstream (Customers)	58	173	154	13,250,459 / 85,883
	Net LifeCycle Average Savings - Midstream (Customers)	61	64	48	1,581,875 / 32,665
	Net LifeCycle Average Savings - Opt-Out Programs	64	-	-	0 / 0
	Net LifeCycle Average Savings - Upstream (Customers)	67	843	751	3,914,502 / 5,214
P1: Penetration of energy efficiency programs in the eligible market	**Participation Relative to Eligible Population for SF sector**				
	Percent of participation relative to eligible population	68	2.8%	3.4%	123,762 / 3,683,082
	Percent of participation in Disadvantaged Communities	69	4.6%	4.4%	41,011 / 927,083
	Percent of participation in Hard to Reach Communities	70	3.9%	3.6%	44,757 / 1,235,556

SoCalGas Residential - Single Family (SF)

Metric Type	Final Common Metric or Indicator	Index	2016	2017	2017
Cost per unit saved	**Levelized Cost of Energy Efficiency per Therm for Single Family**				
	Levelized PAC Cost	73	0.74	0.94	17,535,994 18,746,836
	Levelized TRC Cost	76	1.70	1.52	28,552,112 18,746,836
Energy Intensity Indicator	**Average Energy Use Intensity of Single Family Homes (Not adjusted)**				
	Annual usage for Single Family per household per KBtu/Sqft	IN	20	21	1.52E+09 7.37E+09

**For SF1- Single Family Therm Savings exclude missing BA_IDs for SF Customers (BA_ID level) because participant counts are based on the BA_ID(service account) level
**For SF1- Exclude Mobile Home for Res
**CO2 includes at the ClaimID Level
Numerator count of SF Participants:
**For SF3-1 (Downstream)-Count of Participants is not program by program activity; Count of Participant is using BA_IDs level; if an BA_ID account in two diferent programs, count as two participants.
**For SF3-1 (Midstream) POS -3703 - Count of Store's NumUnits (by Payee)
If BA_ID Account in two different programs, count as two participants
**GrossGasCO2 = GrossElecCO2 + GrossGasCO2
SF = 2,000 sqft
MF (individual) = 935 sqft
MF (building/unit) = 1,000 sqft

**For Midstream, 3703 - store portion of the 3703, use the Distributer's zipcodes. All of midstream is assigned to SF.

**Downstream program includes "DeliveryType" of DirInstall & PreRebDown
**Downstream program, use BA_ID to identify participants, HTR ad DAC. For Midstream programs(3703), us Distributor's Zip Codes of Equipment sold (NumOfUnits)
**RW- ReportingWarehouse, EE Claim Database; CIS-Customer Information System; BA_ID (Service Account)

SoCalGas Residential - Single Family (SF)

Metric Type	Final Common Metric or Indicator	Index	2016	2017	Assumptions-Notes
S1: Energy Savings	**First Year Annual and Lifecycle ExAnte(Pre-Evaluation) Gas, Electric, and Demand Savings (Gross and Net) for Single Family Customers**				RW's SFm BldgType + Res Primary Sector's therm savings where ClaimID is not null
	Gross Therm for SF	47	1,963,544	2,469,179	
	Net Therm for SF	48	1,266,929	1,608,285	
	Gross Therm LifeCycle for SF	53	25,538,464	30,293,953	
	Net Therm LifeCycle for SF	54	16,610,078	18,746,836	
GHG	**Greenhouse Gas (MT CO2) Savings, reported on an annual basis**				CEDAR's CET Annual Report Output file's GasCO2, ElecCO2 with ClaimIDs in SFm BldgType and Res PrimarySector
	Gross Gas CO2	55	17,000	17,521	
D1: Depth of Interventions	**Average Savings (Therms) per Participant in Opt-in Programs**				RW's NetLifeCycleTherm Savings with BldgType of SFm and PrimarySector of Res with ClaimID is not Null + DeliveryType of Downstream and DirectInstall
	Net LifeCycle Average Savings - Downstream (Customers)	58	173	154	RW's BldgType of SFm and PrimarySector of Res with ClaimID is not null + DeliveryType of Downstream and DirectInstall where BA_ID counts for Downstream and DirectInstall Count by Payee with NumUnits as each participation.
	Net LifeCycle Average Savings - Midstream (Customers)	61	64	48	All of midstream savings and participants are assigned to SF.
	Net LifeCycle Average Savings - Opt-Out Programs	64	-	-	
	Net LifeCycle Average Savings - Upstream (Customers)	67	843	751	RW's NetLifeCycleTherm Savings with BldgType of SFm and PrimarySector of Res with ClaimID is not null + DeliveryType of Upstream RW's BldgType of SFm and PrimarySector of Res with ClaimID is not null + DeliveryType of Upstream where BA_ID =counts ((Upstream-Manufacture, Distributor)
P1: Penetration of energy efficiency programs in the eligible market	**Participation Relative to Eligible Population for SF sector**				
	Percent of participation relative to eligible population	68	2.8%	3.4%	RW's Sum of Downstream, Midstream, and Upstream Participants CIS's Total Number SF Customers
	Percent of participation in Disadvantaged Communities	69	4.6%	4.4%	DAC/HTR Numerators: RW's SFm BldgType + Res Primary Sector + DeliveryType of Downstream's BA_ID (Retrieve BA_ID from RW to obtain GNNID from CIS; GNNID in CIS to map Census Tract Code in CIS; Census Tract Code in CIS map to Census Tract Code in DAC/HTR list) + DirInstall's
	Percent of participation in Hard to Reach Communities	70	3.9%	3.6%	DAC/HTR denominators: CIS's SFm BldgType BA_ID (Retrieve BA_ID from RW to obtain GNNID from CIS; GNNID in CIS to map Census Tract Code in CIS; Census Tract Code in CIS map to Census Tract Code in DAC/HTR list

SoCalGas Residential - Single Family (SF)

Metric Type	Final Common Metric or Indicator	Index	2016	2017	Assumptions-Notes
Cost per unit saved	**Levelized Cost of Energy Efficiency per Therm for Single Family**				
	Levelized PAC Cost	73	0.74	0.94	CEDAR's CET Annual Report Output file: Numerator=TRC or PAC Cost * Gas Benefit)/Total Benefits
	Levelized TRC Cost	76	1.70	1.52	CEDAR's CET Annual Report Output file:Denominator: LifeCycleNetTherm
Energy Intensity Indicator	**Average Energy Use Intensity of Single Family Homes (Not adjusted)**				
	Annual usage for Single Family per household per KBtu/Sqft	IN	20	21	CIS's Annual Usage of SF bill accounts CIS's Number of SF bill accounts * 2,000 sqft per SF HH

**For SF1- Single Family Therm Savings exclude missing BA_IDs for SF Customers (BA_ID level) because participant counts are based on the BA_ID(service account) level
**For SF1- Exclude Mobile Home for Res
**CO2 includes at the ClaimID Level
Numerator count of SF Participants:
**For SF3-1 (Downstream)-Count of Participants is not program by program activity; Count of Participant is using BA_IDs level; if an BA_ID account in two diferent programs, count as two participants.
**For SF3-1 (Midstream) POS -3703 - Count of Store's NumUnits (by Payee)
If BA_ID Account in two different programs, count as two participants
**GrossGasCO2 = GrossElecCO2 + GrossGasCO2
SF = 2,000 sqft
MF (individual) = 935 sqft
MF (building/unit) = 1,000 sqft

**For Midstream, 3703 - store portion of the 3703, use the Distributer's zipcodes. All of midstream is assigned to SF.

**Downstream program includes "DeliveryType" of DirInstall & PreRebDown
**Downstream program, use BA_ID to identify participants, HTR ad DAC. For Midstream programs(3703), us Distributor's Zip Codes of Equipment sold (NumOfUnits)
**RW- ReportingWarehouse, EE Claim Database; CIS-Customer Information System; BA_ID (Service Account)

Residential - Multi-Family

SoCalGas

August 6, 2018

SoCalGas Residential - Multi Family (MF)

Metric Type	Final Common Metric or Indicator	Index	2016	2017	Formula (Numerator/Denominator)	2016
S1: Energy Savings	**First Year Annual and Lifecycle ExAnte(Pre-Evaluation) Gas, Electric, and Demand Savings (Gross and Net) for Multi-family customers (in units, common area, and master metered accounts)**					
	Gross Therm for MF (in Unit)	82	140,697	178,554		
	Net Therm for MF (in Unit)	83	94,726	111,452		
	Gross Therm for MF (Master Metered)	94	1,190,539	565,081		
	Net Therm for MF (Master Metered)	95	834,669	361,725		
	Gross Therm for MF (Common Area)	106	83,699	11,691		
	Net Therm for MF (Common Area)	107	66,296	7,289		
	Gross Therm LifeCycle for MF (in Unit)	88	1,682,187	2,293,520		
	Net Therm LifeCycle for MF (in Unit)	89	1,574,918	1,720,311		
	Gross Therm LifeCycle for MF (Master Metered)	100	10,899,317	3,975,876		
	Net Therm LifeCycle for MF (Master Metered)	101	8,275,483	2,559,625		
	Gross Therm LifeCycle for MF (Common Area)	112	977,601	76,523		
	Net Therm LifeCycle for MF (Common Area)	113	819,327	47,844		
GHG	**Greenhouse Gas (MT CO2) Savings, reported on an annual basis**					
	Gross Gas CO2	114	8,424	5,282		
D4: Depth of Intervention	**Average Savings (Net LifeCycle Therms) for MF (per Participation, per Project(Building), per Sq.Ft)**					
	Net Energy Savings Per Participant (Property)	120	111	155	**N** Annualized LifeCycle Net Therm Saved by MF Participant	1,574,918
					D Total Number MF Participants (GR)	14,251
	Net Energy Savings Per Project (Building)	117	4194	1659	**N** Annualized LifeCycle Net Therm Saved by (GM) MM Participant	8,275,483
					D Total Number MM Participants (GM)	1,973
	Net Energy Savings Per Sq.Ft	123	0.28	0.16	**N** Annualized LifeCycle Net Therm Saved by MF Participant	9,850,401
					D Total Number of participating MF In Total Sq.Ft	34,632,692

SoCalGas Residential - Multi Family (MF)

Metric Type	Final Common Metric or Indicator	Index	2016	2017	Formula (Numerator/Denominator)	2016
P1: Penetration of energy efficiency programs in the eligible marke	**Participant relative to eligible population**					
	Percent of participation relative to eligible population (by BA_	125	0.9%	0.7%	N Number of MF Participant	16,224
					D December Total Number MF Accounts (In Unit, include GR)	1,719,803
	Percent of participation relative to eligible population (by Building, Master Metered)	124	1.7%	1.31%	N Number of Master Metered Participant (GM)	1,973
					D December Total Number MF Accounts (GM Accounts)	118,080
	Percent square feet eligible population (by in unit)	126	0.8%	0.64%	N Number of in unit MF Participant (GR) (Sq.Ft)	13,324,292
					D December Total Number of MF Accounts (Sq.Ft)	1.61E+09
	Percent of participation in Disadvantaged Communities	127	0.50%	0.43%	N Number of MF Participants in DAC	3,044
					D December Number of MF in DAC	609,633
	Percent of participation in Hard to Reach Communities	128	0.49%	0.43%	N Number of MF Participants in HTR	3,383
					D December Number of MF in HTR	687,806
Cost per unit saved	**Levelized Cost Energy Efficiency per Therm for Multi Family**					
	Levelized PAC Cost	133	0.74	0.90	N (PAC cost * Gas benefits)/Total Benefits	7,504,969
					D LifeCycleNetTherm	10,193,093
	Levelized TRC Cost	136	0.98	0.99	N (TRC cost * Gas benefits)/Total Benefits	9,996,130
					D LifeCycleNetTherm	10,193,093
	Average Energy Use Intensity Multi Family Homes (not adjusted) in Kbtu/SqFt					
	[Indicator] - Average energy use intensity of multifamily units. including **in-unit** accounts - average usage per square foot – not adjusted	137	21	21	N Annual therm Usage for MF HH Accounts (GR 2-4)	340,174,215
					D Total Sqft of MF households (GR 2-4)	1.61E+09
	[Indicator] Average energy use intensity of multifamily **buildings** - average usage per square foot – not adjusted	138	17	17	N Annual therm Usage for MF GM Accounts	220,294,920
					D Total Sqft of MF GM buildings (10.8 times annual premises with usag	1.28E+09

SoCalGas Residential - Multi Family (MF)

Metric Type	Final Common Metric or Indicator	Index	2016	2017	Formula (Numerator/Denominator)		2016
B1: MF Benchmarking	**Percent of benchmarked multi-family properties relative to the eligible population••••**						
	Percentage of Benchmarked multi-family properties relative to the eligible population	129	0.3%	0.6%	**N**	# MF accounts participated in Portfolio Manager	214
					D	# MF Buildings > 5 units	66,852
B6: Benchmarking of HTR Properties	**Percent of benchmarking by properties defined as**						
	Percentage of Benchmarked properties defined as "hard-to-reach"	130	0.0003%	0.0005%	**N**	# MF accounts participanted in Portfolio Manager in HTR	76
					D	# MF Buildings > 5 units in HTR	26,222

**For MF1- MF Therm Savings exclude missing BA_IDs for MF Customers (BA_ID level) because participant counts are based on the BA_ID(service account) level
**CO2 includes at the ClaimID Level
**Exclude Mobile Home for Res and Any for ESA
**For MF1, there are missing Gas Rate in Reporting System, supplement as GR; the remaining GM, and report savings only based on non missing info.
**For MF4-1, if POS, Retailers, Contractors with one BA_ID with mutliple tentant rebates, count the multiple tentants as one participant because it is one Gas Account in CIS. The MF participant is being counted in the BA_ID level, not those who benefits
The MF participant is being counted in the BA_ID level, not those who benefits of the rebate level
**For MF3-2, the projects counts is at the JobID level with the non missing unique BA_ID
**GrossGasCO2 = GrossElecCO2 + GrossGasCO2
SF = 2,000 sqft
MF (individual) = 935 sqft
MF (building/unit) = 1,000 sqft
**RW- ReportingWarehouse, EE Claim Database; CIS-Customer Information System; BA_ID (Service Account)

SoCalGas Residential - Multi Family (MF)

Metric Type	Final Common Metric or Indicator	Index	2016	2017	2017
S1: Energy Savings	**First Year Annual and Lifecycle ExAnte(Pre-Evaluation) Gas, Electric, and Demand Savings (Gross and Net) for Multi-family customers (in units, common area, and master metered accounts)**				
	Gross Therm for MF (in Unit)	82	140,697	178,554	
	Net Therm for MF (in Unit)	83	94,726	111,452	
	Gross Therm for MF (Master Metered)	94	1,190,539	565,081	
	Net Therm for MF (Master Metered)	95	834,669	361,725	
	Gross Therm for MF (Common Area)	106	83,699	11,691	
	Net Therm for MF (Common Area)	107	66,296	7,289	
	Gross Therm LifeCycle for MF (in Unit)	88	1,682,187	2,293,520	
	Net Therm LifeCycle for MF (in Unit)	89	1,574,918	1,720,311	
	Gross Therm LifeCycle for MF (Master Metered)	100	10,899,317	3,975,876	
	Net Therm LifeCycle for MF (Master Metered)	101	8,275,483	2,559,625	
	Gross Therm LifeCycle for MF (Common Area)	112	977,601	76,523	
	Net Therm LifeCycle for MF (Common Area)	113	819,327	47,844	
GHG	**Greenhouse Gas (MT CO2) Savings, reported on an annual basis**				
	Gross Gas CO2	114	8,424	5,282	
D4: Depth of Intervention	**Average Savings (Net LifeCycle Therms) for MF (per Participation, per Project(Building), per Sq.Ft)**				
	Net Energy Savings Per Participant (Property)	120	111	155	1,720,311 11,134
	Net Energy Savings Per Project (Building)	117	4194	1659	2,559,625 1,543
	Net Energy Savings Per Sq.Ft	123	0.28	0.16	4,279,936 27,075,027

SoCalGas Residential - Multi Family (MF)

Metric Type	Final Common Metric or Indicator	Index	2016	2017	2017
P1: Penetration of energy efficiency programs in the eligible marke	**Participant relative to eligible population**				
	Percent of participation relative to eligible population (by BA_	125	0.9%	0.7%	12,677 1,728,151
	Percent of participation relative to eligible population (by Building, Master Metered)	124	1.7%	1.31%	1,543 117,882
	Percent square feet eligible population (by in unit)	126	0.8%	0.64%	10,410,627 1.62E+09
	Percent of participation in Disadvantaged Communities	127	0.50%	0.43%	2,628 612,213
	Percent of participation in Hard to Reach Communities	128	0.49%	0.43%	2,945 691,034
Cost per unit saved	**Levelized Cost Energy Efficiency per Therm for Multi Family**				
	Levelized PAC Cost	133	0.74	0.90	3,631,465 4,012,685
	Levelized TRC Cost	136	0.98	0.99	3,975,014 4,012,685
	Average Energy Use Intensity Multi Family Homes (not adjusted) in Kbtu/SqFt				
	[Indicator] - Average energy use intensity of multifamily units. including **in-unit** accounts - average usage per square foot – not adjusted	137	21	21	342,047,171 1.62E+09
	[Indicator] Average energy use intensity of multifamily **buildings** - average usage per square foot – not adjusted	138	17	17	219,931,185 1.27E+09

SoCalGas Residential - Multi Family (MF)

Metric Type	Final Common Metric or Indicator	Index	2016	2017	2017
B1: MF Benchmarking	**Percent of benchmarked multi-family properties relative to the eligible population••••**				
	Percentage of Benchmarked multi-family properties relative to the eligible population	129	0.3%	0.6%	380 66,852
B6: Benchmarking of HTR Properties	**Percent of benchmarking by properties defined as**				
	Percentage of Benchmarked properties defined as "hard-to-reach"	130	0.0003%	0.0005%	127 26,222

**For MF1- MF Therm Savings exclude missing BA_IDs for MF Customers (BA_ID level) because participant counts are based on the BA_ID(service account) level
**CO2 includes at the ClaimID Level
**Exclude Mobile Home for Res and Any for ESA
**For MF1, there are missing Gas Rate in Reporting System, supplement as GR; the remaining GM, and report savings only based on non missing info.
**For MF4-1, if POS, Retailers, Contractors with one BA_ID with mutliple tentant rebates, count the multiple tentants as one participant because it is one Gas Account in CIS. The MF participant is being counted in the BA_ID level, not those who benefits
The MF participant is being counted in the BA_ID level, not those who benefits of the rebate level
**For MF3-2, the projects counts is at the JobID level with the non missing unique BA_ID
**GrossGasCO2 = GrossElecCO2 + GrossGasCO2
SF = 2,000 sqft
MF (individual) = 935 sqft
MF (building/unit) = 1,000 sqft
**RW- ReportingWarehouse, EE Claim Database; CIS-Customer Information System; BA_ID (Service Account)

SoCalGas Residential - Multi Family (MF)

Metric Type	Final Common Metric or Indicator	Index	2016	2017	Assumptions-Notes
S1: Energy Savings	**First Year Annual and Lifecycle ExAnte(Pre-Evaluation) Gas, Electric, and Demand Savings (Gross and Net) for Multi-family customers (in units, common area, and master metered accounts)**				
	Gross Therm for MF (in Unit)	82	140,697	178,554	RW's MFm BldgType + Res Primary Sector + Gas Rate Primary (in Unit)'s therm savings where ClaimID is not null. Rate=GR, GT-R and location code (LC_CD) = B, C, D).
	Net Therm for MF (in Unit)	83	94,726	111,452	
	Gross Therm for MF (Master Metered)	94	1,190,539	565,081	
	Net Therm for MF (Master Metered)	95	834,669	361,725	RW's MFm BldgType + Res Primary Sector + Gas Rate Primary (Master Metered Rate =GM-E,GT-ME,GM-BE,GM-E,GM-EL))'s therm savings where ClaimID is not null.
	Gross Therm for MF (Common Area)	106	83,699	11,691	
	Net Therm for MF (Common Area)	107	66,296	7,289	
	Gross Therm LifeCycle for MF (in Unit)	88	1,682,187	2,293,520	RW's MFm BldgType + Res Primary Sector + Gas Rate Primary (Common Area Rate =GM-C,GT-MC))'s therm savings.
	Net Therm LifeCycle for MF (in Unit)	89	1,574,918	1,720,311	
	Gross Therm LifeCycle for MF (Master Metered)	100	10,899,317	3,975,876	RW's MFm BldgType + Res Primary Sector + Gas Rate Primary (Common Area)'s therm savings.
	Net Therm LifeCycle for MF (Master Metered)	101	8,275,483	2,559,625	
	Gross Therm LifeCycle for MF (Common Area)	112	977,601	76,523	
	Net Therm LifeCycle for MF (Common Area)	113	819,327	47,844	
GHG	**Greenhouse Gas (MT CO2) Savings, reported on an annual basis**				CEDAR's CET Annual Report Output file:(GasCO2+ElecCO2) with ClaimIDs in MFm BldgType and Res PrimarySector
	Gross Gas CO2	114	8,424	5,282	
D4: Depth of Intervention	**Average Savings (Net LifeCycle Therms) for MF (per Participation, per Project(Building), per Sq.Ft)**				
	Net Energy Savings Per Participant (Property)	120	111	155	RW's MFm BldgType + Res Primary Sector + Gas Rate Primary (in Unit)'s therm saved. RW's MFm BldgType + Res Primary Sector + Gas Rate Primary (in Unit)'s non missing BA_ID
	Net Energy Savings Per Project (Building)	117	4194	1659	RW's MFm BldgType + Res Primary Sector + Gas Rate Primary (Mastered Meter + Common Area)'s therm saved RW's MFm BldgType + Res Primary Sector + Gas Rate Primary (Mastered Meter + Common Area)'s Non Missing BA_ID
	Net Energy Savings Per Sq.Ft	123	0.28	0.16	RW's MFm BldgType + Res Primary Sector + Gas Rate Primary (In Unit + Mastered Meter + RW's MFm BldgType + Res Primary Sector + Gas Rate Primary (In Unit + Mastered Meter +

SoCalGas Residential - Multi Family (MF)

Metric Type	Final Common Metric or Indicator	Index	2016	2017	Assumptions-Notes
P1: Penetration of energy efficiency programs in the eligible marke	**Participant relative to eligible population**				
	Percent of participation relative to eligible population (by BA_	125	0.9%	0.7%	RW's MFm BldgType + Res Primary Sector + Gas Rate Primary (in Unit, Mastered Meter, Common CIS Service Account (BA_ID) in MF Accounts (in Unit, include GR)
	Percent of participation relative to eligible population (by Building, Master Metered)	124	1.7%	1.31%	RW's MFm BldgType + Res Primary Sector + Gas Rate Primary (Mastered Meter, Common Area) CIS Service Account (BA_ID) in MF Accounts (GM Account)
	Percent square feet eligible population (by in unit)	126	0.8%	0.64%	RW's GR Participant*935 (RW GR Participant with BA_ID *935 sq.ft) CIS GR Account*935 sq.ft
	Percent of participation in Disadvantaged Communities	127	0.50%	0.43%	Numerators for DAC/HTR: RW's MFm BldgType + Res Primary Sector + Gas Rate Primary; Retrieve BA_ID from RW to obtain GNNID from CIS; GNNID in CIS to map Census Tract Code in CIS; Census Tract Code in CIS map to Census Tract Code in DAC/HTR list
	Percent of participation in Hard to Reach Communities	128	0.49%	0.43%	Denomintors for DAC/HTR: Retrieve BA_ID from CIS to obtain GNNID from CIS; GNNID in CIS to map Census Tract Code in CIS; Census Tract Code in CIS map to Census Tract Code in DAC list
Cost per unit saved	**Levelized Cost Energy Efficiency per Therm for Multi Family**				
	Levelized PAC Cost	133	0.74	0.90	CEDAR's CET Annual Report Output file: Numerator=TRC or PAC Cost * Gas Benefit)/Total Benefits
	Levelized TRC Cost	136	0.98	0.99	CEDAR's CET Annual Report Output file:Denominator: LifeCycleNetTherm
	Average Energy Use Intensity Multi Family Homes (not adjusted) in Kbtu/SqFt				CIS Annual Usage for MF Household (Residential Service Account) 2-4 Sq ft assumption: 935 sq ft is used as a proxy for MF Sq ft (individual); 1,000 sq ft is used as a proxy for MF (building). One kBTU is 100 therms, multiple 100 to the usage for the numerator. In addition, for denominator, *935 or *1000 respectively to the gas rate. CIS Number of MF Households (Residential Service Account) GR 2-4 with usage
	[Indicator] - Average energy use intensity of multifamily units. including **in-unit** accounts - average usage per square foot – not adjusted	137	21	21	
	[Indicator] Average energy use intensity of multifamily **buildings** - average usage per square foot – not adjusted	138	17	17	CIS Annual Usage for MF GM Accounts. Sq ft assumption: 935 sq ft is used as a proxy for MF Sq ft (individual); 1,000 sq ft is used as a proxy for MF (building). One kBTU is 100 therms, multiple 100 to the usage for the numerator. In addition, for denominator, *935 or *1000 respectively to the gas rate. CIS's MF GM Units *10.8 is the average number of dwelling units per GM account from CIS.

SoCalGas Residential - Multi Family (MF)

Metric Type	Final Common Metric or Indicator	Index	2016	2017	Assumptions-Notes
B1: MF Benchmarking	**Percent of benchmarked multi-family properties relative to the eligible population••••**				
	Percentage of Benchmarked multi-family properties relative to the eligible population	129	0.3%	0.6%	Portfolio Manager's BA_ID map RW's MF Unique address of CIS accounts either GME or GMC rates and LC_CD=D (>5 units)
B6: Benchmarking of HTR Properties	**Percent of benchmarking by properties defined as**				
	Percentage of Benchmarked properties defined as "hard-to-reach"	130	0.0003%	0.0005%	Portfolio Manager's BA_ID map RW to the HTR List Unique address of CIS accounts either GME or GMC rates and LC_CD=D in HTR census tracts.

**For MF1- MF Therm Savings exclude missing BA_IDs for MF Customers (BA_ID level) because participant counts are based on the BA_ID(service account) level
**CO2 includes at the ClaimID Level
**Exclude Mobile Home for Res and Any for ESA
**For MF1, there are missing Gas Rate in Reporting System, supplement as GR; the remaining GM, and report savings only based on non missing info.
**For MF4-1, if POS, Retailers, Contractors with one BA_ID with mutliple tentant rebates, count the multiple tentants as one participant because it is one Gas Account in CIS. The MF participant is being counted in the BA_ID level, not those who benefits
The MF participant is being counted in the BA_ID level, not those who benefits of the rebate level
**For MF3-2, the projects counts is at the JobID level with the non missing unique BA_ID
**GrossGasCO2 = GrossElecCO2 + GrossGasCO2
SF = 2,000 sqft
MF (individual) = 935 sqft
MF (building/unit) = 1,000 sqft
**RW- ReportingWarehouse, EE Claim Database; CIS-Customer Information System; BA_ID (Service Account)

Commercial

SoCalGas

August 6, 2018

SoCalGas Commercial - (Excluding Public Accounts)

Metric Type	Final Common Metric or Indicator	Index	2016	2017	Formula (Numerator/Denominator)	2016
S1: Energy Savings	**First Year Annual and Lifecycle ExAnte(Pre-Evaluation) Gas, Electric, and Demand Savings (Gross and Net) for Commercial customers**					
	Gross Therm for Commercial	143	3,552,481	3,342,185		
	Net Therm for Commercial	144	2,221,709	2,132,366		
	Gross Therm LifeCycle for Commercial	149	42,882,610	42,998,315		
	Net Therm LifeCycle for Commercial	150	26,867,413	27,300,788		
S2: Percent Overall Sectoral Savings	**First Year Annual and Lifecycle ExAnte(Pre-Evaluation) Gas, Electric, and Demand Savings (Gross and Net) as a percentage of overall sectoral usage**					
	Percent of Gross Therm of Commercial usage	155	0.48%	0.44%	N Annualized Gross Therm Saved by Commercial D Total Usage of Commercial Sector	3,552,481 746,694,714
	Percent of Net Therm of Commercial usage	156	0.30%	0.28%	N Annualized Net Therm Saved by Commercial D Total Usage of Commercial Sector	2,221,709 746,694,714
	Percent of Gross Therm LifeCycle of Commercial usage	161	5.74%	5.69%	N Annualized Gross Therm LifeCycle Saved by Commercial D Total Usage of Commercial Sector	42,882,610 746,694,714
	Percent of Net Therm LifeCycle of Commercial usage	162	3.60%	3.61%	N Annualized Net Therm LifeCycle Saved by Commercial D Total Usage of Commercial Sector	26,867,413 746,694,714
GHG	**Greenhouse Gas (MT CO2) Savings, reported on an annual basis**					
	Gross Gas CO2	163	20,243	22,728		20,243
D2: Depth of intervention by project	**Energy Savings Gross Therm as a fraction of project consumption**					
	Percent of Savings of Project Consumption	166	10%	8%	N Annualized Therm Saved for all Commercial Projects D Total Usage of the all Commercial Customers with Projects	3,552,481 35,477,951

SoCalGas Commercial - (Excluding Public Accounts)

Metric Type	Final Common Metric or Indicator	Index	2016	2017	Formula (Numerator/Denominator)	2016
P1: Penetration of Energy Efficiency Programs in the Eligible Market Metric	**Commercial Sector Participants relative to eligible population for Small, Medium, and Large Customer**					
	Percent of participation relative to eligible population - Small<10,000 therms	169	0.69%	0.86%	**N** # Commercial Participants Small	1,161
					D # Commercial Customers Small < 10,000 therms	167,582
	Percent of participation relative to eligible population - 10,000<=Medium<=50,000 therms	168	4.12%	4.11%	**N** # Commercial Participants Medium	590
					D # Commercial Customers 10,000<=medium<=50,000 therms	14,320
	Percent of participation relative to eligible population - Large>50,000 therms	167	5.88%	6.58%	**N** # Commercial Participants Large	79
					D # Commercial Customers Large>50,000 therms	1,344
P2: Penetration of energy efficiency	**Percent of Square feet of eligible population**					
	Percent of Square feet of eligible population	170	1.01%	1.12%	**N** Sum of each participant Sq footage from CSS	10,915,011
					D Number of Square feet of Eligible Population	1.08E+09
P4: Penetration of energy efficiency	**Percent of participation in Hard to Reach Communities**					
	Percent of participation in Hard to Reach Communities	171	0.08%	0.14%	**N** Number of Commercial Participants in HTR	63
					D Number of Commercial in HTR	82,999
Cost per unit saved	**Levelized Cost of Energy Efficiency per Therm for Commercial**					
	Levelized PAC Cost	179	0.50	0.29	**N** (PAC cost * Gas benefits)/Total Benefits	13,367,249
					D LifeCycleNetTherm	26,867,413
	Levelized TRC Cost	182	0.61	0.42	**N** (TRC cost * Gas benefits)/Total Benefits	16,494,696
					D LifeCycleNetTherm	26,867,413

SoCalGas Commercial - (Excluding Public Accounts)

Metric Type	Final Common Metric or Indicator	Index	2016	2017	Formula (Numerator/Denominator)	2016
	Benchmarked Customers relative to eligible population					**2016**
Benchmarking penetration for commercial sector	Percent of eligible population for Commercial Sector in Portfolio Manager	IN	0%	0%	**N** # Commercial Customer participant in Benchmark **D** # Commercial Customer (Population)	476 183,246
	Percent of benchmarked customers relative to eligible population for **large** customers	173	1.8%	3.0%	**N** # Commercial Customer participant in Benchmark (Large) **D** # Commercial Customer (Large)	24 1,344
	Percent of benchmarked customers relative to eligible population for **medium** customers	174	0.8%	1.3%	**N** # Commercial Customer participant in Benchmark(Medium) **D** # Commercial Customer (Medium)	116 14,320
	Percent of benchmarked customers relative to eligible population for **small** customers	175	0.2%	0.2%	**N** # Commercial Customer participant in Benchmark (Small) **D** # Commercial Customer (Small)	336 167,582
	Percent of participation by customers defined as HTR					
B6: Benchmarking of HTR Properties	Percent of benchmarking by customers defined as "hard-to-reach"	176	0.0%	0.1%	**N** # Commercial Customer participant in Benchmark(HTR) **D** # Commercial Participants	17 167,582
	Percent of benchmarked square feet of eligible population					
P2: Penetration of EE programs (sqft of eligible population)	C-B2 - Percent of benchmarked square feet of eligible population	172	0.3%	0.3%	**N** SqFt of benchmarked commercial buildings in Portfolio Mgr **D** Number of Sq. Ft. participation(Sum of each participant Sqft)	3,331,699 1,082,940,175

**For COM1- COM Therm Savings exclude missing BA_IDs for COM Customers (BA_ID level) because participant counts are based on the BA_ID(service account) level

**CO2 includes at the ClaimID Level

**GrossGasCO2 = GrossElecCO2 + GrossGasCO2

**Number of Commercial Customer participant in Benchmark sources from RW out of the Commercial Customer in Portfolio Manager

**RW- ReportingWarehouse, EE Claim Database; CIS-Customer Information System; BA_ID (Service Account)

Investment in Energy Efficiency

Total incentive

Total project cost

=TotalIncentive(COM, RW)/Total Expenditure (SCG-COM, CEDARS)=6,069,606/17,813,417=34%

SoCalGas Commercial - (Excluding Public Accounts)

Metric Type	Final Common Metric or Indicator	Index	2016	2017	2017
S1: Energy Savings	**First Year Annual and Lifecycle ExAnte(Pre-Evaluation) Gas, Electric, and Demand Savings (Gross and Net) for Commercial customers**				
	Gross Therm for Commercial	143	3,552,481	3,342,185	
	Net Therm for Commercial	144	2,221,709	2,132,366	
	Gross Therm LifeCycle for Commercial	149	42,882,610	42,998,315	
	Net Therm LifeCycle for Commercial	150	26,867,413	27,300,788	
S2: Percent Overall Sectoral Savings	**[illegible] Electric, and Demand Savings (Gross and Net) as a percentage of overall sectoral usage**				
	Percent of Gross Therm of Commercial usage	155	0.48%	0.44%	3,342,185 / 755,911,598
	Percent of Net Therm of Commercial usage	156	0.30%	0.28%	2,132,366 / 755,911,598
	Percent of Gross Therm LifeCycle of Commercial usage	161	5.74%	5.69%	42,998,315 / 755,911,598
	Percent of Net Therm LifeCycle of Commercial usage	162	3.60%	3.61%	27,300,788 / 755,911,598
GHG	**Greenhouse Gas (MT CO2) Savings, reported on an annual basis**				
	Gross Gas CO2	163	20,243	22,728	20,128
D2: Depth of intervention by project	**Energy Savings Gross Therm as a fraction of project consumption**				
	Percent of Savings of Project Consumption	166	10%	8%	3,342,185 / 43,068,273

SoCalGas Commercial - (Excluding Public Accounts)

Metric Type	Final Common Metric or Indicator	Index	2016	2017	2017
P1: Penetration of Energy Efficiency Programs in the Eligible Market Metric	**Commercial Sector Participants relative to eligible population for Small, Medium, and Large Customer**				
	Percent of participation relative to eligible population - Small<10,000 therms	169	0.69%	0.86%	1,433 167,282
	Percent of participation relative to eligible population - 10,000<=Medium<=50,000 therms	168	4.12%	4.11%	593 14,427
	Percent of participation relative to eligible population - Large>50,000 therms	167	5.88%	6.58%	90 1,368
P2: Penetration of energy efficiency	**Percent of Square feet of eligible population**				
	Percent of Square feet of eligible population	170	1.01%	1.12%	12,089,719 1.08E+09
P4: Penetration of energy efficiency	**Percent of participation in Hard to Reach Communities**				
	Percent of participation in Hard to Reach Communities	171	0.08%	0.14%	113 82,888
Cost per unit saved	**Levelized Cost of Energy Efficiency per Therm for Commercial**				
	Levelized PAC Cost	179	0.50	0.29	7,809,808 27,300,788
	Levelized TRC Cost	182	0.61	0.42	11,410,350 27,300,788

SoCalGas Commercial - (Excluding Public Accounts)

Metric Type	Final Common Metric or Indicator	Index	2016	2017	2017
	Benchmarked Customers relative to eligible population				**2017**
Benchmarking penetration for commercial sector	Percent of eligible population for Commercial Sector in Portfolio Manager	IN	0%	0%	582 183,077
	Percent of benchmarked customers relative to eligible population for **large** customers	173	1.8%	3.0%	41 1,368
	Percent of benchmarked customers relative to eligible population for **medium** customers	174	0.8%	1.3%	187 14,427
	Percent of benchmarked customers relative to eligible population for **small** customers	175	0.2%	0.2%	354 167,282

	Percent of participation by customers defined as HTR				
B6: Benchmarking of HTR Properties	Percent of benchmarking by customers defined as "hard-to-reach"	176	0.0%	0.1%	113 167,282

	Percent of benchmarked square feet of eligible population				
P2: Penetration of EE programs (sqft of eligible population)	C-B2 - Percent of benchmarked square feet of eligible population	172	0.3%	0.3%	2,806,939 1.08E+09

**For COM1- COM Therm Savings exclude missing BA_IDs for COM Customers (BA_ID level) because participant counts are based on the BA_ID(service account) level

**CO2 includes at the ClaimID Level

**GrossGasCO2 = GrossElecCO2 + GrossGasCO2

**Number of Commercial Customer participant in Benchmark sources from RW out of the Commercial Customer in Portfolio Manager

**RW- ReportingWarehouse, EE Claim Database; CIS-Customer Information System; BA_ID (Service Account)

Investment in Energy Efficiency

Total incentive

Total project cost

=TotalIncentive(COM, RW)/Total Expenditure (SCG-COM, CEDARS)=6,069,606/17,813,417=34%

SoCalGas Commercial - (Excluding Public Accounts)

Metric Type	Final Common Metric or Indicator	Index	2016	2017	Assumptions-Notes
S1: Energy Savings	**First Year Annual and Lifecycle ExAnte(Pre-Evaluation) Gas, Electric, and Demand Savings (Gross and Net) for Commercial customers**				RW's Com Primary Sector (exclude Public Sector and Cross Cutting-C&S)'s therm savings where ClaimID is not null
	Gross Therm for Commercial	143	3,552,481	3,342,185	
	Net Therm for Commercial	144	2,221,709	2,132,366	
	Gross Therm LifeCycle for Commercial	149	42,882,610	42,998,315	
	Net Therm LifeCycle for Commercial	150	26,867,413	27,300,788	
S2: Percent Overall Sectoral Savings	**First Year Annual and Lifecycle ExAnte(Pre-Evaluation) Gas, Electric, and Demand Savings (Gross and Net) as a percentage of overall sectoral usage**				RW's Com Primary Sector (exclude Public Sector and Cross Cutting-C&S)'s Gross therm savings where ClaimID is not null
	Percent of Gross Therm of Commercial usage	155	0.48%	0.44%	CIS Commercial Account with usage; NAIC in CIS was used to define commercial customers and building types + exclude those that falls in Public Sector that was defined by Public list (SCG's Internal list of Pub Customer identified from Public staff).
	Percent of Net Therm of Commercial usage	156	0.30%	0.28%	RW's Com Primary Sector (exclude Public Sector and Cross Cutting-C&S)'s Net therm savings where ClaimID is not null CIS Commercial Account with usage; NAIC in CIS was used to define commercial customers and building types + exclude those that falls in Public Sector that was defined by Public list (SCG's Internal list of Pub Customer identified from Public staff).
	Percent of Gross Therm LifeCycle of Commercial usage	161	5.74%	5.69%	RW's Com Primary Sector (exclude Public Sector and Cross Cutting-C&S)'s Gross therm LifeCycle CIS Commercial Account with usage; NAIC in CIS was used to define commercial customers and building types + exclude those that falls in Public Sector that was defined by Public list (SCG's Internal list of Pub Customer identified from Public staff).
	Percent of Net Therm LifeCycle of Commercial usage	162	3.60%	3.61%	RW's Com Primary Sector (exclude Public Sector and Cross Cutting-C&S)'s NetTherm LifeCycle CIS Commercial Account with usage; NAIC in CIS was used to define commercial customers and
GHG	**Greenhouse Gas (MT CO2) Savings, reported on an annual basis**				CEDAR's CET Annual Report Output file:(GasCO2+ElecCO2) with ClaimIDs in COM PrimarySector (exclude Public Sector and Cross Cutting-C&S)
	Gross Gas CO2	163	20,243	22,728	
D2: Depth of intervention by project	**Energy Savings Gross Therm as a fraction of project consumption**				RW's Com Primary Sector (exclude Public Sector and Cross Cutting-C&S)'s therm savings where ClaimID is not null
	Percent of Savings of Project Consumption	166	10%	8%	CIS Commercial Account with usage; NAIC in CIS was used to define commercial customers and building types + exclude those that falls in Public Sector that was defined by Public list (SCG's internal list from Public staff) mapped to RW's BA_ID that participated in Commercial Projects

SoCalGas Commercial - (Excluding Public Accounts)

Metric Type	Final Common Metric or Indicator	Index	2016	2017	Assumptions-Notes
P1: Penetration of Energy Efficiency Programs in the Eligible Market Metric	**Commercial Sector Participants relative to eligible population for Small, Medium, and Large Customer**				CIS Commercial Account with usage <10000 therms; NAIC in CIS was used to define commercial customers and building types + exclude those that falls in Public Sector that was defined by Public list (SCG's Internal list of Pub Customer identified from Public staff) mapped to RW's BA_ID that
	Percent of participation relative to eligible population - Small<10,000 therms	169	0.69%	0.86%	CIS Commercial Account with usage <10,000 therms; NAIC in CIS was used to define commercial customers and building types + exclude those that falls in Public Sector that was defined by Public
	Percent of participation relative to eligible population - 10,000<=Medium<=50,000 therms	168	4.12%	4.11%	CIS Commercial Account with usage 10,000<= therms <=50,000 therms; NAIC in CIS was used to CIS Commercial Account with usage 10,000<= therms <=50,000 therms; NAIC in CIS was used to define commercial customers and building types + exclude those that falls in Public Sector that
	Percent of participation relative to eligible population - Large>50,000 therms	167	5.88%	6.58%	CIS Commercial Account with usage >50,000 therms; NAIC in CIS was used to define commercial CIS Commercial Account with usage >50,000 therms; NAIC in CIS was used to define commercial
P2: Penetration of energy efficiency	**Percent of Square feet of eligible population**				CSS survey's average Sq.Ft per commercial customer * Number of Participants (RW's Com Primary
	Percent of Square feet of eligible population	170	1.01%	1.12%	CSS survey's Sq.Ft assigned to each Commercial Customer and then sum it up; NAIC in CIS was used to define commercial customers and building types + exclude Public list.
P4: Penetration of energy efficiency	**Percent of participation in Hard to Reach Communities**				RW's Com Primary Sector (exclude Public Sector and Cross Cutting-C&S) where ClaimID is not null;
	Percent of participation in Hard to Reach Communities	171	0.08%	0.14%	RW's Com Primary Sector (exclude Public Sector and Cross Cutting-C&S) where ClaimID is not null; Retrieve BA_ID from RW (exclude Public) to obtain GNNID from CIS; GNNID in CIS to map Census Tract Code in CIS; Census Tract Code in CIS map to Census Tract Code in HTR list with the Commercial Customer in CIS
Cost per unit saved	**Levelized Cost of Energy Efficiency per Therm for Commercial**				
	Levelized PAC Cost	179	0.50	0.29	CEDAR's CET Annual Report Output file: Numerator=TRC or PAC Cost * Gas Benefit)/Total Benefits
	Levelized TRC Cost	182	0.61	0.42	CEDAR's CET Annual Report Output file:Denominator: LifeCycleNetTherm

SoCalGas Commercial - (Excluding Public Accounts)

Metric Type	Final Common Metric or Indicator	Index	2016	2017	Assumptions-Notes
Benchmarking penetration for commercial sector	**Benchmarked Customers relative to eligible population**				Retrived Address from Portfolio Manager to get BA_ID from CIS for count of Commercial Customer participanted in Benchmark Retrived Address from Portfolio Manager to get BA_ID from CIS. Portfolio Manager's BA_ID map to RW's Com Primary Sector (exclude Public Sector and Cross Cutting-C&S)'s BA_D where ClaimID For numerators of benchmarked SML: Retrieved address from Portfolio Manager to get BA_ID from CIS by annual usage for large, medium, and small sizes. For denominators of benchmarked SML: Retrieved Address from Portfolio Manager to get BA_ID from CIS. Portfolio Manager's BA_ID map to RW's Com Primary Sector (exclude Public Sector and Cross Cutting-C&S)'s BA_D where ClaimID
	Percent of eligible population for Commercial Sector in Portfolio Manager	IN	0%	0%	
	Percent of benchmarked customers relative to eligible population for **large** customers	173	1.8%	3.0%	
	Percent of benchmarked customers relative to eligible population for **medium** customers	174	0.8%	1.3%	
	Percent of benchmarked customers relative to eligible population for **small** customers	175	0.2%	0.2%	
B6: Benchmarking of HTR Properties	**Percent of participation by customers defined as HTR**				RW's Com Primary Sector (exclude Public Sector and Cross Cutting-C&S) where ClaimID is not null; Retrieve BA_ID from RW (exclude Public) to obtain GNNID from CIS; GNNID in CIS to map Census Tract Code in CIS; Census Tract Code in CIS map to Census Tract Code in HTR list with the Commercial participants participated in Rebate programs Retrieved Address from Portfolio Manager to get BA_ID from CIS. Portfolio Manager's BA_ID map to RW's Com Primary Sector (exclude Public Sector and Cross Cutting-C&S)'s BA_D where ClaimID
	Percent of benchmarking by customers defined as "hard-to-reach"	176	0.0%	0.1%	
P2: Penetration of EE programs (sqft of eligible population)	**Percent of benchmarked square feet of eligible population**				Retrieved Address from Portfolio Manager to get BA_ID from CIS for count of Commercial Customer participanted in Benchmark * CSS Survey's Sq.Ft CSS survey's average Sq.Ft per commercial customer * Number of Participants (RW's Com Primary Sector (exclude Public Sector and Cross Cutting-C&S)'s BA_ID count where ClaimID is not null
	C-B2 - Percent of benchmarked square feet of eligible population	172	0.3%	0.3%	

**For COM1- COM Therm Savings exclude missing BA_IDs for COM Customers (BA_ID level) because participant counts are based on the BA_ID(service account) level

**CO2 includes at the ClaimID Level

**GrossGasCO2 = GrossElecCO2 + GrossGasCO2

**Number of Commercial Customer participant in Benchmark sources from RW out of the Commercial Customer in Portfolio Manager

**RW- ReportingWarehouse, EE Claim Database; CIS-Customer Information System; BA_ID (Service Account)

Investment in Energy Efficiency

Total incentive

Total project cost

=TotalIncentive(COM, RW)/Total Expenditure (SCG-COM, CEDARS)=6,069,606/17,813,417=34%

Public

SoCalGas

August 6, 2018

SoCalGas Public Sector (P)

Metric Type	Final Common Metric or Indicator	Index	2016	2017	Formula (Numerator/Denominator)	2016
S1: Energy Savings	**First Year Annual and Lifecycle ExAnte(Pre-Evaluation) Gas, Electric, and Demand Savings (Gross and Net) for Commercial customers**					
	Gross Therm for Public	192	884,283	815,153		
	Net Therm for Public	193	630,567	567,915		
	Gross Therm LifeCycle for Public	198	7,687,113	8,570,956		
	Net Therm LifeCycle for Public	199	5,425,342	5,899,598		
GHG	**Greenhouse gas (MT CO2eq) based on net lifecycle kWh and**					
	Gross Gas CO2	200	5,210	4,770		
D3: Depth of interventions per building	**Average Energy Savings (therms) per Project Building or Facility**					
	Life Cycle Net Average Savings Per Project	203	17,730	33,331	N Annualized LifeCycle Net Therm Saved for all Public Projects	5,425,342
					D Total Number of Projects/Building in the Public Sector	306
D5: Depth of interventions per square foot	**Average Energy Savings (therms) per Project Building Floor Plan Area**					
	Life Cycle Net Average of Savings per Sq.Ft	206	1.88	3.14	N Annualized LifeCycle Net Therm Saved for all Public Projects	5,425,342
					D Total Number of Sq. Ft Area for the Public Sector Participants	2,890,272
Water	**Average Energy Savings (therms) per Project Water/Wastewater Facilities**					
	Average of Savings per Gallons	IN	IN	IN	N Projects of Waste Water Projects	TBD
					D Total Number of Wastewater Projects	TBD
P1: Penetration of energy efficiency programs in the elibible market ++ Percent of participation	**Public Sector Participants relative to eligible population for Small, Medium, and Large Customer**					
	Percent of Public Sector accounts participating in programs	IN	2%	1%	N Number of Public Sector participant	272
					D Number of Public Accounts	13,338
	Percent of eligible population for Small Customer in Public Sector	IN	1%	1%	N Number of Public Participants in relative to Small Customer	140
					D Total Numbers Public Customer who are Small<10,000 therms	11,662
	Percent of eligible population for Medium Customer in Public Sector	IN	5%	4%	N Number of Public Participants in relative to Medium Customer	61
					D Number of Public Customers 10,000<=medium<=50,000 therms	1,204
	Percent of eligible population for Large Customer in Public Sector	IN	9%	10%	N Number of Public Participants in relative to Large Customer	43
					D Number of Commercial Customers Large>50,000 therms	472

SoCalGas Public Sector (P)

Metric Type	Final Common Metric or Indicator	Index	2016	2017	Formula (Numerator/Denominator)	2016
Cost per unit saved Metric	**Levelized Cost of Energy Efficiency per Therm for Public**					
	Levelized PAC Cost	215	0.59	0.32	**N** (PAC cost * Gas benefits)/Total Benefits	3,211,173
					D LifeCycleNetTherm	5,425,342
	Levelized TRC Cost	218	0.80	0.50	**N** (TRC cost * Gas benefits)/Total Benefits	4,358,165
					D LifeCycleNetTherm	5,425,342
Energy Intensity per public building sector building	**Average Energy Use Intensity of all Public Sector Building**					
	Average Energy use of all Public Sector in KBtu/Sqft	221	106	107	**N** Total therm of all Public Customer	150,346,845
					D Total Sqft of all Public buildings	141,729,588
Public Sector Benchmarking Penetration Calendar Year	**Percent of Public Sector building benchmarked**					
	Percent of Public Sector buildings with current benchmark	220	3%	3%	**N** Number of Public Accounts with Benchmark	451
					D Number of Public Accounts	13,338
	Percent of floorplan area of all Public Sector buildings with current benchmark	222	2%	1%	**N** Number of Public Customer Participants in Sq. Ft in Portfolio Manag	2,890,272
					D (Sqft Public Account=10626 sqft * # Public Accounts)	1.42E+08

**For PUB1- PUB Therm Savings exclude missing BA_IDs for PUB Customers (BA_ID level) because participant counts are based on the BA_ID(service account) level

**CO2 includes at the ClaimID Level

**GrossGasCO2 = GrossElecCO2 + GrossGasCO2

**Public sector is 10,626 sq ft

**Number of Public Accounts with Benchmark sources from CIS Public Accounts to which Public Accounts falls into the Portofolio Manager

**Public Accounts falls in Portofolio Manager with CIS usage in 2016 & 2017 counted in both 2016 and 2017; if no usage in 2016, counted as 2017 or vice versa

**RW- ReportingWarehouse, EE Claim Database; CIS-Customer Information System; BA_ID (Service Account)

SoCalGas Public Sector (P)

Metric Type	Final Common Metric or Indicator	2017
S1: Energy Savings	**First Year Annual and Lifecycle ExAnte(Pre-Evaluation) Gas, Electric, and Demand Savings (Gross and Net) for Commercial customers**	
	Gross Therm for Public	
	Net Therm for Public	
	Gross Therm LifeCycle for Public	
	Net Therm LifeCycle for Public	
GHG	**Greenhouse gas (MT CO2eq) based on net lifecycle kWh and**	
	Gross Gas CO2	
D3: Depth of interventions per building	**Average Energy Savings (therms) per Project Building or Facili**	
	Life Cycle Net Average Savings Per Project	5,899,598
		177
D5: Depth of interventions per square foot	**Average Energy Savings (therms) per Project Building Floor Pl**	
	Life Cycle Net Average of Savings per Sq.Ft	5,899,598
		1,880,802
Water	**Average Energy Savings (therms) per Project Water/Wastewa**	
	Average of Savings per Gallons	TBD
		TBD
P1: Penetration of energy efficiency programs in the elibible market ++ Percent of participation	**Public Sector Participants relative to eligible population for Small, Medium, and Large Customer**	
	Percent of Public Sector accounts participating in programs	177
		13,218
	Percent of eligible population for Small Customer in Public Sector	88
		11,504
	Percent of eligible population for Medium Customer in Public Sector	53
		1,226
	Percent of eligible population for Large Customer in Public Sector	51
		488

SoCalGas Public Sector (P)

Metric Type	Final Common Metric or Indicator	2017
Cost per unit saved Metric	**Levelized Cost of Energy Efficiency per Therm for Public**	
	Levelized PAC Cost	1,869,230 5,899,598
	Levelized TRC Cost	2,959,870 5,899,598
Energy Intensity per public building sector building	**Average Energy Use Intensity of all Public Sector Building**	
	Average Energy use of all Public Sector in KBtu/Sqft	150,336,395 140,454,468
Public Sector Benchmarking Penetration Calendar Year	**Percent of Public Sector building benchmarked**	
	Percent of Public Sector buildings with current benchmark	462 13,218
	Percent of floorplan area of all Public Sector buildings with current benchmark	1,880,802 1.40E+08

**For PUB1- PUB Therm Savings exclude missing BA_IDs for PUB Customers (BA_I on the BA_ID(service account) level

**CO2 includes at the ClaimID Level

**GrossGasCO2 = GrossElecCO2 + GrossGasCO2

**Public sector is 10,626 sq ft

**Number of Public Accounts with Benchmark sources from CIS Public Accounts t Portofolio Manager

**Public Accounts falls in Portofolio Manager with CIS usage in 2016 & 2017 coun 2016, counted as 2017 or vice versa

**RW- ReportingWarehouse, EE Claim Database; CIS-Customer Information Syste

SoCalGas Public Sector (P)

Metric Type	Final Common Metric or Indicator	Assumptions-Notes
S1: Energy Savings	**First Year Annual and Lifecycle ExAnte(Pre-Evaluation) Gas, Electric, and Demand Savings (Gross and Net) for Commercial customers** Gross Therm for Public Net Therm for Public Gross Therm LifeCycle for Public Net Therm LifeCycle for Public	RW's Com Primary Sector (include IsPublicFlag is "Yes" and exclude Cross Cutting-C&S)'s therm savings where ClaimID is not null. Public accounts were identified individually by internal Public Program staff.
GHG	**Greenhouse gas (MT CO2eq) based on net lifecycle kWh and** Gross Gas CO2	CEDAR's CET Annual Report Output file:(GasCO2+ElecCO2) with ClaimIDs in COM PrimarySector (include IsPublicFlag is "Yes" and exclude Cross Cutting-C&S)'s therm savings where ClaimID is not null
D3: Depth of interventions per building	**Average Energy Savings (therms) per Project Building or Facili** Life Cycle Net Average Savings Per Project	RW's Com Primary Sector (include IsPublicFlag is "Yes" and exclude Cross Cutting-C&S)'s Net therm savings where ClaimID is not null RW's Com Primary Sector (include IsPublicFlag is "Yes" and exclude Cross Cutting-C&S) where ClaimID is not null and count by JobID
D5: Depth of interventions per square foot	**Average Energy Savings (therms) per Project Building Floor Pl** Life Cycle Net Average of Savings per Sq.Ft	RW's Com Primary Sector (include IsPublicFlag is "Yes" and exclude Cross Cutting-C&S) where ClaimID is not null From Public list, mapped to RW's BA_ID for participant * 10,626 sq.ft
Water	**Average Energy Savings (therms) per Project Water/Wastewa** Average of Savings per Gallons	
P1: Penetration of energy efficiency programs in the elibible market ++ Percent of participation	**Public Sector Participants relative to eligible population for Small, Medium, and Large Customer**	RW's Com Primary Sector (include IsPublicFlag is "Yes" and exclude Cross Cutting-C&S) where ClaimID is not null and count of BA_ID
	Percent of Public Sector accounts participating in programs	CIS's Commercial NAICS code to identify Commercial Customer that mapped to Public Sector that was defined by Public list (SCG's Internal list of Pub Customer identified from Public staff).
	Percent of eligible population for Small Customer in Public Sector	RW's Com Primary Sector (include IsPublicFlag is "Yes" and exclude Cross Cutting-C&S) where ClaimID is not null with BA_ID with usage <10,000 CIS's Commercial NAICS code to identify Commercial Customer that mapped to Public Sector that was defined by Public list (SCG's Internal list of Pub Customer identified from Public staff) where
	Percent of eligible population for Medium Customer in Public Sector	RW's Com Primary Sector (include IsPublicFlag is "Yes" and exclude Cross Cutting-C&S) where From Public list, where usage 10,000<=therms<50,000
	Percent of eligible population for Large Customer in Public Sector	RW's Com Primary Sector (include IsPublicFlag is "Yes" and exclude Cross Cutting-C&S) where ClaimID is not null with BA_ID with usage >50,000 CIS's Commercial NAICS code to identify Commercial Customer that mapped to Public account list where usage >50,000

SoCalGas Public Sector (P)

Metric Type	Final Common Metric or Indicator	Assumptions-Notes
Cost per unit saved Metric	**Levelized Cost of Energy Efficiency per Therm for Public**	
	Levelized PAC Cost	CEDAR's CET Annual Report Output file: Numerator=TRC or PAC Cost * Gas Benefit)/Total Benefits
	Levelized TRC Cost	CEDAR's CET Annual Report Output file:Denominator: LifeCycleNetTherm
Energy Intensity per public building sector building	**Average Energy Use Intensity of all Public Sector Building**	
	Average Energy use of all Public Sector in KBtu/Sqft	CIS annual usage of public accounts. 1 therm = 100 KBtu # Public account list * 10,626 sqft per account
Public Sector Benchmarking Penetration Calendar Year	**Percent of Public Sector building benchmarked**	Retrieved Address from Portfolio Manager to get BA_ID from CIS for Public Account (BA_ID) participanted in Benchmark
	Percent of Public Sector buildings with current benchmark	From Public account list.
	Percent of floorplan area of all Public Sector buildings with current benchmark	

**For PUB1- PUB Therm Savings exclude missing BA_IDs for PUB Customers (BA_I on the BA_ID(service account) level

**CO2 includes at the ClaimID Level

**GrossGasCO2 = GrossElecCO2 + GrossGasCO2

**Public sector is 10,626 sq ft

**Number of Public Accounts with Benchmark sources from CIS Public Accounts t Portofolio Manager

**Public Accounts falls in Portofolio Manager with CIS usage in 2016 & 2017 coun 2016, counted as 2017 or vice versa

**RW- ReportingWarehouse, EE Claim Database; CIS-Customer Information Syste

Industrial

SoCalGas

August 6, 2018

SoCalGas Industrial (I)

Metric Type	Final Common Metric or Indicator	Index	2016	2017	Formula (Numerator/Denominator)			2016
S1: Energy Savings	**Electric, and Demand Savings (Gross and Net) for Commercial customers**							
	Gross Therm for Industrial	227	4,579,095	1,429,754				
	Net Therm for Industrial	228	2,372,078	821,624				
	Gross Therm LifeCycle for Industrial	233	42,317,801	19,790,562				
	Net Therm LifeCycle for Industrial	234	23,612,963	11,318,758				
GHG	**Greenhouse Gas (MT CO2) Savings, reported on an annual basis**							
	Gross Gas CO2	235	21,329	8,590				
Penetration of energy efficiency programs in the eligible market	**Industrial Sector Participants relative to eligible population for Small, Medium, and Large Customer**							
	Percent of eligible population for Small Customer in Industrial	236	0.13%	0.08%	N	# Industrial Participants - Small		19
					D	# Industrial Customer - Small<10,000 therms		14,827
	Percent of eligible population for Medium Customer in Industı	237	1.02%	0.78%	N	# Industrial Participants - Medium		12
					D	# Industrial Customers 10,000<=medium<=50,000 therms		1,182
	Percent of eligible population for Large Customer in Industrial	238	4.55%	3.17%	N	# Industrial Participants - Large		54
					D	# Industrial Customers Large>50,000 therms		1,186
New Participation	**Percent of customers participating that have not received an incentive for the last three years, annually, by SML**							
	Percent of New Participants by Small Customer	IN	0.09%	0.08%	N	# New small participants in the past three year		14
					D	# Industrial Customer Small<10,000 therms		14,827
	Percent of New Participants by Medium Customer	IN	1.02%	0.61%	N	# New medium participants in the past three year		12
					D	# Industrial Customers 10,000<=medium<=50,000 therms		1,182
	Percent of New Participants by Large Customer	IN	2.87%	2.48%	N	# new large participants in the past three year		34
					D	# Industrial Customers Large>50,000 therms		1,186

SoCalGas Industrial (I)

Metric Type	Final Common Metric or Indicator	Index	2016	2017	Formula (Numerator/Denominator)	2016
Cost per unit saved	**Levelized Cost of Energy Efficiency per Therm for Industrial**					
	Levelized PAC Cost	244	0.28	0.35	**N** (PAC cost * Gas benefits)/Total Benefits	6,496,364
					D LifeCycleNetTherm	23,612,963
	Levelized TRC Cost	247	0.42	0.44	**N** (TRC cost * Gas benefits)/Total Benefits	9,970,136
					D LifeCycleNetTherm	23,612,963
S2: Percent Overall Sectoral Savings	**Reduction in Consumption (Proposed by SCE and SDG&E)**					
	Change in Consumption	259	712,174,240	698,320,594		712,174,240
	Percent first year annual Therm Gross	252	0.64%	0.20%	**N** First Year Gross Therm	4,579,095
					D Total Sector Usage	712,174,240
	Percent first year annual Therm Net	253	3.32%	1.62%	**N** First Year Net Therm	23,612,963
					D Total Sector Usage	712,174,240
	Percent LifeCycle Ex-Ante Therm Gross	258	5.94%	2.83%	**N** First Year LifeCycle Gross Therm	42,317,801
					D Total Sector Usage	712,174,240
	Percent LifeCycle Ex-Ante Therm Net	259	3.32%	1.62%	**N** First Year LifeCycle Net Therm	23,612,963
					D Total Sector Usage	712,174,240

**For IND1- IND Therm Savings exclude missing BA_IDs for IND Customers (BA_ID level) because participant counts are based on the bill account level
**CO2 includes at the ClaimID Level
**GrossGasCO2 = GrossElecCO2 + GrossGasCO2
**RW- ReportingWarehouse, EE Claim Database; CIS-Customer Information System; BA_ID (Service Account)

SoCalGas Industrial (I)

Metric Type	Final Common Metric or Indicator	Index	2016	2017	2017
S1: Energy Savings	**Electric, and Demand Savings (Gross and Net) for Commercial customers**				
	Gross Therm for Industrial	227	4,579,095	1,429,754	
	Net Therm for Industrial	228	2,372,078	821,624	
	Gross Therm LifeCycle for Industrial	233	42,317,801	19,790,562	
	Net Therm LifeCycle for Industrial	234	23,612,963	11,318,758	
GHG	**Greenhouse Gas (MT CO2) Savings, reported on an annual basis**				
	Gross Gas CO2	235	21,329	8,590	
Penetration of energy efficiency programs in the eligible market	**Industrial Sector Participants relative to eligible population for Small, Medium, and Large Customer**				
	Percent of eligible population for Small Customer in Industrial	236	0.13%	0.08%	12 / 14,452
	Percent of eligible population for Medium Customer in Industı	237	1.02%	0.78%	9 / 1,157
	Percent of eligible population for Large Customer in Industrial	238	4.55%	3.17%	37 / 1,168
New Participation	**Percent of customers participating that have not received an incentive for the last three years, annually, by SML**				
	Percent of New Participants by Small Customer	IN	0.09%	0.08%	11 / 14,452
	Percent of New Participants by Medium Customer	IN	1.02%	0.61%	7 / 1,157
	Percent of New Participants by Large Customer	IN	2.87%	2.48%	29 / 1,168

SoCalGas Industrial (I)

Metric Type	Final Common Metric or Indicator	Index	2016	2017	2017
Cost per unit saved	**Levelized Cost of Energy Efficiency per Therm for Industrial**				
	Levelized PAC Cost	244	0.28	0.35	3,981,875 11,318,758
	Levelized TRC Cost	247	0.42	0.44	5,013,001 11,318,758
S2: Percent Overall Sectoral Savings	**Reduction in Consumption (Proposed by SCE and SDG&E)**				
	Change in Consumption	259	712,174,240	698,320,594	698,320,594
	Percent first year annual Therm Gross	252	0.64%	0.20%	1,429,754 698,320,594
	Percent first year annual Therm Net	253	3.32%	1.62%	11,318,758 698,320,594
	Percent LifeCycle Ex-Ante Therm Gross	258	5.94%	2.83%	19,790,562 698,320,594
	Percent LifeCycle Ex-Ante Therm Net	259	3.32%	1.62%	11,318,758 698,320,594

**For IND1- IND Therm Savings exclude missing BA_IDs for IND Customers (BA_ID level) because participant counts are based on the bill account level
**CO2 includes at the ClaimID Level
**GrossGasCO2 = GrossElecCO2 + GrossGasCO2
**RW- ReportingWarehouse, EE Claim Database; CIS-Customer Information System; BA_ID (Service Account)

SoCalGas Industrial (I)

Metric Type	Final Common Metric or Indicator	Index	2016	2017	Assumptions-Notes
S1: Energy Savings	**Electric, and Demand Savings (Gross and Net) for Commercial customers**				
	Gross Therm for Industrial	227	4,579,095	1,429,754	RW's Ind Primary Sector's therm savings where ClaimID is not null
	Net Therm for Industrial	228	2,372,078	821,624	
	Gross Therm LifeCycle for Industrial	233	42,317,801	19,790,562	
	Net Therm LifeCycle for Industrial	234	23,612,963	11,318,758	
GHG	**Greenhouse Gas (MT CO2) Savings, reported on an annual basis**				CEDAR's CET Annual Report Output file:(GasCO2+ElecCO2) with ClaimIDs in Ind PrimarySector where ClaimID is not null
	Gross Gas CO2	235	21,329	8,590	
Penetration of energy efficiency programs in the eligible market	**Industrial Sector Participants relative to eligible population for Small, Medium, and Large Customer**				
	Percent of eligible population for Small Customer in Industrial	236	0.13%	0.08%	Numerators: RW's IND Primary Sector where ClaimID is not null with BA_ID for SML. Denominators: CIS's Commercial NAICS code to identify industrial SML Customer
	Percent of eligible population for Medium Customer in Industı	237	1.02%	0.78%	
	Percent of eligible population for Large Customer in Industrial	238	4.55%	3.17%	
New Participation	**Percent of customers participating that have not received an incentive for the last three years, annually, by SML**				
	Percent of New Participants by Small Customer	IN	0.09%	0.08%	Numerators: RW's IND Primary Sector where ClaimID is not null with BA_ID in compare to BA_ID exists in 2014, 2015, 2016 for 2017; and in compare to BA_ID in 2013, 2014, 2015 for 2016 for SML.
	Percent of New Participants by Medium Customer	IN	1.02%	0.61%	Denominators: Counts exclude identified public accounts by SCG's Public staff) for SML.
	Percent of New Participants by Large Customer	IN	2.87%	2.48%	

SoCalGas Industrial (I)

Metric Type	Final Common Metric or Indicator	Index	2016	2017	Assumptions-Notes
Cost per unit saved	**Levelized Cost of Energy Efficiency per Therm for Industrial**				
	Levelized PAC Cost	244	0.28	0.35	CEDAR's CET Annual Report Output file: Numerator=TRC or PAC Cost * Gas Benefit)/Total Benefits
	Levelized TRC Cost	247	0.42	0.44	CEDAR's CET Annual Report Output file:Denominator: LifeCycleNetTherm
S2: Percent Overall Sectoral Savings	**Reduction in Consumption (Proposed by SCE and SDG&E)**				
	Change in Consumption	259	712,174,240	698,320,594	CIS Consumption data for Ind customer from year to year
	Percent first year annual Therm Gross	252	0.64%	0.20%	RW's Ind Primary Sector's Gross therm savings where ClaimID is not null CIS total usage for IND customer
	Percent first year annual Therm Net	253	3.32%	1.62%	RW's Ind Primary Sector's Net Gross therm savings where ClaimID is not null CIS total usage for IND customer
	Percent LifeCycle Ex-Ante Therm Gross	258	5.94%	2.83%	RW's Ind Primary Sector's LifeCycle Gross therm savings where ClaimID is not null CIS total usage for IND customer
	Percent LifeCycle Ex-Ante Therm Net	259	3.32%	1.62%	RW's Ind Primary Sector's LifeCycle Net therm savings where ClaimID is not null CIS total usage for IND customer

**For IND1- IND Therm Savings exclude missing BA_IDs for IND Customers (BA_ID level) because participant counts are based on the bill account level
**CO2 includes at the ClaimID Level
**GrossGasCO2 = GrossElecCO2 + GrossGasCO2
**RW- ReportingWarehouse, EE Claim Database; CIS-Customer Information System; BA_ID (Service Account)

Agricultural

SoCalGas

August 6, 2018

SoCalGas Agricultural (A)

Metric Type	Final Common Metric or Indicator	Index	2016	2017	Formula (Numerator/Denominator)	2016
	First Year Annual and Lifecycle ExAnte(Pre-Evaluation) Gas, Electric, and Demand Savings (Gross and Net)					
S1: Energy Savings	Gross Therm for Agricultural	264	655,844	1,371,872		
	Net Therm for Agricultural	265	400,312	889,092		
	Gross Therm LifeCycle for Agricultural	270	3,437,678	8,648,090		
	Net Therm LifeCycle for Agricultural	271	2,091,128	5,583,216		
GHG	**Greenhouse Gas (MT CO2) Savings, reported on an annual basis**					
	Gross Gas CO2	272	3,953	8,177		
P1: Penetration of energy efficiency programs in the eligible market	**Agricultural Sector Participants relative to eligible population for Small, Medium, and Large Customer**					
	Percent of eligible population for Small Customer in Agricultural Sector	275	0.00%	0.00%	**N** # Agricultural Participants - Small **D** # Agricultural Customer Small<10,000 therms	0 1,198
	Percent of eligible population for Medium Customer in Agricultural Sector	274	1.2%	0.7%	**N** # Agricultural Participants - Medium **D** # Agricultural Customers 10,000<=medium<=50,000 therms	6 498
	Percent of eligible population for Large Customer in Agricultural Sector	273	5.09%	7.69%	**N** # Agricultural Participants - Large **D** # Agricultural Customers Large>50,000 therms	14 275
Cost per unit saved	**Levelized Cost of Energy Efficiency per Therm for Industrial**					
	Levelized PAC Cost	278	0.32	0.34	**N** (PAC cost * Gas benefits)/Total Benefits **D** LifeCycleNetTherm	664,577 2,091,128
	Levelized TRC Cost	281	0.44	0.48	**N** (TRC cost * Gas benefits)/Total Benefits **D** LifeCycleNetTherm	925,993 2,091,128

**For AG1- AG Therm Savings exclude missing BA_IDs for AG Customers (BA_ID level) because participant counts are based on the bill account level.
**CO2 includes at the ClaimID Level
**GrossGasCO2 = GrossElecCO2 + GrossGasCO2
**RW- ReportingWarehouse, EE Claim Database; CIS-Customer Information System; BA_ID (Service Account)

SoCalGas Agricultural (A)

Metric Type	Final Common Metric or Indicator	Index	2016	2017	2017
	First Year Annual and Lifecycle ExAnte(Pre-Evaluation) Gas, Electric, and Demand Savings (Gross and Net)				
S1: Energy Savings	Gross Therm for Agricultural	264	655,844	1,371,872	
	Net Therm for Agricultural	265	400,312	889,092	
	Gross Therm LifeCycle for Agricultural	270	3,437,678	8,648,090	
	Net Therm LifeCycle for Agricultural	271	2,091,128	5,583,216	
GHG	**Greenhouse Gas (MT CO2) Savings, reported on an annual basis**				
	Gross Gas CO2	272	3,953	8,177	
P1: Penetration of energy efficiency programs in the eligible market	**Agricultural Sector Participants relative to eligible population for Small, Medium, and Large Customer**				
	Percent of eligible population for Small Customer in Agricultural Sector	275	0.00%	0.00%	0 1,283
	Percent of eligible population for Medium Customer in Agricultural Sector	274	1.2%	0.7%	3 405
	Percent of eligible population for Large Customer in Agricultural Sector	273	5.09%	7.69%	18 234
Cost per unit saved	**Levelized Cost of Energy Efficiency per Therm for Industrial**				
	Levelized PAC Cost	278	0.32	0.34	1,870,948 5,583,216
	Levelized TRC Cost	281	0.44	0.48	2,682,193 5,583,216

**For AG1- AG Therm Savings exclude missing BA_IDs for AG Customers (BA_ID level) because participant counts are based on the bill account level.
**CO2 includes at the ClaimID Level
**GrossGasCO2 = GrossElecCO2 + GrossGasCO2
**RW- ReportingWarehouse, EE Claim Database; CIS-Customer Information System; BA_ID (Service Account)

SoCalGas Agricultural (A)

Metric Type	Final Common Metric or Indicator	Index	2016	2017	Assumptions-Notes
	First Year Annual and Lifecycle ExAnte(Pre-Evaluation) Gas, Electric, and Demand Savings (Gross and Net)				
S1: Energy Savings	Gross Therm for Agricultural	264	655,844	1,371,872	RW's AG Primary Sector's therm savings where ClaimID is not null
	Net Therm for Agricultural	265	400,312	889,092	
	Gross Therm LifeCycle for Agricultural	270	3,437,678	8,648,090	
	Net Therm LifeCycle for Agricultural	271	2,091,128	5,583,216	
GHG	**Greenhouse Gas (MT CO2) Savings, reported on an annual basis**				CEDAR's CET Annual Report Output file:(GasCO2+ElecCO2) with ClaimIDs in AG PrimarySector where ClaimID is not null
	Gross Gas CO2	272	3,953	8,177	
	Agricultural Sector Participants relative to eligible population for Small, Medium, and Large Customer				
P1: Penetration of energy efficiency programs in the eligible market	Percent of eligible population for Small Customer in Agricultural Sector	275	0.00%	0.00%	Numerators: RW's AG Primary Sector where ClaimID is not null with BA_IDs for SML Denominators: CIS's Commercial NAICS code to identify AG Customer by SML sizes.
	Percent of eligible population for Medium Customer in Agricultural Sector	274	1.2%	0.7%	
	Percent of eligible population for Large Customer in Agricultural Sector	273	5.09%	7.69%	
	Levelized Cost of Energy Efficiency per Therm for Industrial				
Cost per unit saved	Levelized PAC Cost	278	0.32	0.34	CEDAR's CET Annual Report Output file: Numerator=TRC or PAC Cost * Gas Benefit)/Total Benefits
	Levelized TRC Cost	281	0.44	0.48	CEDAR's CET Annual Report Output file:Denominator: LifeCycleNetTherm

**For AG1- AG Therm Savings exclude missing BA_IDs for AG Customers (BA_ID level) because participant counts are based on the bill account level.
**CO2 includes at the ClaimID Level
**GrossGasCO2 = GrossElecCO2 + GrossGasCO2
**RW- ReportingWarehouse, EE Claim Database; CIS-Customer Information System; BA_ID (Service Account)

Codes and Standards

SoCalGas

August 6, 2018

SoCalGas - Codes & Standards

Intervention Strategy	Final Common Metric or Indicator	Ref	Name	Unit	Statewide Baseline (2016 Benchmark)	Statewide Baseline (2017 Benchmark)	Short-Term Targets (2018-2020)	Mid-Term Targets (2021-2023)	Long-Term Targets (2024-2025)	Notes:
Capturing energy savings (for any resource program or resource subcomponent of a traditioinally non-resource program that begins measuring energy and demand reduction benefits)	Net Energy Savings: GWH, M Therms and MW (demand)	CS1-1	(M) First year savings: Gross	GWH	1,402	1,889	1,245	1,327	1,323	2018-2030 taken from D.17-09-025, Tables 1, 2, and 3, p. 37-39; 2016-2017 from CEDARS (spillover not included). Values summed across all four IOUs.
				MW	272	346	286	389	415	
				M Therms	29	42	44	56	55	
Activity in advocating for building codes (T-24) tied to adoption in CA	Number of measures supported by CASE studies in rulemaking cycle (current work)	CS2-1	(I) Measures supported by CASE	Count	12	23	12	12	12	Baseline for measures supported and measures adopted is for entire 3 year cycle, rather than annual. Targets for measures supported and measures adopted are also for 3 year cycle rather than annual.
	Number of measures adopted by CEC in rulemaking cycle (indicator of past work)	CS2-2	(I) Measures adopted by CEC	Count	12	0	12	12	12	
Activity in advocating for appliance, lighting and equipment standards tied to	Number of T-20 measures supported by CASE studies in rulemaking cycle (current work)	CS3-1	(I) T-20 measures supported by CASE	Count	0	5	10	10	10	Baseline for measures supported and measures adopted is for 3 years, rather than annual. Targets for measures supported and measures adopted are also for 3 year period than annual.
	Number of measures adopted by CEC in current year	CS3-2	(I) Measures adopted by CEC	Count	4	0	10	10	10	
Activity in advocating for codes and standards tied to adoption at the federal level	Number of federal standards adopted for which a utility advocated (IOUs to list advocated activites)	CS4-1	(I) Standards adopted	Count	22	7	21	20	20	Baselines and targets are annual.
	Percent of federal standards adopted for which a utility advocated (#IOU supported / # DOE adopted)	CS4-2	(I) # IOUs supported ÷ # DOE adopted	Count	100%	100%	100%	100%	100%	
Local government participation and success in adoption of reach codes	The number of local government Reach Codes implemented (this is a joint IOU and REN effort)	CS5-1	(I) Reach Code ordinances implemented	Count	6	12	5	5	5	Targets are total for a three-year Title 24 code cycle. Accomplishments will be reported from the CEC Reach Codes website (http://www.energy.ca.gov/title24/2013standards/ordinances/). Reach Code Targets based on a percent reduction (currently 22 reach codes in Northern CA compared to 4 reach codes in Southern CA) 4/22 approx. 20%. Originally proposed number of reach codes was 25 statewide. 20% of 25 = 5.
Compliance Improvement	Number of training activities (classes, webinars) held, number of market actors	CS6-1	(M) Number of training activities	Count	NA	118	85	85	85	118 live training sessions and 20 webinars in 2017; short, mid, and long-term targets are annual
	participants by segment (e.g. building officials, builders, architects, etc.) and the the total size (number of the target audience) by sector.	CS6-2	(M) Number of participants	Count	NA	3000	1500	1500	1500	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 (i.e., building officials, builders, architects, HERS raters) and target size of each segment will be provided during first metrics reporting.
	Increase in code compliance knowledge pre/post training	CS6-3	(M) Knowledge score	Score	NA	20%	20%	20%	20%	Code compliance knowledge increase will be tested via pre and post training questionaires. Surveys will be conducted for training that lasts longer than three hours (in order to preserve time for instruction in shorter training sessions). Questionaires will be made available during the first metrics reporting.

For SoCalGas Local Compliance Improvement, the following assumptions are applied:

Compliance Improvement Trainings: (Attendance was approximately 50% of Baseline and kept metric for knowledge swing)

- Statewide Virtual Classes – 33
- SoCalGas C&S Classes @ ERC – 9
- Joint SoCalGas/SCE Classes – 24
- Total Classes – 86

Emerging Technologies

SoCalGas

August 6, 2018

Sector:	**Emerging Technologies**	**Emerging Technologies**
Common Problem:	**1 - Need to track Technology Priority Map (TPM) development**	**1- Need to track TPM updating activity**
Reference #:	**253**	**254**
Metric:	**ETP-M1: 6* TPMs (gas and electric combined) initiated within the first 3 years (including 1 Technology-focused Pilot TPM identifying market barriers for a diverse range of high-impact technologies through studies, and subsequently breaking down identified barriers via cooperative projects initiated in coordination with WE&T, ME&O, and other relevant IOU programs)** *** This number will be updated once all third party contracts have been awarded.**	**ETP-M2: 3 TPMs updated within the first 3 years**

	Data	Unit	Assumptions and Notes	Data	Unit	Assumptions and Notes
Baseline (2016)						
Numerator	N/A	N/A	N/A	N/A	N/A	N/A
Denominator	N/A	N/A	N/A	N/A	N/A	N/A
Baseline	N/A	# TPM		N/A	# TPM	
2018 Targets						
	N/A	N/A	N/A	N/A	N/A	N/A
Denominator	N/A	N/A	N/A	N/A	N/A	N/A
Target	2	# TPM	Data for this metric will be gathered from 3P TPM Implementers annually.	1	# TPM	Data for this metric will be gathered from 3P TPM Implementers annually.
2019 Targets						
Denominator	N/A	N/A	N/A	N/A	N/A	N/A
Target	2	# TPM	Data for this metric will be gathered from 3P TPM Implementers annually.	1	# TPM	Data for this metric will be gathered from 3P TPM Implementers annually.
2020 Targets						
Numerator	N/A	N/A	N/A	N/A	N/A	N/A
Denominator	N/A	N/A	N/A	N/A	N/A	N/A
Target	2	# TPM	Data for this metric will be gathered from 3P TPM Implementers annually.	1	# TPM	Data for this metric will be gathered from 3P TPM Implementers annually.
Mid-Term Targets (2021 - 2023)						
Numerator	N/A	N/A	N/A	N/A	N/A	N/A
Denominator	N/A	N/A	N/A	N/A	N/A	N/A
Target	TBD	# TPM	Data for this metric will be gathered from 3P TPM Implementers annually.	TBD	# TPM	Data for this metric will be gathered from 3P TPM Implementers annually.
Long-Term Targets (2024 - 2025)						
Numerator	N/A	N/A	N/A	N/A	N/A	N/A
Denominator	N/A	N/A	N/A	N/A	N/A	N/A
Target	TBD	# TPM	Data for this metric will be gathered from 3P TPM Implementers annually.	TBD	# TPM	Data for this metric will be gathered from 3P TPM Implementers annually.
Note(s)	● 1) Technology priority maps (TPMs) are defined in the Business Plan 2) Technology-focused pilot: See ETP-M7			● 1) Technology priority maps (TPMs) are defined in the Business Plan		

Sector:	**Emerging Technologies**	**Emerging Technologies**
Common Problem:	**1 - Need to track project activity**	**1 - Need to track event activity**
Reference #:	**255**	**256**
Metric:	**ETP-M3: 183* projects initiated within the first 3 years** ***This averages 61 projects per year; this number will be updated once all third party contracts have been awarded.**	**ETP-M4: Host 15 outreach events with technology developers with products <1 year from commercialization within the first 3 years, including new technology vendors, manufacturers, and entrepreneurs.**

	Data	Unit	Assumptions and Notes	Data	Unit	Assumptions and Notes
Baseline (2016)						
Numerator	N/A	N/A	N/A	N/A	N/A	N/A
Denominator	N/A	N/A	N/A	N/A	N/A	N/A
Baseline	N/A	# TPM		N/A	# TPM	
2018 Targets						
	N/A	N/A	N/A	N/A	N/A	N/A
Denominator	N/A	N/A	N/A	N/A	N/A	N/A
Target	61	# TPM	Data for this metric will be gathered from 3P TPM Implementers annually.	2	# TPM	5 events total for short-term. Split out to 2 in 2018, 2 in 2019, and 3 in 2020. Data for this metric will be gathered from TPM Implementers annually based on methodology to be determined.
2019 Targets						
Denominator	N/A	N/A	N/A	N/A	N/A	N/A
Target	61	# TPM	Data for this metric will be gathered from 3P TPM Implementers annually.	2	# TPM	5 events total for short-term. Split out to 2 in 2018, 2 in 2019, and 3 in 2020. Data for this metric will be gathered from TPM Implementers annually based on methodology to be determined.
2020 Targets						
Numerator	N/A	N/A	N/A	N/A	N/A	N/A
Denominator	N/A	N/A	N/A	N/A	N/A	N/A
Target	61	# TPM	Data for this metric will be gathered from 3P TPM Implementers annually.	3	# TPM	5 events total for short-term. Split out to 2 in 2018, 2 in 2019, and 3 in 2020. Data for this metric will be gathered from TPM Implementers annually based on methodology to be determined.
Mid-Term Targets (2021 - 2023)						
Numerator	N/A	N/A	N/A	N/A	N/A	N/A
Denominator	N/A	N/A	N/A	N/A	N/A	N/A
Target	TBD	# TPM	Data for this metric will be gathered from 3P TPM Implementers annually.	TBD	# TPM	Data for this metric will be gathered from TPM Implementers annually based on methodology to be determined.
Long-Term Targets (2024 - 2025)						
Numerator	N/A	N/A	N/A	N/A	N/A	N/A
Denominator	N/A	N/A	N/A	N/A	N/A	N/A
Target	TBD	# TPM	Data for this metric will be gathered from 3P TPM Implementers annually.	TBD	# TPM	Data for this metric will be gathered from TPM Implementers annually based on methodology to be determined.

Note(s)	● 1) Technology priority maps (TPMs) are defined in the Business Plan 2) Projects are considered "initiated" when project budget has been approved and funding allocated.	● 1) "Technology developers" – Any organization or company that develops energy efficiency and demand response technology suitable for inclusion in PA incentive programs 2) "Events" – ET Summit, webinars, and in-person meetings, as proposed by ETP implementers.

Sector:	**Emerging Technologies**	**Emerging Technologies**
Common Problem:	**1 - Need to track event activity**	**1 - ETP is not utilizing other programs to confront barriers to market penetration**
Reference #:	**257**	**258**
Metric:	**ETP-M5: Host 6 outreach events with technology developers with products <5 years from commercialization within the first 3 years, including new technology vendors, manufacturers, and entrepreneurs.**	**ETP-M6: 2* projects initiated with cooperation from other internal IOU programs associated with each Technology-focused Pilot *This number may be updated according to the results of the TPM development working group process**

	Data	Unit	Assumptions and Notes	Data	Unit	Assumptions and Notes
Baseline (2016)						
Numerator	N/A	N/A	N/A	N/A	N/A	
Denominator	N/A	N/A	N/A	N/A	N/A	
Baseline	N/A	# TPM		N/A	# projects	
2018 Targets						
	N/A	N/A	N/A	N/A	N/A	
Denominator	N/A	N/A	N/A	N/A	N/A	
Target	See ETP-M4	# TPM	See ETP-M4	0	# projects	2 total in short-term. Assume 0 in 2018, 1 in 2019, and 1 in 2020.
2019 Targets						
Denominator	N/A	N/A	N/A	N/A	N/A	
Target	See ETP-M4	# TPM	See ETP-M4	1	# projects	2 total in short-term. Assume 0 in 2018, 1 in 2019, and 1 in 2020.
2020 Targets						
Numerator	N/A	N/A	N/A	N/A	N/A	
Denominator	N/A	N/A	N/A	N/A	N/A	
Target	See ETP-M4	# TPM	See ETP-M4	1	# projects	2 total in short-term. Assume 0 in 2018, 1 in 2019, and 1 in 2020.
Mid-Term Targets (2021 - 2023)						
Numerator	N/A	N/A	N/A	N/A	N/A	
Denominator	N/A	N/A	N/A	N/A	N/A	
Target	See ETP-M4	# TPM	See ETP-M4	TBD	# projects	
Long-Term Targets (2024 - 2025)						
Numerator	N/A	N/A	N/A	N/A	N/A	
Denominator	N/A	N/A	N/A	N/A	N/A	
Target	See ETP-M4	# TPM	See ETP-M4	TBD	# projects	

Note(s)

- 1) "Technology developers" – Any organization or company that develops energy efficiency and demand response technology suitable for inclusion in PA incentive programs. 2) "Events" – ET Summit, webinars, and in-person meetings, as proposed by ETP implementers.
- 1) "Cooperation" is defined as a process by which all parties work towards a mutual objective.

Sector:	**Emerging Technologies**	**Emerging Technologies**
Common Problem:	**1 - Need to track Technology-focused Pilot (TFP) TPM efforts**	**1 - Savings are not being tracked**
Reference #:	**259**	**260**
Metric:	**ETP-M7: 3* Technology-focused Pilots initiated as part of the TFP TPM within the first 3 years** ***This number may be updated according to the results of the TPM development working group process**	**ETP-T1: Prior year: % of new measures ac**

	Data	Unit	Assumptions and Notes	Data	Unit
Baseline (2016)					
Numerator	N/A	N/A		TBD	TBD
Denominator	N/A	N/A		TBD	TBD
Baseline	N/A	# projects		TBD	TBD
2018 Targets					
	N/A	N/A		TBD	TBD
Denominator	N/A	N/A		TBD	TBD
Target	1	# projects	3 total in short-term. Assume 1 in 2018, 1 in 2019, and 1 in 2020.	TBD	TBD
2019 Targets					
Denominator	N/A	N/A		TBD	TBD
Target	1	# projects	3 total in short-term. Assume 1 in 2018, 1 in 2019, and 1 in 2020.	TBD	TBD
2020 Targets					
Numerator	N/A	N/A		TBD	TBD
Denominator	N/A	N/A		TBD	TBD
Target	1	# projects	3 total in short-term. Assume 1 in 2018, 1 in 2019, and 1 in 2020.	TBD	TBD
Mid-Term Targets (2021 - 2023)					
Numerator	N/A	N/A		TBD	TBD
Denominator	N/A	N/A		TBD	TBD
Target	TBD	# projects		TBD	TBD
Long-Term Targets (2024 - 2025)					
Numerator	N/A	N/A		TBD	TBD
Denominator	N/A	N/A		TBD	TBD
Target	TBD	# projects		TBD	TBD

Note(s)

● 1) A technology-focused pilot (TFP) will identify market barriers for a diverse range of high-impact technologies through studies, and subsequently breaking down identified barriers in collaboration with other relevant programs . 2) "Technology-focused Pilot"- Pilots that have been proposed by 3Ps in response to PA needs and that have been approved through the existing ED Ideation Process. These includes TFPs conducted in cooperation with other programs.

● Per ED: Baseline, methodology, and targ evaluators can make recommendations o to be determined at the same time as par savings are involved, ED evaluators need t then.

● ETP-T1 through ETP -T8 are in a table tit from the metrics ETP-M1 through ETP-M7 A of D.18-05-041. PAs had proposed that however the commission ruled that these

Sector:
Common Problem:
Reference #:
Metric: **ided to the portfolio that were previously ETP technologies**

	Assumptions and Notes
Baseline (2016)	
Numerator	
Denominator	
Baseline	Per ED, to be determined by an ED study
2018 Targets	
Denominator	
Target	Per ED, to be determined by an ED study
2019 Targets	
Denominator	
Target	Per ED, to be determined by an ED study
2020 Targets	
Numerator	
Denominator	
Target	Per ED, to be determined by an ED study
Mid-Term Targets (2021 - 2023)	
Numerator	
Denominator	
Target	Per ED, to be determined by an ED study
Long-Term Targets (2024 - 2025)	
Numerator	
Denominator	
Target	Per ED, to be determined by an ED study

Note(s)

;ets need to be determined by ED evaluation contractors. ED
n what suitable targets would be. ETP Tracking Metrics 1 – 5 need
t of calculating savings (ETP-T5), and because ETP impact and
:o make these determinations. Baselines will not be available until

led "Emerging Technologies Tracking (Reporting)" and are separate
' in the table titled "Emerging Technologies Metrics" in Attachment
tracking metrics have no targets in the July 14, 2017 metrics filing,
tracking metrics must have targets.

Sector:	**Emerging Technologies**	**Emerging Technologies**
Common Problem:	**1 - Savings are not being tracked**	**1 - Savings are not being tracked**
Reference #:	**261**	**262**
Metric:	**ETP-T2: Prior Year: # of new measures added to the portfolio that were previously ETP technologies**	**ETP-T3: Prior year: % of new codes or standards that were previously ETP technologies**

	Data	Unit	Assumptions and Notes	Data	Unit	Assumptions and Notes
Baseline (2016)						
Numerator	TBD	TBD		TBD	TBD	
Denominator	TBD	TBD		TBD	TBD	
Baseline	TBD	TBD	Per ED, to be determined by an ED study	TBD	TBD	Per ED, to be determined by an ED study
2018 Targets						
	TBD	TBD		TBD	TBD	
Denominator	TBD	TBD		TBD	TBD	
Target	TBD	TBD	Per ED, to be determined by an ED study	TBD	TBD	Per ED, to be determined by an ED study
2019 Targets						
Denominator	TBD	TBD		TBD	TBD	
Target	TBD	TBD	Per ED, to be determined by an ED study	TBD	TBD	Per ED, to be determined by an ED study
2020 Targets						
Numerator	TBD	TBD		TBD	TBD	
Denominator	TBD	TBD		TBD	TBD	
Target	TBD	TBD	Per ED, to be determined by an ED study	TBD	TBD	Per ED, to be determined by an ED study
Mid-Term Targets (2021 - 2023)						
Numerator	TBD	TBD		TBD	TBD	
Denominator	TBD	TBD		TBD	TBD	
Target	TBD	TBD	Per ED, to be determined by an ED study	TBD	TBD	Per ED, to be determined by an ED study
Long-Term Targets (2024 - 2025)						
Numerator	TBD	TBD		TBD	TBD	
Denominator	TBD	TBD		TBD	TBD	
Target	TBD	TBD	Per ED, to be determined by an ED study	TBD	TBD	Per ED, to be determined by an ED study

Note(s)

Per ED: Baseline, methodology, and targets need to be determined by ED evaluation contractors. ED evaluators can make recommendations on what suitable targets would be. ETP Tracking Metrics 1 – 5 need to be determined at the same time as part of calculating savings (ETP-T5), and because ETP impact and savings are involved, ED evaluators need to make these determinations. 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 ETP-M1 through ETP-M7 in the table titled "Emerging Technologies Metrics" in Attachment A of D.18-05-041. PAs had proposed that tracking metrics have no targets in the July 14, 2017 metrics filing, however the commission ruled that these tracking metrics must have targets.

● Per ED: Baseline, methodology, and targets need to be determined by ED evaluation contractor. ETP-T1 through ETP -T8 are in a table titled "Emerging Technologies Tracking (Reporting)" and are separate from the metrics ETP-M1 through ETP-M7 in the table titled "Emerging Technologies Metrics" in Attachment A of D.18-05-041. PAs had proposed that tracking metrics have no targets in the July 14, 2017 metrics filing, however the commission ruled that these tracking metrics must have targets.

Sector:	**Emerging Technologies**	**Emerging Technologies**
Common Problem:	**1 - Savings are not being tracked**	**1 - Savings are not being tracked**
Reference #:	**263**	**264, 265**
Metric:	**ETP-T4: Prior Year: # of new codes and standards that were previously ETP technologies**	**ETP-T5: Savings of measures currently in the portfolio that w gross and net for all measures, with ex-post where available**

	Data	Unit	Assumptions and Notes	Lifecycle Net kWh	Lifecycle Net kW	Unit
Baseline (2016)						
Numerator	TBD	TBD		TBD	TBD	TBD
Denominator	TBD	TBD		TBD	TBD	TBD
Baseline	TBD	TBD	Per ED, to be determined by an ED study	TBD	TBD	TBD
2018 Targets						
	TBD	TBD		TBD	TBD	TBD
Denominator	TBD	TBD		TBD	TBD	TBD
Target	TBD	TBD	Per ED, to be determined by an ED study	TBD	TBD	TBD
2019 Targets						
Denominator	TBD	TBD		TBD	TBD	TBD
Target	TBD	TBD	Per ED, to be determined by an ED study	TBD	TBD	TBD
2020 Targets						
Numerator	TBD	TBD		TBD	TBD	TBD
Denominator	TBD	TBD		TBD	TBD	TBD
Target	TBD	TBD	Per ED, to be determined by an ED study	TBD	TBD	TBD
Mid-Term Targets (2021 - 2023)						
Numerator	TBD	TBD		TBD	TBD	TBD
Denominator	TBD	TBD		TBD	TBD	TBD
Target	TBD	TBD	Per ED, to be determined by an ED study	TBD	TBD	TBD
Long-Term Targets (2024 - 2025)						
Numerator	TBD	TBD		TBD	TBD	TBD
Denominator	TBD	TBD		TBD	TBD	TBD
Target	TBD	TBD	Per ED, to be determined by an ED study	TBD	TBD	TBD

Note(s)

●Per ED: Baseline, methodology, and targets need to be determined by ED evaluation contractors. ED evaluators can make recommendations on what suitable targets would be. ETP Tracking Metrics 1 – 5 need to be determined at the same time as part of calculating savings (ETP-T5), and because ETP impact and savings are involved, ED evaluators need to make these determinations. 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 ETP-M1 through ETP-M7 in the table titled "Emerging Technologies Metrics" in Attachment A of D.18-05-041. PAs had proposed that tracking metrics have no targets in the July 14, 2017 metrics filing, however the commission ruled that these tracking metrics must have targets.

● Per ED: Baseline, methodology, and targets need to be deter
make recommendations on what suitable targets would be. E
same time as part of calculating savings (ETP-T5), and because
need to make these determinations. Baselines will not be avai

● ETP-T1 through ETP -T8 are in a table titled "Emerging Techn
metrics ETP-M1 through ETP-M7 in the table titled "Emerging
PAs had proposed that tracking metrics have no targets in the
ruled that these tracking metrics must have targets.

Sector:
Common Problem:
Reference #:
Metric: **ere supported by ETP, added since 2009. Ex-ante with**

	Assumptions and Notes
Baseline (2016)	
Numerator	
Denominator	
Baseline	Per ED, to be determined by an ED study
2018 Targets	
Denominator	
Target	Per ED, to be determined by an ED study
2019 Targets	
Denominator	
Target	Per ED, to be determined by an ED study
2020 Targets	
Numerator	
Denominator	
Target	Per ED, to be determined by an ED study
Mid-Term Targets (2021 - 2023)	
Numerator	
Denominator	
Target	Per ED, to be determined by an ED study
Long-Term Targets (2024 - 2025)	
Numerator	
Denominator	
Target	Per ED, to be determined by an ED study

Note(s)

rmined by ED evaluation contractors. ED evaluators can
TP Tracking Metrics 1 – 5 need to be determined at the
ETP impact and savings are involved, ED evaluators
lable until then.
ologies Tracking (Reporting)" and are separate from the
Technologies Metrics" in Attachment A of D.18-05-041.
July 14, 2017 metrics filing, however the commission

Sector:	**Emerging Technologies**	**Emerging Technologies**
Common Problem:	**1 - Input from other groups is not being tracked**	**1 - Input from other groups is not being tracked**
Reference #:	**266, 267, 268, 269**	**270, 271, 272, 273**
Metric:	**ETP-T6: Number of ETCC project ideas submitted outside of TPM process by source. [Note: Categories of sources (e.g. PA, national lab, manufacturer, technology incubator, etc.) will be developed collaboratively with ED, and self-reported by submitter.] Project source also labeled in the ETP database.**	**ETP-T7: Number of TPM project ideas by source, if available [Note: Categories of so manufacturer, technology incubator, etc.) will be developed collaboratively, and at judgment.] Project source also labeled in the ETP database.**

	PA	National Lab	Manufacturer	Entrepreneur	Unit	Assumptions and Notes	PA	National Lab	Manufacturer	Entrepreneur
Baseline (2016)										
Numerator	N/A	N/A	N/A	N/A	N/A		N/A	N/A	N/A	N/A
Denominator	N/A	N/A	N/A	N/A	N/A		N/A	N/A	N/A	N/A
Baseline	N/A	N/A	N/A	N/A	# ETCC project ideas		N/A	N/A	N/A	N/A
2018 Targets										
	N/A	N/A	N/A	N/A	N/A		N/A	N/A	N/A	N/A
Denominator	N/A	N/A	N/A	N/A	N/A		N/A	N/A	N/A	N/A
Target	1	0	0	0	# ETCC project ideas		2	0	0	0
2019 Targets										
Denominator	N/A	N/A	N/A	N/A	N/A		N/A	N/A	N/A	N/A
Target	1	1	1	0	# ETCC project ideas		2	1	1	0
2020 Targets										
Numerator	N/A	N/A	N/A	N/A	N/A		N/A	N/A	N/A	N/A
Denominator	N/A	N/A	N/A	N/A	N/A		N/A	N/A	N/A	N/A
Target	2	1	1	1	# ETCC project ideas		2	1	1	1
Mid-Term Targets (2021 - 2023)										
Numerator	N/A	N/A	N/A	N/A	N/A		N/A	N/A	N/A	N/A
Denominator	N/A	N/A	N/A	N/A	N/A		N/A	N/A	N/A	N/A
Target	TBD	TBD	TBD	TBD	# ETCC project ideas		TBD	TBD	TBD	TBD
Long-Term Targets (2024 - 2025)										
Numerator	N/A	N/A	N/A	N/A	N/A		N/A	N/A	N/A	N/A
Denominator	N/A	N/A	N/A	N/A	N/A		N/A	N/A	N/A	N/A
Target	TBD	TBD	TBD	TBD	# ETCC project ideas		TBD	TBD	TBD	TBD

Note(s)

- Data for this metric will be gathered from 3P TPM Implementers annually. If ideas are submitted both outside and as part of the TPM-aligned research planning process, it can be reported under both ETP-T6 and ETP-T7. Ideas may be submitted by more than one source and will be counted under each.
- ETP-T1 through ETP-T8 are in a table titled "Emerging Technologies Tracking (Reporting)" and are separate from the metrics ETP-M1 through ETP-M7 in the table titled "Emerging Technologies Metrics" in Attachment A of D.18-05-041. PAs had proposed that tracking metrics have no targets in the July 14, 2017 metrics filing, however the commission ruled that these tracking metrics must have targets. "Submitted" refers to an idea submitted through a formal submission process.

- Data for this metric will be gathered from 3P TPM Implementers annually. If ideas a the TPM-aligned research planning process, it can be reported under both ETP-T6 an more than one source and will be counted under each.
- ETP-T1 through ETP-T8 are in a table titled "Emerging Technologies Tracking (Report ETP-M1 through ETP-M7 in the table titled "Emerging Technologies Metrics" in Attac proposed that tracking metrics have no targets in the July 14, 2017 metrics filing, hov tracking metrics must have targets. "Submitted" refers to an idea submitted through

Sector:
Common Problem:
Reference #:
Metric: **urces (e.g. PA, national lab,**
tributed by ETP based on ETP's expert

	Unit	Assumptions and Notes
Baseline (2016)		
Numerator	N/A	
Denominator	N/A	
Baseline	# TPM project ideas	
2018 Targets		
	N/A	
Denominator	N/A	
Target	# TPM project ideas	
2019 Targets		
Denominator	N/A	
Target	# TPM project ideas	
2020 Targets		
Numerator	N/A	
Denominator	N/A	
Target	# TPM project ideas	
Mid-Term Targets (2021 - 2023)		
Numerator	N/A	
Denominator	N/A	
Target	# TPM project ideas	
Long-Term Targets (2024 - 2025)		
Numerator	N/A	
Denominator	N/A	
Target	# TPM project ideas	

Note(s) re submitted both outside and as part of
d ETP-T7. Ideas may be submitted by

ing)" and are separate from the metrics
nment A of D.18-05-041. PAs had
wever the commission ruled that these
a formal submission process.

Sector: Emerging Technologies
Common Problem: 1 - Output from ETP is not explicitly aligned with long-term goals
Reference #: 274
Metric: ETP-T8: Mapping of ETP projects and technologies aligned with specific statewide goals, with specificity as to what aspect of each goal it is fulfilling. For example: "4 ETP projects are aligned with statewide ZNE-readiness" in addition to "a list of ETP projects aligned with ZNE-readiness are as follows:" Goals will also be labeled in the ETP database. A list of eligible goals will be developed collaboratively with ED.

	Data	Unit	Assumptions and Notes
Baseline (2016)			
Numerator	N/A	N/A	
Denominator	N/A	N/A	
Baseline	N/A	# lists	
2018 Targets			
	N/A	N/A	
Denominator	N/A	N/A	
Target	1	# lists	3 total in short-term. 1 per year.
2019 Targets			
Denominator	N/A	N/A	
Target	1	# lists	3 total in short-term. 1 per year.
2020 Targets			
Numerator	N/A	N/A	
Denominator	N/A	N/A	
Target	1	# lists	3 total in short-term. 1 per year.
Mid-Term Targets (2021 - 2023)			
Numerator	N/A	N/A	
Denominator	N/A	N/A	
Target	1	# lists	Average per year
Long-Term Targets (2024 - 2025)			
Numerator	N/A	N/A	
Denominator	N/A	N/A	
Target	1	# lists	Average per year

Note(s)

- Data for this metric will be gathered from 3P TPM Implementers. An ETP project may align with multiple statewide goals and will be listed under each goal. **
- ETP-T1 through ETP-T8 are in a table titled "Emerging Technologies Tracking (Reporting)" and are separate from the metrics ETP-M1 through ETP-M7 in the table titled "Emerging Technologies Metrics" in Attachment A of D.18-05-041. PAs had proposed that tracking metrics have no targets in the July 14, 2017 metrics filing , however the commission ruled that these tracking metrics must have targets. The "statewide goals" will be tracked will be developed and updated in collaboration with ED as needed. Projects are considered "initiated" when project budget has been approved and funding allocated.

Category	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
Lifecycle ex-ante Therm gross	480,467,409	522,106,297	693,662,150	726,398,072	815,488,291	904,578,510	890,489,936	955,961,779	939,593,818	925,505,244
Lifecycle ex-ante Therm net	422,174,997	475,290,840	581,627,763	603,160,246	681,047,027	758,933,807	744,845,233	787,910,199	777,143,957	763,055,383
C&S Lifecycle	310,139,719	375,159,806	366,302,933	366,302,933	422,657,230	479,011,528	464,922,953	464,922,953	464,922,953	450,834,379
Program Lifecycle ex-ante Therm gross	170,327,690	146,946,491	327,359,217	360,095,139	392,831,061	425,566,982	425,566,982	491,038,826	474,670,865	474,670,865
Program Lifecycle ex-ante Therm net	112,035,278	100,131,034	215,324,830	236,857,313	258,389,796	279,922,279	279,922,279	322,987,245	312,221,004	312,221,004
Gross Therm for Portfolio Level	38,456,156	39,877,543	52,000,000	55,000,000	61,000,000	67,000,000	66,000,000	73,000,000	71,000,000	70,000,000
Gross Therm without C&S	16,442,593	12,517,503	26,000,000	29,000,000	31,000,000	33,000,000	33,000,000	40,000,000	38,000,000	38,000,000
Net Therm for Portfolio Level	32,419,727	35,991,671	46,000,000	48,000,000	54,000,000	60,000,000	59,000,000	63,000,000	62,000,000	61,000,000
Net Therm without C&S	10,406,164	8,631,631	20,000,000	22,000,000	24,000,000	26,000,000	26,000,000	30,000,000	29,000,000	29,000,000
C&S Net Therm	22,013,563	27,360,040	26,000,000	26,000,000	30,000,000	34,000,000	33,000,000	33,000,000	33,000,000	32,000,000

Source: net therm savings taken from D.17-09-025
2016 and 2017 data reported in CEDARS

APPENDIX C

Advice No. 5349-A

CEDARS Filing Submission Receipt

CEDARS FILING SUBMISSION RECEIPT

The SCG portfolio filing has been submitted and is now under review. A summary of the filing is provided below.

PA: Southern California Gas (SCG)

Filing Year: 2019

Submitted: 18:20:18 on 31 Aug 2018

By: Paul Deang

Advice Letter Number: 5349

* Portfolio Filing Summary *

- TRC: 1.6361
- PAC: 4.1643
- TRC (no admin): 2.149
- PAC (no admin): 10.6087
- RIM: 4.1643
- Budget: $101,961,000.02

* Programs Included in the Filing *

- SCG3701: RES-Energy Advisor
- SCG3702: RES-Residential Energy Efficiency Program
- SCG3703: RES-SW-Plug Load and Appliances - POS
- SCG3705: RES-Home Upgrade Program
- SCG3706: RES-SW-Residential HVAC Upstream
- SCG3707: RES-SW-RNC
- SCG3708: COM-Energy Advisor
- SCG3710: COM-Calculated Incentives
- SCG3711: COM-Deemed Incentives
- SCG3712: COM-SW-NonRes HVAC Upstream
- SCG3713: IND-Energy Advisor
- SCG3714: IND-SEM
- SCG3715: IND-Calculated Incentives
- SCG3716: IND-Deemed Incentives
- SCG3717: AG-Energy Advisor
- SCG3719: AG-Calculated Incentives
- SCG3720: AG-Deemed Incentives

- SCG3721: ET-SW-Technology Development Support
- SCG3722: ET-SW-Technology Assessment Support
- SCG3723: ET-SW-Technology Introduction Support
- SCG3724: C&S-SW-Building; Codes & Compliance Advocacy
- SCG3725: C&S-SW-Appliance; Standards Advocacy
- SCG3726: C&S-Compliance; Enhancement
- SCG3727: C&S-Reach; Codes
- SCG3728: C&S-Planning; Coordination
- SCG3729: WE&T-Integrated; Energy Efficiency Training
- SCG3730: WE&T-SW-Connections;
- SCG3733: SW-ME&O-ME;&O;
- SCG3735: FIN-On-Bill Financing
- SCG3737: FIN-SW-New Financing Offerings
- SCG3738: PUB-SW-CA Department of Corrections Partnership
- SCG3739: PUB-SW-California Community College Partnership
- SCG3740: PUB-SW-UC/CSU/IOU Partnership
- SCG3741: PUB-SW-State of CA/IOU Partnership
- SCG3742: PUB-LA Co Partnership
- SCG3743: PUB-Kern Co Partnership
- SCG3744: PUB-Riverside Co Partnership
- SCG3745: PUB-San Bernardino Co Partnership
- SCG3746: PUB-Santa Barbara Co Partnership
- SCG3747: PUB-South Bay Cities Partnership
- SCG3748: PUB-San Luis Obispo Co Partnership
- SCG3749: PUB-San Joaquin Valley Partnership
- SCG3750: PUB-Orange County Cities Partnership
- SCG3751: PUB-SEEC Partnership
- SCG3753: PUB-Desert Cities Partnership
- SCG3754: PUB-Ventura County Partnership
- SCG3755: PUB-Energy Efficiency Pilots
- SCG3757: IND-Small Industrial Facility Upgrades
- SCG3758: PUB-K-12 Performance Program
- SCG3759: RES-On Demand Efficiency
- SCG3760: WE&T-HERS; Rater Training Advancement
- SCG3762: RES-CLEO
- SCG3763: RES-MF Direct Therm Savings
- SCG3764: RES-LivingWise
- SCG3765: RES-Manufactured Mobile Home
- SCG3771: SOL-IDEEA365
- SCG3772: EM&V-Evaluation; Measurement & Verification
- SCG3773: PUB-Public Sector Resource
- SCG3774: PUB-LG Regional Resource

- SCG3776: PUB-Gateway Cities Partnership
- SCG3777: PUB-San Gabriel Valley COG Partnership
- SCG3779: PUB-West Side Community Energy Partnership
- SCG3783: PUB-Western Riverside Energy Partnership
- SCG3793: COM-SW-Instant Rebates! Foodservice POS
- SCG3801: PUB-North Orange County Cities Partnership
- SCG3802: PUB-San Bernardino Regional Energy Partnership
- SCG3803: FIN-SW-California Hub for EE Financing
- SCG3804: COM-On-Premise Ozone Laundry
- SCG3805: COM-Direct Install Program
- SCG3807: COM-HOPPS-CRR Program
- SCG3808: RES-HOPPS-CWHMBS Program
- SCG3809: COM-AB793-CEMTL Program
- SCG3810: RES-AB793-REMTS Program
- SCG3813: COM-SW-Savings By Design
- SCG3814: COM-SW-Midstream Water Heating
- SCG3815: PUB-Calculated Incentives
- SCG3816: PUB-Deemed Incentives
- SCG3817: PUB-Direct Install Program
- SCG3818: PUB-SW-Water/Wastewater Pumping Program
- SCG3819: WE&T-SW-Career; & Workforce Readiness
- SCG3820: RES-Direct Install Program
- SCG3821: IND-Direct Install Program
- SCG3822: AG-Direct Install Program
- SCG3823: RES-SW-HVAC QI/QM
- SCG3824: RES-Behavioral Program
- SCG3825: COM-HVAC QI/QM
- SCG3826: COM-Lodging Program
- SCG3827: COM-Mixed Use Building Program
- SCG3828: RES-Home Intel Program
- SCG3829: RES-Marketplace
- SCG3830: RES-Retail Partnering
- SCG3831: RES-EE Kits
- SCG3832: RES-Pasadena Home Upgrade
- SCG3833: RES-Burbank Home Upgrade
- SCG3834: COM-LADWP Direct Install
- SCG3835: COM-Pasadena Direct Install
- SCG3836: RES-LADWP HVAC
- SCG3837: PUB-SW-Energy Atlas
- SCG-ESAP: Energy Savings Assistance Program
- SCG-ESPI: ESPI Incentives
- SCG-GRCL: GRC Labor Loaders