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ADVICE 3859-E
(U 338-E)

PUBLIC UTILITIES COMMISSION OF THE STATE OF CALIFORNIA
ENERGY DIVISION

SUBJECT: Southern California Edison Company's 2019 Energy Efficiency Program and Portfolio Annual Budget

In compliance with Decision (D.)18-05-041, Southern California Edison Company (SCE) hereby submits its 2019 Energy Efficiency (EE) and Integrated Demand Side Management (IDSM) Budget, forecast Total Resource Cost (TRC) and Program Administrator Cost (PAC) tests, and forecast energy savings for the program year 2019 for approval by the California Public Utilities Commission ("Commission" or "CPUC"). SCE also requests the Commission's approval to discontinue certain EE programs and sub-programs as detailed below.

PURPOSE

The purpose of this advice letter filing is to provide SCE's 2019 EE annual budget and associated forecasted energy savings and cost-effectiveness, summarized as follows:

- SCE proposed portfolio budget of $229.8 million for 2019, which is $23 million below SCE's EE Business Plan authorized amount.[1]
- SCE's 2019 Portfolio results in a forecasted TRC of 1.18 without Codes & Standards.
- Forecasted energy savings of 524 GWH, which is 119 percent of goal; and 93 MW of forecasted demand reduction, which is 102 percent of goal ***without*** Codes & Standards.
- Forecasted energy savings of 1,205 GWH, which is 118 percent of goal; and 248 MW demand reduction, which is 115 percent of goal ***including*** Codes & Standards.

[1] D.18-05-041, OP 12 approves SCE's business plan budget of $253.36 million for 2019.

In this Advice filing SCE is also requesting approval to discontinue the programs and sub-programs listed in Attachment E. SCE's rationale for seeking to discontinue each program or sub-program is also provided in Attachment E.

The supporting attachments to this filing are as follows:

1. Attachment A: Commission Developed ABAL Tables
2. Attachment B: CEDARS Filing Confirmation
3. Attachment C: Historical Annual Budget Advice Letter Tables
4. Attachment D: Sector Level Metrics
5. Attachment E: Description of Program Changes
6. Attachment F: Near Term EM&V Activities Identified

BACKGROUND

In D.15-10-028, the Commission ordered each EE Program Administrator (PA) to file a Tier 2 advice letter in September of each year with the PA's annual EE budget for the following year.[2] Each Annual Budget Advice Letter (ABAL) must contain the following:

- Portfolio cost effectiveness statement; and
- Application summary tables with forecast budgets and savings by sector and program/intervention.

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

- A forecasted TRC that meets or exceeds 1.25, except during program years 2019-2022, when the forecasted TRC must meet or exceed 1.0;
- Forecasted energy savings goals that meet or exceed Commission established savings goals for each PA;
- A forecasted budget that does not exceed the PA's annual budget in the approved business plans, or (if applicable) the revised annual budget in the current ABAL;
- Sector-level metrics; and
- A description of program and portfolio information.[3]

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[2] *See* D.15-10-028, Ordering Paragraph (OP) 4.
[3] *See* D.18-05-041, p. 124-129, &133.

Additionally, D.18-05-041 directed Commission staff to develop templates and further guidance as needed for ABAL submissions.[4] On July 19, 2018, Energy Division issued its guidance for the PAs ABAL submission that had been discussed at the July 10, 2018 Project Coordination Group (PCG) meeting among the Energy Division and the PAs. Per Energy Division guidance, the filing should also include:

- PA's Program Year Budget and Forecasted Savings;
- A Narrative of Program and Portfolio Information;
    - Proposed program changes
    - Proposed portfolio changes
    - Additional explanations if the PAs TRC is between 1.0 and 1.25 or if the forecasted energy savings is below Commission established goals
- PA's Budget True-up;
- PA's Savings True-up; and
- Investor Owned Utilities (IOU's) allocation for IDSM, pursuant to OP 10 of D.18-05-041

Energy Division has also directed the PAs to include the information contained in Attachment A as part of the ABAL filing at the July 10, 2018 PCG meeting. In addition, on August 30, 2018, Energy Division directed SCE to only upload the Historical Annual Budget Advice Letter Tables (Attachment C) onto the CEDARS website.[5] As such, Attachment C has been uploaded onto the CEDARs website. Attachment B provides the confirmation of SCE's CEDARS filing.

2019 EE PORTFOLIO SUMMARY

SCE's proposed portfolio and budget are designed to optimize each of the CPUC metrics, including but not limited to, cost-effectiveness, savings goals, budgets, and Commission-mandated budget caps and targets. To meet the Commission's requirements, SCE proposes significant modifications to its EE portfolio for 2019, as described herein. These modifications focus on delivering a cost-effective portfolio while beginning the transition to the new statewide and third-party model that the Commission has adopted for energy efficiency programs. SCE seeks to optimize its portfolio using three iterative strategies:

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[4] *See* D.18-05-041, OP 40.

[5] This direction was provided by Monda Dzvova from the Commission's Energy Division to SCE on August 30, 3018 during a telephone conference.

1. **Shift** – Increase the quantity of high cost-effective measures and decrease the quantity of low cost-effective measures.
2. **Invest** – Add budget to high cost-effective measures and programs and to new third-party programs.
3. **Reduce** – Reduce overhead and other non-resource-related costs, as well as the number of cost-ineffective programs.

Using the three strategies described above, SCE has optimized its portfolio to achieve higher than a 1.0 forecasted TRC value for 2019. The result of SCE's optimization efforts, SCE's portfolio budget, savings, and cost-effectiveness are detailed below.

SCE is proposing a portfolio cost-effectiveness and budget based upon currently-approved energy savings and cost-effectiveness inputs to its measure and program mix. While SCE's target cost-effectiveness is above 1.0, this mix and resulting cost-effectiveness may change as the Commission releases measure dispositions, Database for Energy Efficient Resources (DEER) updates, and other key inputs which could reduce or improve portfolio savings and cost-effectiveness. Significant negative changes to measures in high-volume programs, such as Primary Lighting could have a significant impact on SCE's ability to achieve its cost-effectiveness and goals targets. Early notifications of such dispositions would assist SCE in responding to such changes. SCE is committed to working closely with the Commission and its staff so that its measure and program forecasts utilize the most recent information, while also providing customers, vendors, and SCE sufficient certainty in making energy efficiency investment decisions. As cost-effectiveness inputs change, SCE will continue to evaluate the available mix of measures and make portfolio adjustments as necessary to cost-effectively meet savings goals.

One significant challenge that SCE faces is that while EE goals are updated only at predetermined intervals, EE measure savings and cost effectiveness inputs on which those goals are based can change at any time. This creates a misalignment between the allowable savings claims and the goals developed based on a different set of inputs. SCE will utilize strategies such as fund shifting, measure and program elimination, and modifications to rebate levels to help adjust to these impactful changes that occur between goal updates, but SCE also suggests that the PAs work with the Energy Division and other stakeholders to develop a method to better align goals, claimable savings, and cost-effectiveness inputs.

2019 EE PORTFOLIO BUDGET

Table 1 below provides SCE's forecast for 2019 EE portfolio budget. Please see Attachment A for SCE's 2019 EE Portfolio Budget in the Commission issued ABAL template.

Table 1: 2019 EE Portfolio Budget

Sector	Program Year (PY) Budget
Residential	$96,819,285
Commercial	$48,787,134
Industrial	$20,352,822
Agriculture	$2,943,042
Emerging Tech	$10,579,964
Public	$24,215,749
WE&T	$5,571,814
Finance	$1,968,842
OBF Loan Pool	$-
Codes and Standards	$8,939,320
IOU EM&V[6]	$9,667,142
Total	**$229,845,115**

SCE does not yet have authority to utilize unspent and uncommitted funds in the Energy Efficiency Finance Programs Balancing Account (EEFPBA) from the previous 2010-2016 EE program cycles, including On-Bill Financing (OBF) loan repayments, to fund the OBF loan program. To continue to fund the OBF loan program in 2018 and 2019, SCE will file a separate Advice Letter requesting authority to shift funding from prior cycles' unspent and uncommitted OBF loan pool funds to SCE's OBF program for 2018 and 2019. While SCE filed for approval of OBF program funding for 2018 in Advice Letter 3654-E, the Commission did not approve the AL in its Decision approving SCE's Business Plan.[7] SCE will also file a subsequent Advice Letter to convert its loan pool into a revolving fund for future years consistent with previous Commission direction for this program.[8]

Table 2 below provides SCE's 2019 EE Portfolio budget and Cost Recovery by Funding Source.

Table 2 - Budget and Cost Recovery by Funding Source

	2019
SCE's 2019 EE Portfolio Budget	$ 229,845,115

[6] EM&V Budget reflects only the portion of EM&V funds that remain with SCE. $287,822, $34,196, and $6,689 in EM&V funds have been respectively allocated to Southern California Regional Energy Network (SoCalREN), Tri-County Regional Energy Network (3CREN), and Lancaster Choice Energy (LCE).

[7] D.18-05-041, OP 12

[8] D.09-09-047, OP 40

SCE's Unspent/Uncommitted Program Carryover Funds from 2018	$	(1,672,495)
Lancaster Choice Energy's (LCE) Funding Request for 2019 EE Portfolio	$	401,318
LCE's EM&V	$	6,689
Tri-County Regional Energy Network's (3CREN) Funding Request for 2019 EE Portfolio	$	2,051,754
3CREN's EM&V	$	34,196
Southern California Regional Energy Network's (SoCalREN) Funding Request for 2019 EE Portfolio	$	17,269,325
SoCalREN's EM&V	$	287,822
Total PA's Funding Request for 2019 EE Portfolio	**$**	**248,223,723**

In addition to the $248.22 million requested for EE programs in 2019, SCE is requesting $9.36 million for 2019 funding to continue IDSM activities directed in D.18-05-041.[9] In D.18-05-041, the Commission approved SCE's Business Plan Application which included funding for IDSM activities. Further, the 3CREN and SoCalREN will be submitting their own Advice Letters for each PA's 2019 budget. Per Resolution E-4917, LCE's budget comes from SCE's budget; however, LCE will submit its own budget via CEDARS.

SCE is requesting an increase in the percentage allocation for evaluation, measurement, and verification (EM&V) as authorized by Decision 16-08-019.[10] The EM&V budget is allocated between the Commission and SCE. SCE is requesting this increase in the EM&V budget allocation because timely, reliable and predictable studies are necessary to meet local customer and market needs and to enhance the energy efficiency value proposition. Cost-effective programs require high customer engagement that deliver the right impacts for the electric grid. This requires SCE's evaluations to go beyond their current state and examine what program elements are meaningful to electric consumers and to the grid that serves them. With increased EM&V budget allocation, SCE will identify market and customer behavior levers to engage customers to serve the local grid, clean the environment, and integrate energy efficiency with broader clean energy choices. The Commission has already acknowledged areas of embedded evaluation practices and new technology-based solutions to make energy efficiency reliably measured.[11] Please see Attachment E for the near- term categories of EM&V activities SCE has identified for the additional budget request.

[9] D.18-05-041, OP 10
[10] D.16-08-019, OP 16
[11] D.16-08-019, p.80-81

2019 EE PORTFOLIO SAVINGS

Table 3 and Table 4 below provides SCE's forecast of energy savings and demand reduction for its 2019 EE portfolio. The energy savings from SCE's low-income EE program, the Energy Savings Assistance (ESA) program, are included in the figures below. Energy savings from SCE's Codes and Standards program are excluded in the figures below. Please see Attachment A for SCE's 2019 EE Portfolio Savings in the Commission issued ABAL template.

Table 3: 2019 EE Portfolio Savings (IOU Programs Only)

	2019 Forecast		
	Total	**CPUC Goal**	**% of 2019 Goal**
Energy Savings (Net GWH)	524	442	119%
Demand Reduction (Net MW)	93	91	102%

Table 4: 2019 EE Portfolio Savings (Including Codes & Standards)

	2019 Forecast		
	Total	**CPUC Goal**	**% of 2019 Goal**
Energy Savings (Net GWH)	1,205	1,014	118%
Demand Reduction (Net MW)	248	216	115%

2019 EE PORTFOLIO COST-EFFECTIVENESS

Table 5 below sets forth the results of the Total Resource Cost (TRC) test and Program Administrator Cost (PAC) test for SCE's 2019 EE portfolio. These estimates exclude impacts from SCE's Codes and Standards programs, and SCE's low-income EE program, the Energy Savings Assistance (ESA) program. Please see Attachment A for SCE's 2019 EE Portfolio TRC and PAC in the Commission issued ABAL template.

Table 5: 2019 EE Portfolio TRC and PAC (w/o Codes & Standards)

	2019 Forecast
TRC	1.18
PAC	1.46

METRICS

Pursuant to D.18-05-041, SCE provides sector-level metrics and their associated targets for program year 2019 in Attachment D using the format developed by the Energy Division. SCE also provides the required 2017 data associated with the metrics and targets.

PROPOSED PROGRAM AND PORTFOLIO CHANGES

Cost-effectiveness is a key consideration in SCE's development of its 2019 proposed EE portfolio and budget. As such, SCE's proposed portfolio is designed to maximize cost-effectiveness while also seeking to satisfy all other Commission metrics and working towards meeting a minimum forecasted cost-benefit ratio of 1.25 beginning no later than 2023.[12] For these reasons, SCE's proposed portfolio budget of $229.8 million is significantly lower than its most recently approved budget advice letter[13] of $333.3 million in 2017 and lower than the 2018 approved budget of $250.3 million.[14] To help meet the Commission's goals for energy efficiency, SCE is proposing to reduce its non-resource program portfolio, eliminate low-performing programs, and maximize savings from cost-effective programs and measures.

SCE also is working towards the implementation of third-party proposed, designed, and implemented programs as directed in D.18-01-004, including third-party delivered statewide programs. Solicitations are scheduled to begin in late 2018 for program implementation as early as 2019. To prepare for the implementation of new third-party designed and delivered programs, SCE's 2019 budget accounts for ramp-up funding for new programs in 2019. In addition, SCE has budgeted funds for the continued implementation of third-party energy efficiency programs and projects from previous years. SCE also increased its investment in its Emerging Technologies Program.

Finally, SCE reduced its administrative costs by over 45 percent from its 2018 budgets. In order to maintain a cost-effective portfolio, SCE is committed to managing its administrative and other non-resource-related costs while making sure there is appropriate oversight of its portfolio during and after the transition to the statewide and third-party program implementation model.

Program and Sub-Program Cancellation

SCE is requesting to discontinue the following programs that are not cost-effective as for reasons discussed in Attachment E.

Resource Programs

- Energy Upgrade California (Home Upgrade)
- IDEEA365 Program
- Cool Schools
- Commercial Utility Building Efficiency
- Energy Leader Partnership Program

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12 See D.18-05-041, COL 36

13 See SCE's Advice Letter 3465-E-B

14 In D.18-05-041, the Commission did not adopt SCE's 2018 Budget Advice Letter Budget request of $299.6 million and approved its 2018 Business Plan budget of $250.3 million.

- American Reinvestment Recovery Act (ARRA)-Originated Financing. Also known “Empower Energy Efficiency Program.”

Non-Resource Programs

- Cool Planet
- Lighting Market Transformation
- Lighting Innovation Program
- WE&T Planning
- WE&T – Mobile Energy Unit
- WE&T – Community Language Efficiency Outreach
- Sustainable Communities Pilot Program
- Energy Efficiency Integrated Demand Side Management Program

Program Realignments

- Strategic Energy Management
- Commercial Continuous Energy Improvement
- Agricultural Continuous Energy Improvement
- Industrial Continuous Energy Improvement

SCE is proposing to eliminate one Workforce Education and Training (WE&T) program and two sub-programs to improve the overall cost-effectiveness of SCE’s overall energy efficiency portfolio. Pursuant to current Commission requirements on portfolio cost-effectiveness, the WE&T programs provide no claimable resource value due to the inability to directly link the results of such programs to energy efficiency resource impacts. As such, WE&T programs negatively impact SCE’s overall TRC as it can only be included as a “cost” in the TRC and PAC cost-effectiveness calculations. Therefore, SCE requests the Commission consider removing the costs of WE&T programs from the cost-effectiveness evaluations as part of the Market Transformation policy issues that will be resolved in Phase III of R.13-11-005. While SCE believes WE&T programs do not provide benefit in calculating portfolio cost effectiveness, SCE believes they are useful to customers and can transform the market over the longer term. As such, WE&T programs should be treated similar to Emerging Technology Program costs. The Commission approved removal of Emerging Technology Program costs from the cost-effectiveness evaluations in D.05-04-051.[15] In that Decision, in reference to Emerging Technology Program budgets, the Commission stated, “The usefulness of the TRC test as a primary indicator of cost-effectiveness is limited for certain programs which do not necessarily focus on the timing or type of resource needs of the utility.”[16] Similarly, SCE believes that while WE&T programs can provide value, it should not be considered in the TRC test. if the Commission were to remove WE&T costs from the TRC calculation in Phase III of R.13-11-005, SCE would plan to continue to offer the WE&T programs.

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[15] *See* D.05-04-051, Attachment 3, Rules II.8 and IV.9.
[16] *See* D.05-04-051, Attachment 3, Rule IV.9.

New Programs and Sub-Programs

As discussed above, SCE is working towards the utilization of third-party proposed, designed, and delivered implemented programs as directed in D.18-01-004. Because the third-party programs have not yet been proposed, SCE has created placeholders for programs that SCE plans to award at the conclusion of the third-party solicitation process. SCE has allocated $6.8 million in 2019 for ramp up costs for these future programs.

SCE anticipates performing solicitations for nearly all programs to meet the Commission's requirement that, at minimum, 60 percent of the EE program portfolio budget must eventually be used for programs proposed, designed, and implemented by third parties.[17] To accomplish this, SCE will conduct a multi-phased solicitation that will be implemented in stages beginning in the fourth quarter of 2018. In the interim, SCE is proposing the following new programs, in addition to the new third-party programs discussed above. Please see Attachment E for a description of the proposed programs.

- Midstream Point of Purchase
- Water Infrastructure and System Efficiency Program
- AB 793 Residential Pay for Performance
- Facilities Assessment Service Program
- National and International Standards (Codes & Standards sub-program)

Reduced and Expanded Programs

To achieve the Commission's requirement to meet a cost benefit ratio of 1.0 for 2019 and meet its energy savings goals, SCE optimized its portfolio by expanding programs with high cost effectiveness and reducing or eliminating programs with low cost effectiveness in order to achieve a higher TRC value. Please see Attachment E for program change descriptions of programs that will be expanded and reduced by more than 40 percent in 2019.

Expanded Programs

- Residential Direct Install
- Enhanced Retro-commissioning
- Select Local Government Programs
- Statewide Codes and Standards
- WE&T Connections
- Statewide Emerging Technologies Program (ETP)

Reduced Programs

- Nonresidential HVAC Program

[17] *See*. D.16-08-019, OP 12, p.111

- Industrial Deemed Energy Efficiency Program
- Agriculture Deemed Energy Efficiency Program
- Lodging Energy Efficiency Program
- Comprehensive Chemical Products
- Comprehensive Petroleum Refining
- Oil Production
- Select Local Government Programs

To support its 2018 and 2019 energy efficiency portfolios, SCE recently received approval to modify its Nonresidential HVAC program to eliminate non-cost-effective measures and to implement lower incentives on certain measures, thereby improving the cost-effectiveness of the program and the portfolio.[18] Note, however, that SCE kept some of the non-cost-effective measures in this program to help meet the overall savings goals of the portfolio.

SCE will also file an Advice Letter to add a revolving loan element to its On-Bill Financing program which will reduce the overall budget necessary in the portfolio.

SCE will also begin to ramp down existing third-party programs and transition to new third-party program designs as part of SCE's third-party solicitation effort. The programs listed below will stop accepting new enrollments for 2019 but will continue to be funded to complete committed projects in the pipeline as of the end of 2018.

- Healthcare EE
- Data Center EE
- Lodging EE
- Food & Kindred
- Primary and Fabricated Metals
- Non-Metallic Minerals & Products
- Residential HVAC
- Comprehensive Chemical Products
- Comprehensive Petroleum
- Oil Production
- Enhanced Retro-Commissioning
- Medium Size Industrial Customer

Continued Non Cost-Effective Programs

SCE is proposing to continue multiple programs in 2019 that are not cost-effective in order to comply with various regulatory mandates, achieve 2019 goals, and support customer programs through the transition period. SCE will continue to evaluate its

[18] Advice Letter 3831-E, Request for Approval to Change Incentives for Measures Offered in SCE's Statewide Commercial Quality Maintenance Energy Efficiency Program. Approved August 24, 2018.

portfolio of programs in response to competitive solicitations, cost-effectiveness, ability to achieve goals and metrics, as well as other factors, and SCE may propose eliminating these programs in the future.

Per D.18-05-041, PAs cannot opt out of statewide programs and are required to fund all statewide programs.[19] As such, SCE will continue three statewide programs, listed below, even though the programs are not cost-effective. SCE does not know if the cost effectiveness will improve over time, however, SCE is committed to working with statewide programs leads to maximize the cost-effectiveness of these programs. In addition, the three programs will be part of the upcoming third-party solicitation which may improve the cost-effectiveness of third-party programs.

- Plug Load and Appliance Program
- Nonresidential HVAC Program
- Savings by Design

SCE will continue to offer Savings by Design (SBD) even though it may no longer be cost effective.[20] The IOUs received a disposition for SBD that requires modification of the calculation method in the *EnergyPro* building energy simulation tool. SCE's preliminary analysis indicates that full implementation of the proposed modifications will reduce claimable savings by approximately 50 percent and will require significant program design modifications. Requiring the IOUs to continue non cost-effective programs reduces the cost-effectiveness of their portfolios. However, SCE will work collaboratively with the Commission and its statewide counterparts to develop plans to serve SBD customers while minimizing the negative impact to portfolio cost effectiveness.

As discussed above, many of SCE's third-party programs currently are not cost effective; however, SCE has allocated funding in 2019 to support commitments from previous years as SCE is required to continue these programs. SCE's upcoming third-party solicitations may improve the cost-effectiveness of third-party programs. Below is a list of programs SCE will continue funding to complete committed projects.

- Healthcare EE
- Data Center EE
- Lodging EE
- Food & Kindred
- Primary and Fabricated Metals
- Non-Metallic Minerals & Products
- Residential HVAC
- Comprehensive Chemical Products
- Comprehensive Petroleum

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[19] *See* D.18-05-041, OP 22

[20] IOU PAs are required to fund all statewide programs per D.18-05-041, p. 83.

- Oil Production
- Enhanced Retro-Commissioning
- Medium Size Industrial Customer

SCE is also continuing two low-TRC programs that provide direct installation services to small business and school markets. Commercial Direct Install and School Energy Efficiency will assist customers in these markets with energy savings and enable SCE to meet its 2019 energy savings and demand reduction metrics. Due to the implementation strategy of these direct installation programs, these programs do not result in long-term customer and utility commitments and can rapidly ramp down should SCE's third-party solicitations result in new program concepts that deliver savings in these markets.

None of SCE's Local Government Partnerships are cost-effective; however, SCE is proposing to continue all Local Government Partnerships. Pursuant to D.18-05-041, SCE must work with participating local governments to improve cost-effectiveness and to meet the local governments' needs.[21]

SCE is proposing to continue to offer its nonresidential customized and deemed programs even though the programs are not cost effective. These programs will continue to be offered to allow for participation in energy efficiency in the nonresidential customer segment while new programs are being solicited and ramped up. In addition, these programs provide a means to offer energy efficiency solutions to business customers not served by the third-party markets. Similar to previous years, SCE has offered nonresidential third-party programs along with SCE's nonresidential customized and deemed programs.

SCE's nonresidential customized and deemed programs have experienced declines in cost-effective savings for several reasons. First, CPUC dispositions as well as codes and standards have resulted in reductions of available measures. Second, SCE has shifted some of the remaining available measures to more cost-effective delivery channels, resulting in lower uptake for these programs. Finally, increased participation requirements and uncertainty in rules have caused a reduction in customer participation.

SCE requests the Commission to prioritize the need to stabilize the rules of participation and savings calculations in energy efficiency programs due to the negative impact on customers and California energy efficiency cost-effectiveness. While many of these rules and calculations were discussed in the Track 2 Working Group, little progress has been made to implement substantive changes.[22] The cost effectiveness of these programs will continue to be influenced by uncertainty in program rules and measure eligibility, such as the application of Industry Standard Practice baselines and changes in baseline determinations that can occur at any time. These challenges, coupled with

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[21] See D.18-05-041, Ordering Paragraph 30.
[22] Track 2 Working Group Final Report on Tasks 1-4, September 7, 2017.

unknown project review timing and changing data requirements, limit the effectiveness of these programs. SCE anticipates that better alignment between measure availability and increased guidance from the Commission on changes to allowable savings will increase program cost effectiveness. Program cost-effectiveness can increase if there is early Commission guidance regarding changes to allowable savings. Such guidance would allow SCE to better align its programs to measure availability, thereby, increasing cost-effectiveness. In addition, providing more certainty in program rules and measure eligibility will provide certainty for customers, third-party implementers, and program administrators; increase customer satisfaction; and foster greater program participation. SCE looks forward to working with the Commission and stakeholders to address these issues in the Custom Projects and Industrial Programs track of Phase III of R.13-10-005 as SCE continues to modernize energy efficiency.

DISCUSSION OF SCE's 2019 FORECASTED TRC RESULT

WHY SCE IS FORECASTING A TRC BELOW 1.25

SCE strives to update its EE portfolio to improve customer participation and optimize portfolio cost-effectiveness while addressing long-term planning and near-term impacts. While SCE forecast a TRC of at least 1.25, several factors make this challenging:

- For SCE's 2019 EE portfolio forecast, the avoided cost calculations effective in 2019 result in reduced energy efficiency benefits of nearly 25% compared to the avoided cost calculations effective in 2017. SCE estimates that the portfolio proposed in this Advice Letter would have achieved a TRC of 1.53 had it used the avoided costs effective in 2017. Avoided cost updates include decreasing natural gas prices, market peak shifting from daytime to evening, and a nearly carbon-free grid mid-day reducing the amount of GHG abated for mid-day kWh savings.

- SCE's 2019 EE Portfolio forecast includes $17.05 million in incentive payments for streetlight measures that will result in no claimable energy savings. This is due to the direction provided by Commission staff on October 10, 2017 and October 31, 2017. Specifically, the Commission directed SCE to pay customers the 2015 rebate levels for Acquisition Customers and pay the rebate levels in effect at the time of the initial agreement for AB719 Customers. Meanwhile, SCE may only claim savings based on the workpaper in effect at the time of completed equipment installation, and in 2019, it is anticipated that there will be no workpaper available to support savings claims for streetlight measures for Acquisition and Option E customers. SCE is working in collaboration with Commission staff to develop a solution to this mismatch by either allowing SCE to claim the savings for the streetlight measures or remove the costs of providing these rebates from the cost-effectiveness calculations.

- Loss of cost-effective measures due to successful market transformation (code mandated), of transitioning cost-effective savings from incentive programs to building and appliance codes (i.e., CEC Title 24 and Title 20, respectively).

- Goals are created in two-year cycles based upon estimates of the cost-effective potential of measures. However, when significant measure dispositions or avoided cost updates occur within the cycle, these goals are not retrospectively updated. For example, in 2018 the Commission issued two significant lighting measure dispositions[23] that reduced the savings amount associated with the measures available in SCE's lighting programs. In addition, the avoided costs calculations used for 2019 generally reduced the cost-effective measure potential compared to the prior avoided costs calculations used in the 2018 EE Potential & Goal Study. This results in portfolio administrators having to make tradeoffs between the competing goals of cost effectiveness and meeting savings goals that may be outdated or more difficult to achieve based on later developments.

ABILITY TO ACHIEVE AN EVALUATED TRC OF 1.0

Although SCE is not proposing a portfolio that meets a cost benefit ratio of 1.25, SCE is confident it will meet an evaluated TRC of 1.0 for 2019 because SCE will continue to optimize its portfolio throughout the year to lower costs by improving, reducing, or eliminating non-resource programs and non-cost-effective programs and measures. SCE will follow the appropriate regulatory channels to accomplish this outcome.

In addition to increasing cost-effectiveness going forward, SCE will maximize savings from cost-effective measures and programs, encourage statewide programs not led by SCE to also maximize cost-effectiveness, and require new programs to meet a high cost-effectiveness threshold and maximize pay-for-performance.

Furthermore, SCE has included a budget of approximately $6.8 million for the ramp-up of new third-party programs in 2019 but did not allocate any attributable energy savings to these programs; therefore, the cost burden has been estimated, but only positive savings and cost-effectiveness results are expected to occur. These third-party programs are expected to contribute positively to overall cost-effectiveness of the portfolio once operational and may contribute to the energy savings delivered in 2019.

SCE will continue to improve the cost-effectiveness of both cost-effective and non-cost-effective programs. As required by the Commission in D.18-05-041, SCE will work with Local Government Partnership participants to improve the cost-effectiveness of these programs in 2019. SCE will also be developing programs specifically marketed to Disadvantaged Communities (DAC) and Hard-to-Reach (HTR) customers and refocus existing programs to target DAC and HTR customers where possible. Programs that

[23] 2018 Screw-In Lamp Savings Methods Disposition; 2018 Outdoor Lighting Phase 1 Disposition

meet the DAC and HTR criteria are currently eligible to claim at least a 0.85 net-to-gross ratio. SCE will work collaboratively with the Commission to identify the correct documentation requirements and to properly indicate projects installed for DAC and HTR customers.[24]

SCE anticipates improved ex post results from its nonresidential energy efficiency programs, including third-party and customized projects as well as deemed rebates. This expected improvement is due to the significant efforts by SCE and its implementers in response to the Commission's previous ex post and ex ante recommendations. Since 2015 and ongoing today, SCE has implemented numerous initiatives and EE program policies to address Commission concerns with programs. These efforts include, but are not limited to: requiring increased documentation of EE program influence on customer actions; establishing SCE internal processes to communicate ongoing Commission staff guidance; increased SCE review of large projects; standardization of technical and influence documentation into a Project Feasibility Study (PFS) template; and, detailed guidance of EE program influence via a matrix developed to provide details in alignment with known Preponderance of Evidence guidance from CPUC staff. In 2018, SCE enacted an Early Screening process to provide immediate feedback to customers and project implementers on projects and their likelihood of receiving EE incentives which may improve ex-post results.

SCE's portfolio excludes the cost-effectiveness of its codes and standards advocacy programs which provides a significant buffer to maintain cost-effectiveness above 1.0. Such programs can provide significant, cost-effective energy savings to California which are not captured in the cost-effectiveness metrics.

In addition, SCE is evaluating several measures for reinstatement in 2019. In January 2018, SCE suspended several lighting measures due to guidance received from Commission dispositions, market studies, and industry standard practice (ISP) studies.[25] As SCE receives clarifying direction, SCE will determine if and when the measures will be reinstated and available for new project applications. The

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[24] On August 28, 2018, the Commission issued Draft Resolution E-4952, which addresses DAC and HTR net-to-gross values. SCE is in the process of reviewing the recent guidance and look forward to working with Energy Division as necessary.

[25] Key elements of the following dispositions and guidance memos are the drivers for SCE suspending high risk measures:

- 2017_Workpaper_Guidance_Memo_OUT
- 2017ExteriorLEDFixturesDisposition-Revised2June2017-FINAL
- PGECOLTG178r3_DetailedReview_29Sep2017-final1
- SCE_FinalVersion_2016ESPI_2017-08-21
- 2017ExteriorLEDFixturesDisposition-BaselineClarifications-12Apr2017-Draft
- SCE-16-C-C-0073_0500804246_Ext. LED Lighting
- 2018 Screw-In LED Methods Disposition
- Commission Staff email clarification of the 2018 Screw-in LED Methods Disposition, January 31, 2018

reinstatement of these measures should have a positive impact on the portfolio TRC and savings values.

PROGRESS TOWARDS ACHIEVING A FORECASTED TRC OF 1.25

As noted above, SCE will continue to optimize its portfolio in response to competitive solicitations, cost-effectiveness challenges, changes in the marketplace, and other factors to maximize the TRC of its portfolio and strive to achieve a forecasted TRC of 1.25 no later than 2023 while also striving to achieve energy savings goals and other portfolio targets.

Program Administrator's 2019-2025 Budget True-Up

Per D.18-05-041, SCE is providing an update to its budget to support the goals established in D.17-09-025 and D.17-08-022 in Table 6 below.[26] See Attachment A for SCE's Annual Rolling Portfolio Budget and Savings Forecast in the Commission issued ABAL template.

For subsequent annual budget advice letters, SCE will continue to revise annual funding levels to reflect more accurate assumptions as business plan implementation progresses. As directed by the Commission, SCE's overall funding amount will not exceed the overall funding amount in its 2018-2025 business plan.[27]

Table 6: Annual Rolling Portfolio Budget and Savings Forecast – True-Up

	Budget[28]	**Energy Savings (kWh)**[29]	**Demand Reduction (kW)**[30]
2018	$233,027,000	487,525,392	79,325
2019	$230,575,139	524,864,249	93,003
2020	$275,649,883	601,576,898	156,666
2021	$270,600,813	581,128,328	153,353
2022	$278,583,316	595,155,753	157,553

[26] D.18-05-041, p. 132
[27] D.18-05-041, p. 130
[28] Budget amounts equal IOU only subtotal + IOU EM&V + Lancaster CCA, per Resolution E-4917 from the attached ABAL template
[29] Energy Savings (kWh) equals IOU only subtotal + ESA savings. See Attachment A for additional details.
[30] Demand Reduction (kW) equals IOU only subtotal + ESA savings. See Attachment A for additional details.

2023	$286,805,293	609,014,812	161,886
2024	$295,273,930	625,362,865	166,440
2025	$303,996,626	643,879,191	171,367

IOU IDSM Budget Allocation

Per guidance provided to the IOU PAs, below is SCE's IDSM Budget Allocation.

Table 6: SCE's IDSM Budget Allocation ($000)

Funding Source	Sector	2018	2019	2020	2021	2022	2023	2024	2025
DR	Non-Residential	$7,780	$8,360	$8,871	$8,678	$8,961	$9,253	$9,554	$9,864
DR	Residential	$1,000	$1,000	$1,000	$1,000	$1,000	$1,000	$1,000	$1,000
EE	Non-Residential (Energy Advisor Program)	$ 220	NA	NA	NA	NA	NA	NA	NA
EE	Residential	$	NA	NA	NA	NA	NA	NA	NA
Total*		**$9,000**	**$9,360**	**$9,871**	**$9,678**	**$9,961**	**$10,253**	**$10,554**	**$10,864**

PROPOSED TARIFF CHANGES

This advice filing will not cause the withdrawal of service nor conflict with any other schedule or rule.

TIER DESIGNATION

Pursuant to General Order (GO) 96-B, Energy Industry Rule 5.2, this advice letter is submitted with a Tier 2 designation.

EFFECTIVE DATE

This advice filing will become effective on October 4, 2018, the 30th calendar day after the date submitted.

NOTICE

Anyone wishing to protest this advice filing may do so by letter via U.S. Mail, facsimile, or electronically, any of which must be received no later than 20 days after the date of this advice filing. Protests should be submitted to:

CPUC, Energy Division
Attention: Tariff Unit
505 Van Ness Avenue
San Francisco, California 94102
E-mail: EDTariffUnit@cpuc.ca.gov

Copies should also be mailed to the attention of the Director, Energy Division, Room 4004 (same address above).

In addition, protests and all other correspondence regarding this advice letter should also be sent by letter and transmitted via facsimile or electronically to the attention of:

Gary A. Stern, Ph.D.
Managing Director, State Regulatory Operations
Southern California Edison Company
8631 Rush Street
Rosemead, California 91770
Telephone (626) 302-9645
Facsimile: (626) 302-6396
E-mail: AdviceTariffManager@sce.com

Laura Genao
Managing Director, State Regulatory Affairs
c/o Karyn Gansecki
Southern California Edison Company
601 Van Ness Avenue, Suite 2030
San Francisco, California 94102
Facsimile: (415) 929-5544
E-mail: Karyn.Gansecki@sce.com

There are no restrictions on who may file a protest, but the protest shall set forth specifically the grounds upon which it is based and must be received by the deadline shown above.

In accordance with General Rule 4 of GO 96-B, SCE is serving copies of this advice filing to the interested parties shown on the attached GO 96-B, A.17-01-013 et al and R.13-11-005 service lists. Address change requests to the GO 96-B service list should be directed by electronic mail to AdviceTariffManager@sce.com or at (626) 302-4039. For changes to all other service lists, please contact the Commission's Process Office at (415) 703-2021 or by electronic mail at Process_Office@cpuc.ca.gov.

Further, in accordance with Public Utilities Code Section 491, notice to the public is hereby given by filing and keeping the advice filing at SCE's corporate headquarters. To view other SCE advice letters filed with the Commission, log on to SCE's web site at https://www.sce.com/wps/portal/home/regulatory/advice-letters.

For questions, please contact Lisa Mau at (626) 302-3684 or by electronic mail at lisa.mau@sce.com

Southern California Edison Company

/s/ Gary A. Stern, Ph.D.
Gary A. Stern, Ph.D.

RGW:lm:jm
Enclosures

California Public Utilities Commission

ADVICE LETTER SUMMARY

ENERGY UTILITY

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

Company name/CPUC Utility No.: Southern California Edison Company (U 338-E)

Utility type:
☑ ELC ☐ GAS ☐ WATER
☐ PLC ☐ HEAT

Contact Person: Darrah Morgan
Phone #: (626) 302-2086
E-mail: Darrah.Morgan@sce.com
E-mail Disposition Notice to: AdviceTariffManager@sce.com

EXPLANATION OF UTILITY TYPE
ELC = Electric GAS = Gas WATER = Water
PLC = Pipeline HEAT = Heat

(Date Submitted / Received Stamp by CPUC)

Advice Letter (AL) #: 3859-E

Tier Designation: 2

Subject of AL: Southern California Edison Company's 2019 Energy Efficiency Program and Portfolio Annual Budget

Keywords (choose from CPUC listing): Compliance, Energy Efficiency, Portfolio

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

If AL submitted in compliance with a Commission order, indicate relevant Decision/Resolution #:
Decision 18-05-041

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: 10/4/18

No. of tariff sheets: -0-

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: None

Service affected and changes proposed[1]:

Pending advice letters that revise the same tariff sheets: None

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

Clear Form

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: Gary A. Stern, Ph.D.
Title: Managing Director, State Regulatory Operations
Utility Name: Southern California Edison Company
Address: 8631 Rush Street
City: Rosemead
State: California Zip: 91770
Telephone (xxx) xxx-xxxx: (626) 302-9645
Facsimile (xxx) xxx-xxxx: (626) 302-6396
Email: advicetariffmanager@sce.com

Name: Laura Genao c/o Karyn Gansecki
Title: Managing Director, State Regulatory Affairs
Utility Name: Southern California Edison Company
Address: 601 Van Ness Avenue, Suite 2030
City: San Francisco
State: California Zip: 94102
Telephone (xxx) xxx-xxxx: (415) 949-5515
Facsimile (xxx) xxx-xxxx: (415) 929-5544
Email: karyn.gansecki@sce.com

Clear Form

ENERGY Advice Letter Keywords

Affiliate	Direct Access	Preliminary Statement
Agreements	Disconnect Service	Procurement
Agriculture	ECAC / Energy Cost Adjustment	Qualifying Facility
Avoided Cost	EOR / Enhanced Oil Recovery	Rebates
Balancing Account	Energy Charge	Refunds
Baseline	Energy Efficiency	Reliability
Bilingual	Establish Service	Re-MAT/Bio-MAT
Billings	Expand Service Area	Revenue Allocation
Bioenergy	Forms	Rule 21
Brokerage Fees	Franchise Fee / User Tax	Rules
CARE	G.O. 131-D	Section 851
CPUC Reimbursement Fee	GRC / General Rate Case	Self Generation
Capacity	Hazardous Waste	Service Area Map
Cogeneration	Increase Rates	Service Outage
Compliance	Interruptible Service	Solar
Conditions of Service	Interutility Transportation	Standby Service
Connection	LIEE / Low-Income Energy Efficiency	Storage
Conservation	LIRA / Low-Income Ratepayer Assistance	Street Lights
Consolidate Tariffs	Late Payment Charge	Surcharges
Contracts	Line Extensions	Tariffs
Core	Memorandum Account	Taxes
Credit	Metered Energy Efficiency	Text Changes
Curtailable Service	Metering	Transformer
Customer Charge	Mobile Home Parks	Transition Cost
Customer Owned Generation	Name Change	Transmission Lines
Decrease Rates	Non-Core	Transportation Electrification
Demand Charge	Non-firm Service Contracts	Transportation Rates
Demand Side Fund	Nuclear	Undergrounding
Demand Side Management	Oil Pipelines	Voltage Discount
Demand Side Response	PBR / Performance Based Ratemaking	Wind Power
Deposits	Portfolio	Withdrawal of Service
Depreciation	Power Lines	

Clear Form

Attachment A
Commission Developed ABAL Tables

Sector	Program Year (PY) Budget	PA PY FORECAST ENERGY SAVINGS (Net) PA forecast kWh	PA forecast kW	PA forecast therms (MM)
Residential	$ 96,819,285	396,765,517	72,991	-
Commercial	$ 48,787,134	50,825,314	10,778	-
Industrial	$ 20,352,822	32,424,346	3,417	-
Agriculture	$ 2,943,042	804,930	92	-
Emerging Tech	$ 10,579,964	na	na	na
Public	$ 24,215,749	10,087,142	1,315	-
WE&T	$ 5,571,814	na	na	na
Finance	$ 1,968,842	-	-	
OBF Loan Pool	$ -	na	na	na
IOU Subtotal	$ 211,238,652	490,907,249	88,593	-
ESA Savings		33,957,000	4,410	
IOU Total Program Savings (w/out C&S)		524,864,249	93,003	-
	CPUC Program Savings Goal	442,000,000	91,000	-
	Forecast savings as % of CPUC Program Savings Goal	119%	102%	0%
Codes and Standards	$ 8,939,320	680,472,783	155,536	
IOU EM&V	$ 9,995,849			
IOU PY Spending Budget Request[1]	$ 230,173,822			
(LESS) IOU Uncommitted and Unspent Carryover Balance[2]	$ 1,672,495			
IOU PY Budget Recovery Request[3]	$ 228,501,327			
IOU Authorized PY Budget Cap (D.18-05-041)	$ 253,364,000			
Lancaster CCA PY Budget Recovery Request (excl. CCA Uncommitted/Unspent Carryover)[4]	$ 401,318			
3CREN PY Budget Recovery Request (excl. REN Uncommitted/Unspent Carryover)[4]	$ 2,051,754			
SoCalREN PY Budget Recovery Request (excl. REN Uncommitted/Unspent Carryover)[4]	$ 17,269,325			
Total PA (IOU+CCAs+RENs) PY Recovery Budget[5]	$ 248,223,723			
IOU Forecast PY TRC[6]	1.18			
IOU Forecast PY PAC[6]	1.46			

For reference only

SoCalREN EM&V Budget	$ 287,822
3CREN EM&V Budget	$ 34,196
LCE EM&V Budget	$ 6,689
SCE EM&V Budget	$ 9,667,142

[1] This is amount by which Statewide 25% requirement will be measured, and what the IOU intends to spend in the PY, including carryovers. Includes EM&V funds allocated to SoCalREN, 3CREN, and LCE.

[2] The balance of unspent uncommitted must reflect the total unspent uncommitted starting Jan 1 2018 through Dec 31 of current year (PY-1). Because each ABAL is filed in Q3, this unspent uncommitted amount will be an estimate for the year in which the ABAL is filed.

[3] The amount of funds to be collected (budget recovery) for the Program Year - Line 21 less line 22

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

[5] Line 28 is a mix of budget spending and budget recovery for all PAs in the IOU service area

[6] Cost effectiveness excludes Codes and Standards

Annual Rolling Portfolio Budget Forecast - True-up

Sector	2018[1]	2019	2020	2021	2022	2023	2024	2025	Total
Residential	$ 86,729,073	$ 96,819,285	$ 99,167,981	$ 97,200,134	$ 100,069,314	$ 103,024,578	$ 106,068,906	$ 109,204,557	$ 798,283,830
Commercial	$ 66,759,793	$ 48,787,134	$ 90,536,375	$ 89,138,580	$ 91,769,796	$ 94,479,958	$ 97,271,796	$ 100,147,384	$ 678,890,816
Industrial	$ 23,443,501	$ 20,352,822	$ 29,433,552	$ 28,849,495	$ 29,701,082	$ 30,578,220	$ 31,481,792	$ 32,412,469	$ 226,252,932
Agriculture	$ 4,112,448	$ 2,943,042	$ 3,289,198	$ 3,223,930	$ 3,319,095	$ 3,417,115	$ 3,518,089	$ 3,622,092	$ 27,445,008
Emerging Tech	$ 5,638,909	$ 10,579,964	$ 7,961,948	$ 7,803,958	$ 8,034,317	$ 8,271,588	$ 8,516,009	$ 8,767,763	$ 65,574,456
Public	$ 22,973,406	$ 24,215,749	$ 20,186,685	$ 20,149,735	$ 20,744,521	$ 21,357,151	$ 21,988,245	$ 22,638,270	$ 174,253,763
Codes and Standards	$ 5,662,538	$ 8,939,320	$ 6,028,843	$ 5,909,211	$ 6,083,641	$ 6,263,304	$ 6,448,381	$ 6,639,011	$ 51,974,249
WE&T	$ 6,020,788	$ 5,571,814	$ 5,159,707	$ 5,057,322	$ 5,206,606	$ 5,360,368	$ 5,518,764	$ 5,681,912	$ 43,577,282
Finance	$ 1,302,632	$ 1,968,842	$ 1,666,795	$ 1,633,720	$ 1,681,945	$ 1,731,616	$ 1,782,785	$ 1,835,488	$ 13,603,825
OBF Loan Pool	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Subtotal[2]	$ 222,643,089	$ 220,177,973	$ 263,431,085	$ 258,966,085	$ 266,610,316	$ 274,483,898	$ 282,594,768	$ 290,948,947	$ 2,079,856,160
IOU EM&V[6]	$ 10,011,570	$ 9,995,849	$ 11,817,461	$ 11,634,728	$ 11,973,000	$ 12,321,395	$ 12,679,162	$ 13,047,679	$ 93,480,844
LCE Programs	$ 372,341	$ 401,318	$ 401,338	$ -	$ -	$ -	$ -	$ -	$ 1,174,996
SoCalREN Program	$ 15,536,447	$ 17,269,325	$ 17,632,329	$ 18,005,324	$ 18,389,142	$ 18,782,951	$ 19,185,086	$ 19,599,710	$ 144,400,313
3CREN Program	$ -	$ 2,051,754	$ 2,154,341	$ 2,262,059	$ 2,352,541	$ 2,446,641	$ 2,520,041	$ 2,595,643	$ 16,383,021
Total Portfolio Program Year PA Budget [3]	$ 248,563,447	$ 249,896,218	$ 295,436,553	$ 290,868,196	$ 299,324,998	$ 308,034,885	$ 316,979,058	$ 326,191,979	$ 2,335,295,333
Total Authorized Portfolio PY Budget Cap [3]	$ 248,673,631	$ 272,684,179	$ 291,638,971	$ 287,071,205	$ 295,526,649	$ 304,235,713	$ 313,181,388	$ 322,393,219	$ 2,335,404,955
IOU Portfolio PY Budget Request[4]	$ 233,027,000	$ 230,575,139	$ 275,649,883	$ 270,600,813	$ 278,583,316	$ 286,805,293	$ 295,273,930	$ 303,996,626	$ 2,174,512,000
IOU Authorized PY Budget Cap[4]	$ 233,027,000	$ 253,364,000	$ 271,852,000	$ 266,803,000	$ 274,785,000	$ 283,007,000	$ 291,476,000	$ 300,198,000	$ 2,174,512,000
Forecast Portfolio PY TRC (through 2022)[5]	1.00	1.18	1.20	1.22	1.24	1.25+	1.25+	1.25+	
Forecast Portfolio PY PAC (through 2022)[5]	1.23	1.46	1.48	1.51	1.53	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] Subtotal equals the denominator by which portfolio 3P bid % will be measured

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

[4] IOU only Subtotal (Line 14) + IOU EM&V (Line 15) + Lancaster CCA (Line 16), Per Resolution E-4917

[5] Cost effectiveness calculation excludes Codes and Standards

[6] Includes EM&V funds allocated for CCA and RENs.

Annual Rolling Portfolio Savings Forecast - True-up (kWh)

Sector	2018	2019	2020 [1]	2021 [1]	2022 [1]	2023 [1]	2024 [1]	2025 [1]
Residential	251,209,773	396,765,517	246,306,274	241,440,660	248,577,759	255,928,970	263,500,717	271,299,617
Commercial	81,841,827	50,825,314	202,284,395	198,288,404	204,149,902	210,187,244	216,405,707	222,810,723
Industrial	50,689,409	32,424,346	96,886,842	94,972,908	97,780,352	100,672,018	103,650,435	106,718,204
Agriculture	14,326,336	804,930	1,319,149	1,293,090	1,331,315	1,370,686	1,411,238	1,453,007
Emerging Tech	-	-	-	-	-	-	-	-
Public	48,847,643	10,087,142	20,823,238	20,411,889	21,015,274	21,636,760	22,276,891	22,936,226
WE&T	-	-	-	-	-	-	-	-
Finance	-	-	-	-	-	-	-	-
OBF Loan Pool	-	-	-	-	-	-	-	-
IOU - Subtotal	446,914,989	490,907,249	567,619,898	556,406,952	572,854,601	589,795,678	607,244,988	625,217,777
ESA Savings	40,610,404	33,957,000	33,957,000	24,721,375	22,301,153	19,219,133	18,117,877	18,661,413
LCE Programs	-	437,487	458,405	-	-	-	-	-
SoCalREN Program	2,881,748	4,367,008	4,420,937	4,509,304	4,599,620	4,691,885	4,785,450	4,880,964
3CREN Program	-	173,927	232,916	325,184	472,780	653,591	691,405	74,302,065
Total Forecast Portfolio Savings	490,407,140	529,842,671	606,689,156	585,962,816	600,228,154	614,360,288	630,839,720	723,062,220
CPUC Goal	409,000,000	442,000,000	451,000,000	477,000,000	494,000,000	517,000,000	562,000,000	583,000,000
% of Goal	120%	120%	135%	123%	122%	119%	112%	124%
Codes and Standards	885,157,836	680,472,783	577,000,000	594,000,000	578,000,000	640,000,000	613,000,000	591,000,000

[1] Savings data calculated using gross savings submitted in SCE's 2018-2025 Business Plan. Will be subject to change due to 3P solicitations and optimization of portfolio.

Annual Rolling Portfolio Savings Forecast - True-up (kW)

Sector	2018	2019	2020 [1]	2021 [1]	2022 [1]	2023 [1]	2024 [1]	2025 [1]
Residential	49,113	72,991	108,050	105,915	109,046	112,271	115,593	119,014
Commercial	14,830	10,778	34,895	34,206	35,217	36,259	37,331	38,436
Industrial	442	3,417	6,366	6,241	6,425	6,615	6,811	7,012
Agriculture	4,015	92	300	294	302	311	321	330
Emerging Tech	-	-	-	-	-	-	-	-
Public	5,160	1,315	2,644	2,592	2,669	2,748	2,829	2,913
WE&T	-	-	-	-	-	-	-	-
Finance	-	-	-	-	-	-	-	-
OBF Loan Pool	-	-	-	-	-	-	-	-
IOU - Subtotal	73,560	88,593	152,256	149,248	153,660	158,204	162,884	167,705
ESA Savings	5,764	4,410	4,410	4,105	3,894	3,682	3,555	3,662
Lancaster CCA	-	115	122	-	-	-	-	-
SoCalREN Program	685	586	593	605	617	630	642	655
3CREN Program	-	121	163	235	336	461	499	538
Total Forecast Portfolio Savings (w/out C&S)	80,010	93,825	157,544	154,193	158,506	162,977	167,581	172,560
CPUC Goal	82,000	91,000	92,000	100,000	104,000	110,000	118,000	124,000
% of Goal	98%	103%	171%	154%	152%	148%	142%	139%
Codes and Standards	170,700	155,536	142,000	168,000	163,000	200,000	192,000	186,000

[1] Savings data calculated using gross savings submitted in SCE's 2018-2025 Business Plan. Will be subject to change due to 3P solicitations and optimization of portfolio.

Attachment B
CEDARS Filing Confirmation

CEDARS FILING SUBMISSION RECEIPT

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

PA: Southern California Edison (SCE)

Filing Year: 2019

Submitted: 06:43:48 on 31 Aug 2018

By: Gary Golden

Advice Letter Number: 3859-E

* Portfolio Filing Summary *

- TRC: 1.3204
- PAC: 3.7379
- TRC (no admin): 1.6232
- PAC (no admin): 7.921
- RIM: 3.7379
- Budget: $229,845,115.02

* Programs Included in the Filing *

- SCE-13-ESA: Energy Savings Assistance Program
- SCE-13-ESPI: Energy Savings Performance Incentive
- SCE-13-L-002B: City of Long Beach Energy Leader Partnership
- SCE-13-L-002F: Gateway Cities Energy Leader Partnership
- SCE-13-L-002H: Eastern Sierra Energy Leader Partnership
- SCE-13-L-002I: Energy Leader Partnership Strategic Support
- SCE-13-L-002J: Desert Cities Energy Leader Partnership
- SCE-13-L-002K: Kern County Energy Leader Partnership
- SCE-13-L-002L: Orange County Cities Energy Leader Partnership
- SCE-13-L-002M: San Gabriel Valley Energy Leader Partnership
- SCE-13-L-002N: San Joaquin Valley Energy Leader Partnership
- SCE-13-L-002O: South Bay Energy Leader Partnership
- SCE-13-L-002P: South Santa Barbara County Energy Leader Partnership
- SCE-13-L-002Q: Ventura County Energy Leader Partnership
- SCE-13-L-002R: Western Riverside Energy Leader Partnership
- SCE-13-L-002S: High Desert Regional Energy Leader Partnership
- SCE-13-L-002T: West Side Community Energy Leader Partnership

- SCE-13-L-002U: Local Government Strategic Planning Pilot Program
- SCE-13-L-002V: North Orange County Cities
- SCE-13-L-002W: San Bernardino Association of Governments
- SCE-13-L-003A: California Community Colleges Energy Efficiency Partnership
- SCE-13-L-003B: California Dept. of Corrections and Rehabilitation EE Partnership
- SCE-13-L-003C: County of Los Angeles Energy Efficiency Partnership
- SCE-13-L-003D: County of Riverside Energy Efficiency Partnership
- SCE-13-L-003E: County of San Bernardino Energy Efficiency Partnership
- SCE-13-L-003F: State of California Energy Efficiency Partnership
- SCE-13-L-003G: UC/CSU Energy Efficiency Partnership
- SCE-13-L-003I: Public Sector Performance-Based Retrofit High Opportunity Program
- SCE-13-PB: Pension and Benefits
- SCE-13-SW-001A: Energy Advisor Program
- SCE-13-SW-001B: Plug Load and Appliances Program
- SCE-13-SW-001C: Multifamily Energy Efficiency Rebate Program
- SCE-13-SW-001F: Residential New Construction Program
- SCE-13-SW-001G: Residential Direct Install Program
- SCE-13-SW-002A: Commercial Energy Advisor Program
- SCE-13-SW-002B: Commercial Calculated Program
- SCE-13-SW-002C: Commercial Deemed Incentives Program
- SCE-13-SW-002D: Commercial Direct Install Program
- SCE-13-SW-002F: Nonresidential HVAC Program
- SCE-13-SW-002G: Savings By Design
- SCE-13-SW-002H: Midstream Point of Purchase Program
- SCE-13-SW-003A: Industrial Energy Advisor Program
- SCE-13-SW-003B: Industrial Calculated Energy Efficiency Program
- SCE-13-SW-003C: Industrial Deemed Energy Efficiency Program
- SCE-13-SW-003D: Strategic Energy Management Program
- SCE-13-SW-004A: Agriculture Energy Advisor Program
- SCE-13-SW-004B: Agriculture Calculated Energy Efficiency Program
- SCE-13-SW-004C: Agriculture Deemed Energy Efficiency Program
- SCE-13-SW-005C: Primary Lighting Program
- SCE-13-SW-007A: On-Bill Financing
- SCE-13-SW-007C: New Finance Offerings
- SCE-13-SW-008A: Building Codes and Compliance Advocacy
- SCE-13-SW-008B: Appliance Standards Advocacy
- SCE-13-SW-008C: Compliance Improvement
- SCE-13-SW-008D: Reach Codes
- SCE-13-SW-008E: Planning and Coordination
- SCE-13-SW-008F: National and International Standards
- SCE-13-SW-009A: Technology Development Support
- SCE-13-SW-009B: Technology Assessments

- SCE-13-SW-009C: Technology Introduction Support
- SCE-13-SW-010A: WE&T; Centergies
- SCE-13-SW-010B: WE&T; Connections
- SCE-13-SWMEO: Statewide Marketing, Education & Outreach
- SCE-13-TP-001: Comprehensive Manufactured Homes
- SCE-13-TP-003: Healthcare EE Program
- SCE-13-TP-004: Data Center Energy Efficiency
- SCE-13-TP-005: Lodging EE Program
- SCE-13-TP-006: Food & Kindred Products
- SCE-13-TP-007: Primary and Fabricated Metals
- SCE-13-TP-008: Nonmetallic Minerals and Products
- SCE-13-TP-009: Comprehensive Chemical Products
- SCE-13-TP-010: Comprehensive Petroleum Refining
- SCE-13-TP-011: Oil Production
- SCE-13-TP-018: School Energy Efficiency Program
- SCE-13-TP-021: Enhanced Retrocommissioning
- SCE-13-TP-022: Water Infrastructure Systems Energy Efficiency Program
- SCE-13-TP-023: Midsize Industrial Customer Program
- SCE-13-TP-024: AB793 Residential Pay for Performance
- SCE-13-TP-025: Facility Assessment Program
- SCE-13-TP-026: Residential 3P Solicitation
- SCE-13-TP-027: Commercial 3P Solicitation
- SCE-13-TP-028: Industrial 3P Solicitation
- SCE-13-TP-029: Local Government 3P Solicitation
- SCE-3OV0100: SCE EM&V;
- SCE-3OV0200: CPUC EM&V;

Attachment C

Historical Annual Budget Advice Letter Tables

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	$0.16	N/A	$ 87,209,070	$ 981,191,659
2014	$0.17	N/A	$ 103,251,635	$ 1,090,731,032
2015	$0.16	N/A	$ 93,081,321	$ 885,855,957
2016	$0.15	N/A	$ 65,492,695	$ 704,523,862
2017	$0.15	N/A	$ 83,570,931	$ 726,322,498
2018	$0.16	N/A	$ 88,065,105	$ 840,561,019
2019	$0.16	N/A	$ 78,054,253	$ 750,127,247

Consistent with SPM TRC/PAC/RIM tests, all savings used from actuals and forecasts in this table are NET.

- Average first year electric bill savings is calculated by multiplying an average electric rate with first year net kWh energy savings.
- Average first year gas bill savings is calculated by multiplying an average gas rate with first year net therm energy savings.
- Total average first year bill savings is the sum of Notes 1 and 2.
- Average lifecycle electric bill savings is calculated by multiplying an average electric rate with lifecycle net kWh energy savings.
- Average lifecycle gas bill savings is calculated by multiplying an average gas rate with lifecycle net therm energy savings.
- Total average lifecycle bill savings is the sum of Notes 4 and 5.
- Total Annual and Lifecycle Bill Savings excluded savings from Codes & Standards and ESA Programs

Table 2a - Electric Bill Payer Impacts - Current and Proposed Revenues and Rates, Total and Energy Efficiency, by Customer Class with the return of unspent/uncommitted PY 2018 funds

Customer Classes	2017 Total Electric Annual Revenue $000	2017 Energy Efficiency Portion of Total Electric Annual Revenue $000	2018 Energy Efficiency Portion of Total Electric Annual Revenue $000	2019 Proposed Energy Efficiency Electric Annual Revenue Change $000	2019 Proposed Percentage Change In Electric Revenue and Rates	2017 Electric Average Rate $/kwh	2017 Energy Efficiency Portion of Electric Average Rate $/kwh	2018 Electric Average Rate $/kwh	2018 Energy Efficiency Portion of Electric Average Rate $/kwh	2019 Proposed Electric Average Rate Change $/kwh	2019 Proposed Percentage Change In Electric Revenue and Rates
Bundled											
Domestic	$ 4,889,673	$ 125,447	$ 98,417	$ (1,519)	-1.5%	$ 0.1780	$ 0.0048	$ 0.1820	$ 0.0037	$ 0.0037	-1.5%
Lighting SM Med Power	$ 4,104,737	$ 105,310	$ 82,592	$ (1,275)	-1.5%	$ 0.1690	$ 0.0045	$ 0.1730	$ 0.0035	$ 0.0035	-1.5%
Large Power	$ 1,887,365	$ 48,421	$ 39,396	$ (608)	-1.5%	$ 0.1160	$ 0.0031	$ 0.1200	$ 0.0024	$ 0.0024	-1.5%
Agricultural & Pumping	$ 408,437	$ 10,479	$ 8,898	$ (137)	-1.5%	$ 0.1270	$ 0.0034	$ 0.1350	$ 0.0028	$ 0.0027	-1.5%
Street & Area Lighting	$ 128,959	$ 3,309	$ 2,506	$ (39)	-1.5%	$ 0.1810	$ 0.0051	$ 0.1860	$ 0.0038	$ 0.0037	-1.5%
Direct Access Service											
Residential	$ 39,890	$ 1,023	$ 1,108	$ (17)	-1.5%	$ 0.1050	$ 0.0031	$ 0.1090	$ 0.0022	$ 0.0022	-1.5%
Commercial - Small	$ 326,864	$ 8,386	$ 7,298	$ (113)	-1.5%	$ 0.0790	$ 0.0023	$ 0.0850	$ 0.0017	$ 0.0017	-1.5%
Commercial - Medium	$ 375,757	$ 9,640	$ 8,139	$ (126)	-1.5%	$ 0.0550	$ 0.0016	$ 0.0570	$ 0.0012	$ 0.0011	-1.5%
Commercial - Large	$ 5,579	$ 143	$ 125	$ (2)	-1.5%	$ 0.0670	$ 0.0019	$ 0.0660	$ 0.0013	$ 0.0013	-1.5%
Agricultural	$ 4,311	$ 111	$ 84	$ (1)	-1.5%	$ 0.1210	$ 0.0025	$ 0.1020	$ 0.0021	$ 0.0020	-1.5%

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

Customer Classes	[1] 2019 EE Portfolio Budget less Unspent/Uncommitted Program Carryover Funds from PY 2018	2017 Energy Efficiency Portion of Total Electric Annual Revenue $000	2018 Energy Efficiency Portion of Total Electric Annual Revenue $000	2019 Proposed Energy Efficiency Electric Annual Revenue Change $000	2019 Proposed Percentage Change In Electric Revenue and Rates	2017 Electric Average Rate $/kwh	2017 Energy Efficiency Portion of Electric Average Rate $/kwh	2018 Electric Average Rate $/kwh	2018 Energy Efficiency Portion of Electric Average Rate $/kwh	2019 Proposed Electric Average Rate Change $/kwh	2019 Proposed Percentage Change In Electric Revenue and Rates
Bundled											
Domestic											
Lighting SM Med Power											
Large Power											
Agricultural & Pumping											
Street & Area Lighting											
Direct Access Service											
Residential											
Commercial - Small											
Commercial - Medium											
Commercial - Large											
Agricultural											

Table 3 - Budget and Cost Recovery by Funding Source

	2019
2019 EE Portfolio Budget	$ 249,896,218
Unspent/Uncommitted EM&V Carryover Funds from 2018	$ -
Unspent/Uncommitted Program Carryover Funds from 2018	$ 5,169,321
Unspent/Uncommitted EM&V Carryover Funds from 2017	$ -
Unspent/Uncommitted Program Carryover Funds from 2017	$ 60,401,347
Unspent/Uncommitted EM&V Carryover Funds from 2016	$ -
Unspent/Uncommitted Program Carryover Funds from 2016	$ 54,508,557
Unspent/Uncommitted EM&V Carryover Funds from 2013-2015	$ -
Unspent/Uncommitted Program Carryover Funds from 2013-2015	$ 29,801,403
Unspent/Uncommitted EM&V Carryover Funds from 2010-2012	$ 4,187,764
Unspent/Uncommitted Program Carryover Funds from 2010-2012	$ 5,519,164
Unspent/Uncommitted EM&V Carryover Funds from Pre 2010	$ 913,672
Unspent/Uncommitted Program Carryover Funds from Pre 2010	$ -
Total Funding Request for 2019 EE Portfolio [1]	**$ 244,726,897**

[1] 2019 EE Portfolio Budget less Unspent/Uncommitted Program Carryover Funds from PY 2018

Budget by Funding Source

2019 Authorized (Before Carryover)	2019 Budget	Allocation
Electric Procurement EE Funds	$ 249,896,218	100%
Gas PPP Surcharge Funds	$ -	
Total Funds	**$ 249,896,218**	

Revenue Requirement for Cost Recovery by Funding Source

2019 Authorized Funding in Rates (including carryover) [1]	2019 Revenue Requirement	Allocation after Carryover adjustment
Electric Procurement EE Funds	$ 244,726,897	100%
Gas PPP Surcharge Funds	$ -	
Total Funds	**$ 244,726,897**	

[1] 2019 EE Portfolio Budget less Unspent/Uncommitted Program Carryover Funds from PY 2018

Unspent/Uncommitted Carryover Funds (in positive $ amounts)

Total Unspent/Uncommitted Funds	Electric PGC	Electric Procurement	Total Electric	Gas
2018	$ -	$ 5,169,321	$ 5,169,321	$ -
2017	$ -	$ 60,401,347	$ 60,401,347	$ -
2016	$ -	$ 54,508,557	$ 54,508,557	$ -
2013-2015	$ -	$ 29,801,403	$ 29,801,403	$ -
2010-2012	$ -	$ 9,706,928	$ 9,706,928	$ -
Pre 2010	$ -	$ 913,672	$ 913,672	$ -
Total Unspent/Uncommitted Funds	**$ -**	**$ 160,501,228**	**$ 160,501,228**	**$ -**

EM&V Unspent/Uncommitted Funds	Electric PGC	Electric Procurement	Total Electric	Gas
2018	$ -	$ -	$ -	$ -
2017	$ -	$ -	$ -	$ -
2016	$ -	$ -	$ -	$ -
2013-2015	$ -	$ -	$ -	$ -
2010-2012	$ -	$ 4,187,764	$ 4,187,764	$ -
Pre 2010	$ -	$ 913,672	$ 913,672	$ -
Total EM&V Unspent/Uncommitted Funds	**$ -**	**$ 5,101,436**	**$ 5,101,436**	**$ -**

Program Unspent/Uncommitted Funds	Electric PGC	Electric Procurement	Total Electric	Gas
2018	$ -	$ 5,169,321	$ 5,169,321	$ -
2017	$ -	$ 60,401,347	$ 60,401,347	$ -
2016	$ -	$ 54,508,557	$ 54,508,557	$ -
2013-2015	$ -	$ 29,801,403	$ 29,801,403	$ -
2010-2012	$ -	$ 5,519,164	$ 5,519,164	$ -
Pre 2010	$ -	$ -	$ -	$ -
Total Program Unspent/Uncommitted Funds	**$ -**	**$ 155,399,792**	**$ 155,399,792**	**$ -**

Table 4 – Budget, Spent, Unspent, Carryover Details

New/Existing Program #	Main Program Name / Sub-Program Name	2013-2015 Budget, Spent, Unspent and Carryover							2016 Budget, Spent, Unspent and Carryover					
		2013-2015 Authorized Budget [1]	2013-2015 Total Budget with Commitments & Fundshifts	2013-2015 Total Budget Spent as of June 30, 2018	Pre-2013 Commitments Remaining as of 06/30/2018	2013-2015 Unspent/Uncommitted Funds Returned to Ratepayers [2]	2013-2015 Commitments as of 06/30/2018	Pre-2016 Unspent/Uncommitted Funds Available for 2019 offset	2016 Authorized Budget [3]	2016 Total Budget with Commitments & Fundshifts [4]	2016 Total Budget Spent as of June 30, 2018	2016 Unspent/Uncommitted Funds Returned to Ratepayers	2016 Commitments as of 06/30/2018	2016 Unspent/Uncommitted Funds Available for 2019 offset
SCE-13-SW-001	**California Statewide Program for Residential Energy Efficiency**	**$ 141,427,900**	**$ 140,714,900**	**$ 135,611,825**	**$ -**	**$ -**	**$ 1,887,518**	**$ -**	**$ 50,527,900**	**$ 48,577,900**	**$ 41,736,143**	**$ -**	**$ 3,426,375**	**$ -**
SCE-13-SW-001A	Energy Advisor Program	$ 10,910,199	$ 15,722,199	$ 15,714,417	$ -	$ -	$ -	$ -	$ 4,090,800	$ 7,290,800	$ 7,276,732	$ -	$ -	$ -
SCE-13-SW-001B	Plug Load and Appliances Program	$ 42,546,469	$ 43,341,469	$ 43,307,347	$ -	$ -	$ -	$ -	$ 13,955,244	$ 7,184,244	$ 6,596,509	$ -	$ -	$ -
SCE-13-SW-001C	Multifamily Energy Efficiency Rebate Program	$ 34,596,613	$ 27,156,613	$ 27,141,708	$ -	$ -	$ -	$ -	$ 11,100,651	$ 11,110,651	$ 10,187,714	$ -	$ -	$ -
SCE-13-SW-001D	Energy Upgrade California	$ 29,006,566	$ 21,236,566	$ 21,249,385	$ -	$ -	$ -	$ -	$ 11,995,785	$ 11,985,785	$ 11,251,866	$ -	$ -	$ -
SCE-13-SW-001E	Residential HVAC Program	$ 12,599,368	$ 12,279,368	$ 12,265,738	$ -	$ -	$ -	$ -	$ 5,134,191	$ 2,034,191	$ 1,991,501	$ -	$ -	$ -
SCE-13-SW-001F	Residential New Construction Program	$ 11,768,685	$ 20,978,685	$ 15,933,231	$ -	$ -	$ 1,887,518	$ -	$ 4,251,229	$ 8,972,229	$ 4,431,821	$ -	$ 3,426,375	$ -
SCE-13-SW-001G	Residential Direct Install Program	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
SCE-13-SW-002	**Statewide Commercial Energy Efficiency Program**	**$ 264,756,656**	**$ 317,762,187**	**$ 312,759,708**	**$ -**	**$ -**	**$ 1,585,027**	**$ -**	**$ 93,356,656**	**$ 83,896,656**	**$ 74,132,096**	**$ -**	**$ 362,994**	**$ -**
SCE-13-SW-002A	Commercial Energy Advisor Program	$ 13,295,208	$ 6,561,208	$ 6,837,790	$ -	$ -	$ -	$ -	$ 6,230,255	$ 2,930,255	$ 2,595,696	$ -	$ -	$ -
SCE-13-SW-002B	Commercial Calculated Program	$ 22,384,072	$ 33,550,467	$ 32,974,128	$ -	$ -	$ -	$ -	$ 6,297,012	$ 6,297,012	$ 5,769,150	$ -	$ 15,285	$ -
SCE-13-SW-002C	Commercial Deemed Incentives Program	$ 46,143,445	$ 54,123,793	$ 52,908,162	$ -	$ -	$ -	$ -	$ 11,583,112	$ 8,623,112	$ 6,275,727	$ -	$ -	$ -
SCE-13-SW-002D	Commercial Direct Install Program	$ 60,225,014	$ 102,013,524	$ 101,777,659	$ -	$ -	$ 331	$ -	$ 25,149,589	$ 21,949,589	$ 21,172,411	$ -	$ 4,631	$ -
SCE-13-SW-002E	Commercial Continuous Energy Improvement Program	$ 3,878,825	$ 2,508,825	$ 2,431,428	$ -	$ -	$ -	$ -	$ 1,269,525	$ 1,269,525	$ 344,632	$ -	$ -	$ -
SCE-13-SW-002F	Nonresidential HVAC Program	$ 92,267,570	$ 92,453,848	$ 92,448,853	$ -	$ -	$ -	$ -	$ 34,087,935	$ 34,087,935	$ 33,619,920	$ -	$ -	$ -
SCE-13-SW-002G	Savings By Design	$ 26,562,522	$ 26,550,522	$ 23,381,688	$ -	$ -	$ 1,584,696	$ -	$ 8,739,228	$ 8,739,228	$ 4,354,560	$ -	$ 343,078	$ -
SCE-13-SW-002H	Midstream Point of Purchase Program	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
SCE-13-SW-003	**Statewide Industrial Energy Efficiency Program**	**$ 41,249,085**	**$ 18,439,895**	**$ 17,982,181**	**$ -**	**$ -**	**$ -**	**$ -**	**$ 8,449,087**	**$ 8,049,087**	**$ 4,438,801**	**$ -**	**$ 8,108**	**$ -**
SCE-13-SW-003A	Industrial Energy Advisor Program	$ 5,465,548	$ 1,450,548	$ 1,491,770	$ -	$ -	$ -	$ -	$ 1,794,545	$ 1,394,545	$ 953,535	$ -	$ -	$ -
SCE-13-SW-003B	Industrial Calculated Energy Efficiency Program	$ 22,385,982	$ 10,969,835	$ 10,586,708	$ -	$ -	$ -	$ -	$ 4,212,157	$ 4,212,157	$ 1,635,405	$ -	$ 8,108	$ -
SCE-13-SW-003C	Industrial Deemed Energy Efficiency Program	$ 10,971,906	$ 4,788,863	$ 4,669,053	$ -	$ -	$ -	$ -	$ 1,555,273	$ 1,555,273	$ 1,421,630	$ -	$ -	$ -
SCE-13-SW-003D	Strategic Energy Management Program	$ 2,425,649	$ 1,230,649	$ 1,234,651	$ -	$ -	$ -	$ -	$ 887,112	$ 887,112	$ 428,231	$ -	$ -	$ -
SCE-13-SW-004	**Statewide Agriculture Energy Efficiency Program**	**$ 15,942,620**	**$ 21,026,104**	**$ 17,720,559**	**$ -**	**$ -**	**$ -**	**$ -**	**$ 5,482,620**	**$ 5,082,620**	**$ 3,178,503**	**$ -**	**$ 21,694**	**$ -**
SCE-13-SW-004A	Agriculture Energy Advisor Program	$ 9,093,983	$ 5,025,800	$ 5,135,159	$ -	$ -	$ -	$ -	$ 3,172,896	$ 2,772,896	$ 1,634,270	$ -	$ -	$ -
SCE-13-SW-004B	Agriculture Calculated Energy Efficiency Program	$ 4,368,055	$ 12,670,722	$ 9,260,723	$ -	$ -	$ -	$ -	$ 1,136,820	$ 1,157,820	$ 1,067,064	$ -	$ 21,694	$ -
SCE-13-SW-004C	Agriculture Deemed Energy Efficiency Program	$ 1,772,460	$ 3,102,460	$ 3,099,649	$ -	$ -	$ -	$ -	$ 836,138	$ 815,138	$ 430,251	$ -	$ -	$ -
SCE-13-SW-004D	Agriculture Continuous Energy Improvement Program	$ 708,122	$ 227,122	$ 225,028	$ -	$ -	$ -	$ -	$ 336,766	$ 336,766	$ 46,918	$ -	$ -	$ -
SCE-13-SW-005	**Lighting Program**	**$ 72,315,318**	**$ 71,080,318**	**$ 70,799,029**	**$ -**	**$ -**	**$ -**	**$ -**	**$ 35,254,239**	**$ 46,624,240**	**$ 46,751,560**	**$ -**	**$ -**	**$ -**
SCE-13-SW-005A	Lighting Market Transformation Program	$ 986,473	$ 561,473	$ 557,168	$ -	$ -	$ -	$ -	$ 316,245	$ 76,245	$ 69,764	$ -	$ -	$ -
SCE-13-SW-005B	Lighting Innovation Program	$ 19,479,794	$ 5,199,794	$ 5,497,589	$ -	$ -	$ -	$ -	$ 6,812,979	$ 6,772,979	$ 6,797,678	$ -	$ -	$ -
SCE-13-SW-005C	Primary Lighting Program	$ 51,849,051	$ 65,319,051	$ 64,744,272	$ -	$ -	$ -	$ -	$ 28,125,015	$ 39,775,016	$ 39,884,118	$ -	$ -	$ -
SCE-13-SW-006	**Integrated Demand Side Management Program**	**$ 2,052,374**	**$ 922,374**	**$ 919,365**	**$ -**	**$ -**	**$ -**	**$ -**	**$ 697,374**	**$ 697,374**	**$ 89,400**	**$ -**	**$ -**	**$ -**
SCE-13-SW-007	**Statewide Finance Program**	**$ 97,519,770**	**$ 90,828,504**	**$ 39,347,510**	**$ -**	**$ -**	**$ 48,699,177**	**$ -**	**$ 16,294,768**	**$ 16,294,768**	**$ 6,854,326**	**$ -**	**$ 6,391,100**	**$ -**
SCE-13-SW-007A	On-Bill Financing	$ 15,255,475	$ 8,564,209	$ 6,612,251	$ -	$ -	$ -	$ -	$ 4,655,336	$ 4,655,336	$ 1,324,757	$ -	$ -	$ -
SCE-13-SW-007A1	Finance Revolving Loan	$ 77,762,297	$ 66,257,882	$ 20,497,674			$ 45,760,208	$ -	$ 11,200,000	$ 11,200,000	$ 4,808,900	$ -	$ 6,391,100	$ -
SCE-13-SW-007B	ARRA-Originated Financing	$ 1,644,003	$ 3,565,973	$ 2,736,114	$ -	$ -	$ -	$ -	$ 439,432	$ 439,432	$ 720,669	$ -	$ -	$ -
SCE-13-SW-007C	New Finance Offerings	$ 2,857,995	$ 12,440,440	$ 9,501,471	$ -	$ -	$ 2,938,969	$ -	$ -	$ -	$ -	$ -	$ -	$ -
SCE-13-SW-008	**Codes and Standards Program**	**$ 17,739,328**	**$ 17,739,328**	**$ 15,378,388**	**$ -**	**$ -**	**$ -**	**$ -**	**$ 5,977,851**	**$ 6,017,851**	**$ 5,290,230**	**$ -**	**$ -**	**$ -**
SCE-13-SW-008A	Building Codes and Compliance Advocacy	$ 5,160,764	$ 5,160,764	$ 3,730,611	$ -	$ -	$ -	$ -	$ 1,739,244	$ 1,739,244	$ 1,693,652	$ -	$ -	$ -
SCE-13-SW-008B	Appliance Standards Advocacy	$ 5,160,765	$ 5,160,765	$ 5,016,477	$ -	$ -	$ -	$ -	$ 1,739,244	$ 1,739,244	$ 1,052,761	$ -	$ -	$ -
SCE-13-SW-008C	Compliance Improvement	$ 2,419,108	$ 3,944,108	$ 4,898,873	$ -	$ -	$ -	$ -	$ 815,270	$ 855,270	$ 1,755,968	$ -	$ -	$ -
SCE-13-SW-008D	Reach Codes	$ 1,612,739	$ 1,362,739	$ 647,568	$ -	$ -	$ -	$ -	$ 543,514	$ 543,514	$ 294,775	$ -	$ -	$ -
SCE-13-SW-008E	Planning and Coordination	$ 3,385,953	$ 2,110,953	$ 1,084,859	$ -	$ -	$ -	$ -	$ 1,140,579	$ 1,140,579	$ 493,074	$ -	$ -	$ -
SCE-13-SW-008F	National and International Standards	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
SCE-13-SW-009	**Emerging Technologies Program**	**$ 31,953,610**	**$ 31,953,610**	**$ 25,045,745**	**$ -**	**$ -**	**$ 6,059,483**	**$ -**	**$ 10,768,180**	**$ 10,768,179**	**$ 8,019,064**	**$ -**	**$ 755,134**	**$ -**
SCE-13-SW-009A	Technology Development Support	$ 5,557,769	$ 5,557,769	$ 6,548,928	$ -	$ -	$ 6,059,483	$ -	$ 1,873,259	$ 1,873,259	$ 1,557,115	$ -	$ 755,134	$ -
SCE-13-SW-009B	Technology Assessments	$ 12,494,955	$ 12,494,955	$ 12,196,331	$ -	$ -	$ -	$ -	$ 4,210,158	$ 4,210,158	$ 4,138,624	$ -	$ -	$ -
SCE-13-SW-009C	Technology Introduction Support	$ 13,900,886	$ 13,900,886	$ 6,300,486	$ -	$ -	$ -	$ -	$ 4,684,763	$ 4,684,762	$ 2,323,324	$ -	$ -	$ -
SCE-13-SW-010	**Workforce Education & Training**	**$ 27,154,655**	**$ 27,973,655**	**$ 27,957,687**	**$ -**	**$ -**	**$ -**	**$ -**	**$ 9,164,656**	**$ 9,964,656**	**$ 8,389,192**	**$ -**	**$ -**	**$ -**
SCE-13-SW-010A	WE&T Centergies	$ 16,714,127	$ 17,825,127	$ 17,833,988	$ -	$ -	$ -	$ -	$ 5,614,128	$ 6,414,128	$ 6,369,197	$ -	$ -	$ -
SCE-13-SW-010B	WE&T Connections	$ 10,126,167	$ 9,834,167	$ 9,831,537	$ -	$ -	$ -	$ -	$ 3,426,167	$ 3,426,167	$ 1,943,346	$ -	$ -	$ -
SCE-13-SW-010C	WE&T Planning	$ 314,361	$ 314,361	$ 292,162	$ -	$ -	$ -	$ -	$ 124,361	$ 124,361	$ 76,649	$ -	$ -	$ -
SCE-13-L-001	**Integrated Demand Side Management Pilot for Food Processing**	**$ 544,886**	**$ 257,886**	**$ 256,524**	**$ -**	**$ -**	**$ -**	**$ -**	**$ 189,886**	**$ 189,886**	**$ 3,702**	**$ -**	**$ -**	**$ -**
SCE-13-L-002	**Energy Leader Partnership Program**	**$ 45,973,944**	**$ 43,374,757**	**$ 39,833,451**	**$ -**	**$ -**	**$ 96,438**	**$ -**	**$ 12,758,860**	**$ 14,030,826**	**$ 9,578,850**	**$ -**	**$ 260,701**	**$ -**
SCE-13-L-002Rollup	Energy Leader Partnership Program	$ 1,246,707	$ 386,320	$ 156,105	$ -	$ -	$ -	$ -	$ -	$ 534,876	$ 25,955	$ -	$ -	$ -
SCE-13-L-002A	City of Beaumont Energy Leader Partnership	$ 293,175	$ 230,675	$ 181,971	$ -	$ -	$ -	$ -	$ 104,193	$ 35,000	$ 20,032	$ -	$ -	$ -
SCE-13-L-002B	City of Long Beach Energy Leader Partnership	$ 826,422	$ 3,999,946	$ 2,902,691	$ -	$ -	$ -	$ -	$ 282,379	$ 602,379	$ 571,598	$ -	$ -	$ -
SCE-13-L-002C	City of Redlands Energy Leader Partnership	$ 721,125	$ 565,375	$ 529,938	$ -	$ -	$ -	$ -	$ 173,306	$ 173,306	$ 99,598	$ -	$ -	$ -
SCE-13-L-002D	City of Santa Ana Energy Leader Partnership	$ 1,162,083	$ 1,128,676	$ 916,951	$ -	$ -	$ -	$ -	$ 529,884	$ 529,884	$ 189,284	$ -	$ -	$ -
SCE-13-L-002E	City of Simi Valley Energy Leader Partnership	$ 290,462	$ 232,462	$ 207,973	$ -	$ -	$ -	$ -	$ 126,492	$ 26,992	$ 26,874	$ -	$ -	$ -
SCE-13-L-002F	Gateway Cities Energy Leader Partnership	$ 1,822,030	$ 1,434,781	$ 1,290,600	$ -	$ -	$ -	$ -	$ 676,543	$ 1,122,543	$ 1,096,506	$ -	$ 20,802	$ -
SCE-13-L-002G	Community Energy Leader Partnership	$ 5,025,733	$ 4,573,994	$ 4,079,780	$ -	$ -	$ -	$ -	$ 1,838,227	$ 1,412,817	$ 996,445	$ -	$ -	$ -
SCE-13-L-002H	Eastern Sierra Energy Leader Partnership	$ 495,364	$ 507,364	$ 509,766	$ -	$ -	$ -	$ -	$ 160,326	$ 160,326	$ 121,884	$ -	$ -	$ -
SCE-13-L-002I	Energy Leader Partnership Strategic Support	$ 1,407,200	$ 1,367,192	$ 1,348,988	$ -	$ -	$ -	$ -	$ 450,115	$ 450,115	$ 447,088	$ -	$ -	$ -
SCE-13-L-002J	Desert Cities Energy Leader Partnership	$ 1,320,724	$ 1,256,350	$ 1,254,627	$ -	$ -	$ -	$ -	$ 441,977	$ 441,977	$ 279,492	$ -	$ -	$ -
SCE-13-L-002K	Kern County Energy Leader Partnership	$ 651,730	$ 812,951	$ 841,898	$ -	$ -	$ -	$ -	$ 183,071	$ 183,071	$ 110,048	$ -	$ -	$ -
SCE-13-L-002L	Orange County Cities Energy Leader Partnership	$ 3,311,177	$ 1,450,904	$ 1,278,013	$ -	$ -	$ -	$ -	$ 1,115,409	$ 843,409	$ 774,438	$ -	$ 24,681	$ -
SCE-13-L-002M	San Gabriel Valley Energy Leader Partnership	$ 1,772,135	$ 2,409,144	$ 2,357,401	$ -	$ -	$ -	$ -	$ 583,199	$ 583,199	$ 419,371	$ -	$ -	$ -
SCE-13-L-002N	San Joaquin Valley Energy Leader Partnership	$ 3,128,471	$ 2,014,653	$ 2,344,606	$ -	$ -	$ -	$ -	$ 894,159	$ 594,159	$ 354,628	$ -	$ -	$ -
SCE-13-L-002O	South Bay Energy Leader Partnership	$ 3,013,867	$ 3,156,812	$ 3,158,434	$ -	$ -	$ 25,268	$ -	$ 1,112,391	$ 1,627,391	$ 1,374,522	$ -	$ 214,086	$ -
SCE-13-L-002P	South Santa Barbara County Energy Leader Partnership	$ 1,172,590	$ 1,253,590	$ 1,238,910	$ -	$ -	$ -	$ -	$ 362,010	$ 362,010	$ 286,786	$ -	$ -	$ -
SCE-13-L-002Q	Ventura County Energy Leader Partnership	$ 2,217,985	$ 2,473,427	$ 2,437,789	$ -	$ -	$ 19,253	$ -	$ 893,279	$ 893,279	$ 430,849	$ -	$ -	$ -
SCE-13-L-002R	Western Riverside Energy Leader Partnership	$ 1,310,681	$ 975,067	$ 928,179	$ -	$ -	$ -	$ -	$ 447,518	$ 197,518	$ 181,851	$ -	$ -	$ -
SCE-13-L-002S	High Desert Regional Energy Leader Partnership	$ 451,662	$ 476,662	$ 451,441	$ -	$ -	$ -	$ -	$ 141,699	$ 76,699	$ 148,139	$ -	$ -	$ -
SCE-13-L-002T	West Side Community Energy Leader Partnership	$ 654,869	$ 1,060,869	$ 802,004	$ -	$ -	$ -	$ -	$ 249,222	$ 250,222	$ 172,926	$ -	$ -	$ -
SCE-13-L-002U	Local Government Strategic Planning Pilot Program	$ 7,528,395	$ 7,023,346	$ 6,988,262	$ -	$ -	$ -	$ -	$ -	$ 846,192	$ 176,146	$ -	$ -	$ -
SCE-13-L-002V	North Orange County Cities	$ -	$ 185,000	$ 69,556	$ -	$ -	$ -	$ -	$ -	$ 252,000	$ 238,367	$ -	$ -	$ -
SCE-13-L-002W	San Bernardino Association of Governments	$ -	$ 194,250	$ 19,077	$ -	$ -	$ -	$ -	$ -	$ 160,000	$ 157,332	$ -	$ 1,132	$ -
SCE-13-L-002X	Water Energy Nexus Program	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ 100,000	$ 20,248	$ -	$ -	$ -
SCE-13-L-003C	County of Los Angeles Energy Efficiency Partnership	$ 3,132,504	$ 2,301,545	$ 1,988,877	$ -	$ -	$ 51,917	$ -	$ 974,519	$ 834,519	$ 525,549	$ -	$ -	$ -
SCE-13-L-003D	County of Riverside Energy Efficiency Partnership	$ 1,462,819	$ 852,325	$ 480,856	$ -	$ -	$ -	$ -	$ 448,865	$ 308,865	$ 133,822	$ -	$ -	$ -
SCE-13-L-003E	County of San Bernardino Energy Efficiency Partnership	$ 1,554,031	$ 1,051,074	$ 1,068,758	$ -	$ -	$ -	$ -	$ 570,078	$ 428,078	$ 199,072	$ -	$ -	$ -
SCE-13-L-003	**Institutional and Government Core Energy Efficiency Partnershi**	**$ 27,952,036**	**$ 24,536,673**	**$ 21,916,099**	**$ -**	**$ -**	**$ 656,590**	**$ -**	**$ 10,927,118**	**$ 9,655,153**	**$ 4,007,862**	**$ -**	**$ 779,522**	**$ -**
SCE-13-L-003A	California Community Colleges Energy Efficiency Partnership	$ 8,966,248	$ 11,185,724	$ 10,215,665	$ -	$ -	$ 538,884	$ -	$ 3,075,165	$ 3,075,165	$ 1,982,006	$ -	$ 699,414	$ -
SCE-13-L-003B	California Dept. of Corrections and Rehabilitation EE Partnership	$ 2,598,053	$ 1,626,561	$ 1,162,204	$ -	$ -	$ 34,534	$ -	$ 644,167	$ 644,167	$ 163,544	$ -	$ -	$ -
SCE-13-L-003F	State of California Energy Efficiency Partnership	$ 2,609,966	$ 1,627,995	$ 1,604,660	$ -	$ -	$ 8,778	$ -	$ 744,787	$ 744,787	$ 377,140	$ -	$ 80,108	$ -
SCE-13-L-003G	UC/CSU Energy Efficiency Partnership	$ 11,698,158	$ 10,096,258	$ 8,933,435	$ -	$ -	$ 74,394	$ -	$ 4,383,388	$ 3,111,423	$ 1,485,172	$ -	$ -	$ -
SCE-13-L-003H	Federals Energy Efficiency Partnership	$ 2,079,611	$ 135	$ 135	$ -	$ -	$ -	$ -	$ 2,079,611	$ 2,079,611	$ -	$ -	$ -	$ -
SCE-13-L-003I	Public Sector Performance-Based Retrofit High Opportunity Progra	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
	Residential Third Party Programs	**$ 8,173,826**	**$ 11,984,626**	**$ 11,977,189**	**$ -**	**$ -**	**$ 100**	**$ -**	**$ 3,022,439**	**$ 3,852,439**	**$ 3,723,975**	**$ -**	**$ -**	**$ -**
SCE-13-TP-001	Comprehensive Manufactured Homes	$ 8,173,826	$ 11,984,626	$ 11,977,189	$ -	$ -	$ 100	$ -	$ 3,022,439	$ 3,852,439	$ 3,723,975	$ -	$ -	$ -
SCE-13-TP-024	AB793 Residential Pay for Performance	$ -	$ -	$ -	$ -	$ -	$ -				$ -	$ -	$ -	$ -
SCE-13-TP-026	Residential 3P Solicitation	$ -		$ -			$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
	Commercial Third Party Programs	**$ 48,848,375**	**$ 34,108,055**	**$ 34,290,264**	**$ -**	**$ -**	**$ 161,041**	**$ -**	**$ 14,095,663**	**$ 14,095,663**	**$ 8,136,067**	**$ -**	**$ 647,310**	**$ -**
SCE-13-TP-002	Cool Planet	$ 703,890	$ 668,890	$ 666,153	$ -	$ -	$ -	$ -	$ 240,056	$ 240,056	$ 171,140	$ -	$ -	$ -
SCE-13-TP-003	Healthcare EE Program	$ 5,034,204	$ 5,404,204	$ 5,657,947	$ -	$ -	$ 50,486	$ -	$ 1,767,331	$ 1,767,331	$ 1,201,374	$ -	$ 21,870	$ -
SCE-13-TP-004	Data Center Energy Efficiency	$ 7,234,047	$ 7,038,487	$ 6,960,368	$ -	$ -	$ 75,517	$ -	$ 2,340,661	$ 2,340,661	$ 357,576	$ -	$ -	$ -
SCE-13-TP-005	Lodging EE Program	$ 6,654,161	$ 6,041,161	$ 6,019,987	$ -	$ -	$ -	$ -	$ 2,235,450	$ 2,235,450	$ 535,970	$ -	$ 360,170	$ -
SCE-13-TP-013	Cool Schools	$ 5,081,800	$ 2,361,800	$ 2,364,236	$ -	$ -	$ -	$ -	$ 2,834,054	$ 1,334,054	$ 702,736	$ -	$ -	$ -
SCE-13-TP-014	Commercial Utility Building Efficiency	$ 7,439,441	$ 2,960,191	$ 2,958,384	$ -	$ -	$ -	$ -	$ 2,687,097	$ 1,527,097	$ 564,530	$ -	$ 174,876	$ -
SCE-13-TP-017	Energy Efficiency for Entertainment Centers	$ 2,577,117	$ 1,582,117	$ 1,578,941	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
SCE-13-TP-018	School Energy Efficiency Program	$ 11,746,859	$ 6,370,349	$ 6,369,518	$ -	$ -	$ -	$ -	$ 1,004,898	$ 3,664,898	$ 4,246,664	$ -	$ -	$ -
SCE-13-TP-021	Enhanced Retrocommissioning	$ 2,376,856	$ 1,680,856	$ 1,714,730	$ -	$ -	$ 35,038	$ -	$ 986,116	$ 986,116	$ 356,078	$ -	$ 90,394	$ -
SCE-13-TP-027	Commercial 3P Solicitation	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
SCE-13-TP-025	Facility Assessment Program	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
	Industrial Third Party Programs	**$ 72,965,811**	**$ 67,847,322**	**$ 49,089,962**	**$ -**	**$ -**	**$ 3,164,818**	**$ -**	**$ 20,368,334**	**$ 20,368,334**	**$ 6,674,600**	**$ -**	**$ 3,742,473**	**$ -**
SCE-13-TP-006	Food & Kindred Products	$ 13,077,779	$ 8,152,156	$ 6,214,252	$ -	$ -	$ 32,985	$ -	$ 3,989,783	$ 3,989,783	$ 2,582,085	$ -	$ 54,890	$ -
SCE-13-TP-007	Primary and Fabricated Metals	$ 12,409,866	$ 18,048,000	$ 13,570,037	$ -	$ -	$ 857,152	$ -	$ 4,104,991	$ 4,104,991	$ 1,453,524	$ -	$ 1,934,892	$ -
SCE-13-TP-008	Nonmetallic Minerals and Products	$ 12,112,742	$ 15,753,742	$ 9,326,088	$ -	$ -	$ 1,302,088	$ -	$ 4,627,969	$ 4,627,969	$ 1,365,966	$ -	$ 754,660	$ -
SCE-13-TP-009	Comprehensive Chemical Products	$ 10,678,037	$ 10,347,037	$ 7,146,783	$ -	$ -	$ 99,930	$ -	$ 3,171,077	$ 3,171,077	$ 696,430	$ -	$ 88,610	$ -
SCE-13-TP-010	Comprehensive Petroleum Refining	$ 6,570,184	$ 3,465,184	$ 2,688,644	$ -	$ -	$ 323,430	$ -	$ 1,101,054	$ 1,101,054	$ 330,002	$ -	$ 367,649	$ -
SCE-13-TP-011	Oil Production	$ 10,177,932	$ 10,377,932	$ 8,441,480	$ -	$ -	$ 549,233	$ -	$ 3,373,460	$ 3,373,460	$ 246,593	$ -	$ 541,772	$ -
SCE-13-TP-012	Refinery Energy Efficiency Program	$ 7,939,271	$ 1,703,271	$ 1,702,678	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
SCE-13-TP-023	Midsize Industrial Customer Program	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
SCE-13-TP-028	Industrial 3P Solicitation	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
	Cross Cutting Third Party Programs	**$ 15,899,606**	**$ 11,919,606**	**$ 8,332,901**	**$ -**	**$ -**	**$ 3,116,016**	**$ -**	**$ 5,337,369**	**$ 4,507,368**	**$ 1,239,464**	**$ -**	**$ 1,629,583**	**$ -**
SCE-13-TP-019	Sustainable Communities	$ 3,346,951	$ 2,816,951	$ 2,834,222	$ -	$ -	$ -	$ -	$ 1,142,715	$ 1,142,714	$ 438,171	$ -	$ -	$ -
SCE-13-TP-020	IDEEA365 Program	$ 12,552,655	$ 9,102,655	$ 5,498,679	$ -	$ -	$ 3,116,016	$ -	$ 4,194,654	$ 3,364,654	$ 801,293	$ -	$ 1,629,583	$ -
SCE-13-TP-022	Water Infrastructure Systems Energy Efficiency Program	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
SCE-13-TP-029	Local Government 3P Solicitation	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
		$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
	PA Sub-Total	**$ 932,469,800**	**$ 932,469,800**	**$ 829,218,386**	**$ -**	**$ 9,391,000**	**$ 65,426,208**	**$ 35,320,567**	**$ 302,673,000**	**$ 302,673,000**	**$ 232,243,836**	**$ -**	**$ 18,024,994**	**$ 54,508,557**
	EM&V (PA & CPUC Portions) Total	**$ 41,997,374**	**$ 41,997,374**	**$ 38,043,783**	**$ -**	**$ -**	**$ 3,953,591**	**$ 5,101,436**	**$ 13,333,000**	**$ 13,333,000**	**$ 778,171**	**$ -**	**$ 12,554,829**	**$ -**
SCE-3OV0100	EM&V - SCE	$ 11,549,277	$ 11,549,277	$ 9,359,051	$ -	$ -	$ 2,190,226	$ 3,585,843	$ 3,666,575	$ 3,666,575	$ 726,079	$ -	$ 2,940,496	$ -
SCE-3OV0200	EM&V - CPUC	$ 30,448,097	$ 30,448,097	$ 28,684,732	$ -	$ -	$ 1,763,365	$ 1,515,593	$ 9,666,425	$ 9,666,425	$ 52,092	$ -	$ 9,614,333	$ -
	Total SCE Portfolio	**$ 974,467,174**	**$ 974,467,174**	**$ 867,262,169**	**$ -**	**$ 9,391,000**	**$ 69,379,799**	**$ 40,422,003**	**$ 316,006,000**	**$ 316,006,000**	**$ 233,022,006**	**$ -**	**$ 30,579,823**	**$ 54,508,557**
	Lancaster Choice Energy	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
	3CREN	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
	SoCalREN	$ 53,062,167	$ 53,062,167	$ 39,211,204	$ -	$ 11,660,000	$ 2,190,963	$ -	$ 17,314,000	$ 17,314,000	$ 15,460,144	$ -	$ 1,853,856	$ -
	Total EE Portfolio	**$ 1,027,529,341**	**$ 1,027,529,341**	**$ 906,473,372**	**$ -**	**$ 21,051,000**	**$ 71,570,762**	**$ 40,422,003**	**$ 333,320,000**	**$ 333,320,000**	**$ 248,482,150**	**$ -**	**$ 32,433,679**	**$ 54,508,557**

New/Existing Program #	Main Program Name / Sub-Program Name	2017 Budget, Fundshifts and Spending to Date						2018 Budget, Fundshifts and Spending to Date						*2019 Proposed Budget*								
		2017 Authorized Budget	2017 Total Budget with Commitments & Fundshifts	2017 Total Budget Spent as of June 30, 2018	2017 Unspent/Uncommitted Funds Returned to Ratepayers	2017 Commitments as of 06/30/2018	2017 Unspent/Uncommitted Funds Available for 2019 offset	2018 Authorized Budget	2018 Total Budget with Commitments & Fundshifts	2018 Total Budget Spent as of June 30, 2018	2018 Unspent/Uncommitted Funds Returned to Ratepayers	July to December 2018 Forecast to spend and commitment	2018 Unspent/Uncommitted Funds Available for 2019 offset	2019 Proposed Budget	2019 Budget Offset from 2018 Carryover (Col AB)	2019 Funds Requested	Program Type	Business Plan Sector	Resource or Non-resource	Program Status	Utility Grouping
SCE-13-SW-001	**California Statewide Program for Residential Energy Efficiency**	**$ 47,556,605**	**$ 46,296,605**	**$ 38,938,535**	**$ -**	**$ 4,211,248**	**$ -**	**$ 46,464,425**	**$ 46,464,425**	**$ 13,286,556**	**$ -**	**$ 35,360,274**	**$ -**	**$ 50,896,178**	**$ -**	**$ 50,896,178**					
SCE-13-SW-001A	Energy Advisor Program	$ 10,564,472	$ 10,564,472	$ 8,646,967	$ -	$ -	$ -	$ 14,419,867	$ 14,419,867	$ 4,966,904		$ 8,611,392		$ 11,169,006	$ -	$ 11,169,006	Core - SW/3P	Residential	Resource	Existing	Energy Advisor
SCE-13-SW-001B	Plug Load and Appliances Program	$ 6,878,702	$ 7,238,702	$ 7,076,261	$ -	$ -	$ -	$ 7,768,580	$ 7,768,580	$ 2,217,441		$ 7,976,784		$ 9,324,900	$ -	$ 9,324,900	Core - SW	Residential	Resource	Existing	PLA
SCE-13-SW-001C	Multifamily Energy Efficiency Rebate Program	$ 8,977,333	$ 9,683,333	$ 10,094,552	$ -	$ -	$ -	$ 7,807,963	$ 7,807,963	$ 2,392,850		$ 5,997,547		$ 10,022,735	$ -	$ 10,022,735	Core - SW	Residential	Resource	Existing	MFEER
SCE-13-SW-001D	Energy Upgrade California	$ 7,061,692	$ 5,265,692	$ 3,901,296	$ -	$ 6,762	$ -	$ 2,198,798	$ 2,198,798	$ 1,011,995		$ 1,543,279		$ -	$ -	$ -	Core - SW	Residential	Resource	Discontinu	Whole House
SCE-13-SW-001E	Residential HVAC Program	$ 2,295,466	$ 1,075,466	$ 1,107,041	$ -	$ -	$ -	$ 63,404	$ 63,404	$ -		$ 28,831		$ -	$ -	$ -	Core - SW	Residential	Resource	Discontinu	HVAC
SCE-13-SW-001F	Residential New Construction Program	$ 7,585,870	$ 7,585,870	$ 2,514,695	$ -	$ 4,204,486	$ -	$ 6,665,162	$ 6,665,162	$ 334,374		$ 6,294,935		$ 4,809,556	$ -	$ 4,809,556	Core - SW	Residential	Resource	Existing	New Construction
SCE-13-SW-001G	Residential Direct Install Program	$ 4,193,070	$ 4,883,070	$ 5,597,723	$ -	$ -	$ -	$ 7,540,650	$ 7,540,650	$ 2,362,993		$ 4,907,506		$ 15,569,981	$ -	$ 15,569,981	Core - SW/3P	Residential	Resource	Existing	Direct Install
SCE-13-SW-002	**Statewide Commercial Energy Efficiency Program**	**$ 82,693,857**	**$ 82,693,857**	**$ 59,461,278**	**$ -**	**$ 696,190**	**$ -**	**$ 60,917,142**	**$ 60,917,142**	**$ 19,957,774**	**$ -**	**$ 37,160,029**	**$ -**	**$ 40,779,326**	**$ -**	**$ 40,779,326**					
SCE-13-SW-002A	Commercial Energy Advisor Program	$ 2,085,586	$ 2,085,586	$ 956,815	$ -	$ -	$ -	$ 1,562,906	$ 1,562,906	$ 553,868		$ 470,543		$ 1,563,363	$ -	$ 1,563,363	Core - SW/3P	Commercial	Non Resource	Existing	Energy Advisor
SCE-13-SW-002B	Commercial Calculated Program	$ 5,974,271	$ 5,284,271	$ 3,689,701	$ -	$ 256,016	$ -	$ 4,720,422	$ 4,720,422	$ 1,255,109		$ 2,796,191		$ 3,181,667	$ -	$ 3,181,667	Core - SW	Commercial	Resource	Existing	Calculated Incentive
SCE-13-SW-002C	Commercial Deemed Incentives Program	$ 7,295,430	$ 9,895,430	$ 9,800,588	$ -	$ 18,300	$ -	$ 7,769,088	$ 7,769,088	$ 1,875,059		$ 2,768,803		$ 9,966,383	$ -	$ 9,966,383	Core - SW	Commercial	Resource	Existing	Deemed Incentives
SCE-13-SW-002D	Commercial Direct Install Program	$ 19,947,927	$ 19,947,927	$ 15,362,859	$ -	$ 259,214	$ -	$ 20,661,828	$ 20,661,828	$ 9,269,911		$ 10,227,436		$ 12,562,236	$ -	$ 12,562,236	Core - SW/3P	Commercial	Resource	Existing	Direct Install
SCE-13-SW-002E	Commercial Continuous Energy Improvement Program	$ 402,992	$ 402,992	$ 249,125	$ -	$ -	$ -	$ -	$ -	$ 17,874		$ 363		$ -	$ -	$ -	Core - SW	Commercial	Non Resource	Discontinue	CEI
SCE-13-SW-002F	Nonresidential HVAC Program	$ 26,999,135	$ 26,999,135	$ 20,437,082	$ -	$ -	$ -	$ 15,338,380	$ 15,338,380	$ 5,841,794		$ 11,365,953		$ 7,197,308	$ -	$ 7,197,308	Core - SW/3P	Commercial	Resource	Existing	HVAC
SCE-13-SW-002G	Savings By Design	$ 8,362,566	$ 8,362,566	$ 2,418,007	$ -	$ 155,192	$ -	$ 3,877,449	$ 3,877,449	$ 755,728		$ 3,141,797		$ 1,575,095	$ -	$ 1,575,095	Core - SW	Commercial	Resource	Existing	New Construction
SCE-13-SW-002H	Midstream Point of Purchase Program	$ 11,625,949	$ 9,715,949	$ 6,547,101	$ -	$ 7,468	$ -	$ 6,987,069	$ 6,987,069	$ 388,431		$ 6,388,944		$ 4,733,274	$ -	$ 4,733,274	Core - SW	Commercial	Resource	Existing	Lighting Programs
SCE-13-SW-003	**Statewide Industrial Energy Efficiency Program**	**$ 5,642,436**	**$ 5,642,436**	**$ 3,695,677**	**$ -**	**$ 584,588**	**$ -**	**$ 6,021,426**	**$ 6,021,426**	**$ 1,775,934**	**$ -**	**$ 2,948,274**	**$ -**	**$ 5,827,490**	**$ -**	**$ 5,827,490**					
SCE-13-SW-003A	Industrial Energy Advisor Program	$ 762,024	$ 777,024	$ 771,907	$ -	$ -	$ -	$ 415,472	$ 415,472	$ 448,349		$ 347,459		$ 1,336,750	$ -	$ 1,336,750	Core - SW/3P	Industrial	Non Resource	Existing	Energy Advisor
SCE-13-SW-003B	Industrial Calculated Energy Efficiency Program	$ 3,302,271	$ 3,302,271	$ 1,668,675	$ -	$ 584,588	$ -	$ 3,088,584	$ 3,088,584	$ 707,384		$ 1,529,753		$ 1,935,044	$ -	$ 1,935,044	Core - SW	Industrial	Resource	Existing	Calculated Incentive
SCE-13-SW-003C	Industrial Deemed Energy Efficiency Program	$ 1,237,966	$ 1,237,966	$ 1,082,633	$ -	$ -	$ -	$ 1,470,125	$ 1,470,125	$ 412,124		$ 411,144		$ 627,067	$ -	$ 627,067	Core - SW	Industrial	Resource	Existing	Deemed Incentives
SCE-13-SW-003D	Strategic Energy Management Program	$ 340,174	$ 325,174	$ 172,462	$ -	$ -	$ -	$ 1,047,245	$ 1,047,245	$ 208,077		$ 659,917		$ 1,928,629	$ -	$ 1,928,629	Core - SW	Industrial	Resource	Revise	CEI
SCE-13-SW-004	**Statewide Agriculture Energy Efficiency Program**	**$ 4,011,346**	**$ 4,011,346**	**$ 2,691,741**	**$ -**	**$ 187,584**	**$ -**	**$ 4,112,448**	**$ 4,112,448**	**$ 1,176,115**	**$ -**	**$ 1,593,209**	**$ -**	**$ 2,943,042**	**$ -**	**$ 2,943,042**					
SCE-13-SW-004A	Agriculture Energy Advisor Program	$ 2,050,122	$ 2,050,122	$ 1,365,553	$ -	$ -	$ -	$ 1,917,172	$ 1,917,172	$ 710,653		$ 736,898		$ 2,094,016	$ -	$ 2,094,016	Core - SW/3P	Agricultural	Non Resource	Existing	Energy Advisor
SCE-13-SW-004B	Agriculture Calculated Energy Efficiency Program	$ 1,679,036	$ 1,679,036	$ 821,624	$ -	$ 187,584	$ -	$ 1,201,133	$ 1,201,133	$ 315,223		$ 761,735		$ 700,132	$ -	$ 700,132	Core - SW	Agricultural	Resource	Existing	Calculated Incentive
SCE-13-SW-004C	Agriculture Deemed Energy Efficiency Program	$ 213,599	$ 213,599	$ 459,322	$ -	$ -	$ -	$ 994,142	$ 994,142	$ 142,766		$ 93,557		$ 148,894	$ -	$ 148,894	Core - SW	Agricultural	Resource	Existing	Deemed Incentives
SCE-13-SW-004D	Agriculture Continuous Energy Improvement Program	$ 68,589	$ 68,589	$ 45,242	$ -	$ -	$ -	$ -	$ -	$ 7,472		$ 1,020		$ -	$ -	$ -	Core - SW	Agricultural	Non Resource	Discontinue	CEI
SCE-13-SW-005	**Lighting Program**	**$ 56,620,612**	**$ 56,620,612**	**$ 55,032,792**	**$ -**	**$ -**	**$ -**	**$ 34,150,313**	**$ 34,150,313**	**$ 20,725,961**	**$ -**	**$ 20,784,725**	**$ -**	**$ 37,390,809**	**$ -**	**$ 37,390,809**					
SCE-13-SW-005A	Lighting Market Transformation Program	$ 93,803	$ 63,803	$ 49,155	$ -	$ -	$ -	$ 74,804	$ 74,804	$ 31,218		$ 36,882		$ -	$ -	$ -	Core - SW	Residential	Non Resource	Discontinu	Lighting Program
SCE-13-SW-005B	Lighting Innovation Program	$ 474,623	$ 504,623	$ 480,709	$ -	$ -	$ -	$ 141,647	$ 141,647	$ 19,527		$ 79,955		$ -	$ -	$ -	Core - SW	Residential	Resource	Discontinu	Lighting Program
SCE-13-SW-005C	Primary Lighting Program	$ 56,052,186	$ 56,052,186	$ 54,502,928	$ -	$ -	$ -	$ 33,933,862	$ 33,933,862	$ 20,675,216		$ 20,667,888		$ 37,390,809	$ -	$ 37,390,809	Core - SW	Residential	Resource	Existing	Lighting Program
SCE-13-SW-006	**Integrated Demand Side Management Program**	**$ 725,386**	**$ 725,386**	**$ 34,634**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**		Cross-Cutting	Non Resource	Discontinued	
SCE-13-SW-007	**Statewide Finance Program**	**$ 18,651,913**	**$ 18,651,913**	**$ 3,823,273**	**$ -**	**$ 12,735,410**	**$ -**	**$ 2,047,887**	**$ 2,047,887**	**$ 512,623**	**$ -**	**$ 1,685,280**	**$ -**	**$ 2,625,552**	**$ -**	**$ 2,625,552**					
SCE-13-SW-007A	On-Bill Financing	$ 2,285,050	$ 2,285,050	$ 719,736	$ -	$ -	$ -	$ 745,255	$ 745,255	$ 317,937		$ 719,268		$ 656,710	$ -	$ 656,710	Core - SW	Commercial	Resource	Existing	Finance Program
SCE-13-SW-007A1	Finance Revolving Loan	$ 15,200,000	$ 15,200,000	$ 2,464,590	$ -	$ 12,735,410	$ -	$ -	$ -	$ 68,189	$ -	$ -	$ -	$ -	$ -	$ -	Core - SW	Commercial	Non Resource	Existing	Finance Program
SCE-13-SW-007B	ARRA-Originated Financing	$ 646,075	$ 646,075	$ 616,176	$ -	$ -	$ -	$ -	$ -	$ -		$ 577,103		$ -	$ -	$ -	Core - SW	Finance	Resource	Discontinu	Finance Program
SCE-13-SW-007C	New Finance Offerings	$ 520,788	$ 520,788	$ 22,771	$ -	$ -	$ -	$ 1,302,632	$ 1,302,632	$ 126,498		$ 388,909		$ 1,968,842	$ -	$ 1,968,842	Core - SW	Finance	Resource	Existing	Finance Program
SCE-13-SW-008	**Codes and Standards Program**	**$ 6,135,154**	**$ 6,135,154**	**$ 3,203,474**	**$ -**	**$ 1,232,718**	**$ -**	**$ 5,662,538**	**$ 5,662,538**	**$ 1,270,237**	**$ -**	**$ 4,392,301**	**$ -**	**$ 8,939,320**	**$ -**	**$ 8,939,320**					
SCE-13-SW-008A	Building Codes and Compliance Advocacy	$ 1,553,239	$ 1,553,239	$ 684,328	$ -	$ 292,626	$ -	$ 1,556,111	$ 1,556,111	$ 361,874		$ 1,194,236		$ 2,577,006	$ -	$ 2,577,006	Core - SW	C&S	Resource	Existing	Codes and Standards
SCE-13-SW-008B	Appliance Standards Advocacy	$ 1,651,055	$ 1,651,055	$ 482,033	$ -	$ 601,628	$ -	$ 1,209,860	$ 1,209,860	$ 90,803		$ 1,119,057		$ 1,653,535	$ -	$ 1,653,535	Core - SW	C&S	Non Resource	Existing	Codes and Standards
SCE-13-SW-008C	Compliance Improvement	$ 840,728	$ 840,728	$ 931,566	$ -	$ 338,465	$ -	$ 1,451,200	$ 1,451,200	$ 558,642		$ 892,559		$ 1,372,386	$ -	$ 1,372,386	Core - SW	C&S	Non Resource	Existing	Codes and Standards
SCE-13-SW-008D	Reach Codes	$ 511,347	$ 511,347	$ 287,386	$ -	$ -	$ -	$ 404,531	$ 404,531	$ 95,348		$ 309,183		$ 498,047	$ -	$ 498,047	Core - SW	C&S	Non Resource	Existing	Codes and Standards
SCE-13-SW-008E	Planning and Coordination	$ 1,578,785	$ 1,578,785	$ 818,159	$ -	$ -	$ -	$ 1,040,835	$ 1,040,835	$ 163,570		$ 877,266		$ 2,281,310	$ -	$ 2,281,310	Core - SW	C&S	Non Resource	Existing	Codes and Standards
SCE-13-SW-008F	National and International Standards	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -		$ -		$ 557,037	$ -	$ 557,037		C&S	Non Resource	New	Codes and Standards
SCE-13-SW-009	**Emerging Technologies Program**	**$ 9,827,862**	**$ 9,827,862**	**$ 4,383,279**	**$ -**	**$ 4,856,727**	**$ -**	**$ 5,638,909**	**$ 5,638,909**	**$ 2,033,978**	**$ -**	**$ 6,217,359**	**$ -**	**$ 10,579,964**	**$ -**	**$ 6,725,302**					
SCE-13-SW-009A	Technology Development Support	$ 855,771	$ 855,771	$ 1,096,638	$ -	$ 4,856,727	$ -	$ 603,938	$ 603,938	$ 439,321		$ 665,891		$ 1,210,738	$ -	$ 1,210,738	Core - SW	Emerging Tech	Non Resource	Existing	Emerging Technology Programs
SCE-13-SW-009B	Technology Assessments	$ 4,983,785	$ 4,983,785	$ 1,977,504	$ -	$ -	$ -	$ 2,986,163	$ 2,986,163	$ 986,134		$ 3,292,489		$ 5,514,564	$ -	$ 5,514,564	Core - SW	Emerging Tech	Non Resource	Existing	Emerging Technology Programs
SCE-13-SW-009C	Technology Introduction Support	$ 3,988,305	$ 3,988,305	$ 1,309,137	$ -	$ -	$ -	$ 2,048,808	$ 2,048,808	$ 608,524		$ 2,258,979		$ 3,854,662	$ -		Core - SW	Emerging Tech	Non Resource	Existing	Emerging Technology Programs
SCE-13-SW-010	**Workforce Education & Training**	**$ 7,010,307**	**$ 7,010,307**	**$ 7,060,487**	**$ -**	**$ -**	**$ -**	**$ 6,020,788**	**$ 6,020,788**	**$ 3,100,626**	**$ -**	**$ 4,335,704**	**$ -**	**$ 5,571,814**	**$ -**	**$ 5,571,814**					
SCE-13-SW-010A	WE&T Centergies	$ 4,985,520	$ 4,985,520	$ 5,151,851	$ -	$ -	$ -	$ 5,525,252	$ 5,525,252	$ 2,403,682		$ 3,121,570		$ 4,440,051	$ -	$ 4,440,051	Core - SW	WE&T	Non Resource	Existing	WE&T Program
SCE-13-SW-010B	WE&T Connections	$ 2,024,787	$ 2,023,787	$ 1,739,031	$ -	$ -	$ -	$ 495,536	$ 495,536	$ 696,944		$ 1,214,134		$ 1,131,763	$ -	$ 1,131,763	Core - SW/3P	WE&T	Non Resource	Existing	WE&T Program
SCE-13-SW-010C	WE&T Planning	$ -	$ 1,000	$ 169,605	$ -	$ -	$ -	$ -	$ -	$ -		$ -		$ -	$ -	$ -	Core - SW	WE&T	Non Resource	Discontinu	WE&T Program
SCE-13-L-001	**Integrated Demand Side Management Pilot for Food Processing**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ 76,149**	**$ -**	**$ (76,149)**	**$ -**	**$ -**	**$ -**	**$ -**		Cross-Cutting	Non Resource	Discontinued	
SCE-13-L-002	**Energy Leader Partnership Program**	**$ 13,829,652**	**$ 15,529,652**	**$ 14,798,000**	**$ -**	**$ 743,862**	**$ -**	**$ 15,461,281**	**$ 15,461,281**	**$ 4,557,596**	**$ -**	**$ 12,144,160**	**$ -**	**$ 18,364,739**	**$ -**	**$ 18,364,739**					
SCE-13-L-002Rollup	Energy Leader Partnership Program	$ 1,054,726	$ 894,526	$ 224,308	$ -	$ -	$ -	$ 22,048	$ 22,048	$ 11,386		$ 6,397		$ -	$ -	$ -	Govt Partnerships	Public	Resource	Discontinu	Government Partnerships
SCE-13-L-002A	City of Beaumont Energy Leader Partnership	$ -	$ 200	$ 141	$ -	$ -	$ -	$ -	$ -	$ -		$ -		$ -	$ -	$ -	Govt Partnerships	Public	Resource	Discontinu	Government Partnerships
SCE-13-L-002B	City of Long Beach Energy Leader Partnership	$ 1,389,202	$ 889,202	$ 527,410	$ -	$ 3,338	$ -	$ 269,916	$ 269,916	$ 59,612		$ 353,131		$ 308,202	$ -	$ 308,202	Govt Partnerships	Public	Resource	Existing	Government Partnerships
SCE-13-L-002C	City of Redlands Energy Leader Partnership	$ 221,128	$ 221,128	$ 19,825	$ -	$ -	$ -	$ 9	$ 9	$ -		$ 2		$ -	$ -	$ -	Govt Partnerships	Public	Resource	Discontinu	Government Partnerships
SCE-13-L-002D	City of Santa Ana Energy Leader Partnership	$ 162,159	$ 162,159	$ 19,090	$ -	$ -	$ -	$ 19	$ 19	$ -		$ 5		$ -	$ -	$ -	Govt Partnerships	Public	Resource	Discontinu	Government Partnerships
SCE-13-L-002E	City of Simi Valley Energy Leader Partnership	$ -	$ -	$ 504	$ -	$ -	$ -	$ -	$ -	$ -		$ -		$ -	$ -	$ -	Govt Partnerships	Public	Resource	Discontinu	Government Partnerships
SCE-13-L-002F	Gateway Cities Energy Leader Partnership	$ 1,269,270	$ 1,269,270	$ 437,622	$ -	$ 59,799	$ -	$ 503,778	$ 503,778	$ 70,091		$ 395,126		$ 886,097	$ -	$ 886,097	Govt Partnerships	Public	Resource	Existing	Government Partnerships
SCE-13-L-002G	Community Energy Leader Partnership	$ 880,173	$ 880,173	$ 417,372	$ -	$ -	$ -	$ 102	$ 102	$ -		$ 26		$ -	$ -	$ -	Govt Partnerships	Public	Resource	Discontinu	Government Partnerships
SCE-13-L-002H	Eastern Sierra Energy Leader Partnership	$ 86,156	$ 96,156	$ 126,006	$ -	$ -	$ -	$ 110,205	$ 110,205	$ 46,209		$ 57,541		$ 73,664	$ -	$ 73,664	Govt Partnerships	Public	Resource	Existing	Government Partnerships
SCE-13-L-002I	Energy Leader Partnership Strategic Support	$ 468,736	$ 368,736	$ 409,001	$ -	$ -	$ -	$ 418,761	$ 418,761	$ 81,207		$ 437,446		$ 488,537	$ -	$ 488,537	Govt Partnerships	Public	Non Resource	Existing	Government Partnerships
SCE-13-L-002J	Desert Cities Energy Leader Partnership	$ 200,019	$ 215,019	$ 214,945	$ -	$ -	$ -	$ 175,252	$ 175,252	$ 40,875		$ 55,100		$ 147,804	$ -	$ 147,804	Govt Partnerships	Public	Resource	Existing	Government Partnerships
SCE-13-L-002K	Kern County Energy Leader Partnership	$ 123,216	$ 123,216	$ 87,806	$ -	$ -	$ -	$ 169,555	$ 169,555	$ 26,149		$ 86,202		$ 84,493	$ -	$ 84,493	Govt Partnerships	Public	Resource	Existing	Government Partnerships
SCE-13-L-002L	Orange County Cities Energy Leader Partnership	$ 2,152,439	$ 2,442,439	$ 1,764,437	$ -	$ 182,277	$ -	$ 771,653	$ 771,653	$ 512,587		$ 770,918		$ 2,870,565	$ -	$ 2,870,565	Govt Partnerships	Public	Resource	Existing	Government Partnerships
SCE-13-L-002M	San Gabriel Valley Energy Leader Partnership	$ 858,304	$ 608,304	$ 1,459,473	$ -	$ -	$ -	$ 1,352,682	$ 1,352,682	$ 483,435		$ 813,883		$ 843,971	$ -	$ 843,971	Govt Partnerships	Public	Resource	Existing	Government Partnerships
SCE-13-L-002N	San Joaquin Valley Energy Leader Partnership	$ 419,803	$ 339,803	$ 315,312	$ -	$ 5,079	$ -	$ 1,770,858	$ 1,770,858	$ 91,348		$ 1,525,390		$ 384,760	$ -	$ 384,760	Govt Partnerships	Public	Resource	Existing	Government Partnerships
SCE-13-L-002O	South Bay Energy Leader Partnership	$ 717,549	$ 1,167,549	$ 1,763,891	$ -	$ 49,534	$ -	$ 2,117,495	$ 2,117,495	$ 204,462		$ 2,037,547		$ 450,646	$ -	$ 450,646	Govt Partnerships	Public	Resource	Existing	Government Partnerships
SCE-13-L-002P	South Santa Barbara County Energy Leader Partnership	$ 324,874	$ 554,874	$ 452,894	$ -	$ 11,434	$ -	$ 447,151	$ 447,151	$ 65,224		$ 358,036		$ 157,679	$ -	$ 157,679	Govt Partnerships	Public	Resource	Existing	Government Partnerships
SCE-13-L-002Q	Ventura County Energy Leader Partnership	$ 509,945	$ 739,945	$ 768,999	$ -	$ 245,546	$ -	$ 400,359	$ 400,359	$ 130,328		$ 467,923		$ 1,729,286	$ -	$ 1,729,286	Govt Partnerships	Public	Resource	Existing	Government Partnerships
SCE-13-L-002R	Western Riverside Energy Leader Partnership	$ 203,997	$ 1,143,997	$ 1,267,420	$ -	$ -	$ -	$ 728,629	$ 728,629	$ 73,760		$ 742,729		$ 4,380,210	$ -	$ 4,380,210	Govt Partnerships	Public	Resource	Existing	Government Partnerships
SCE-13-L-002S	High Desert Regional Energy Leader Partnership	$ 96,625	$ 286,625	$ 221,803	$ -	$ 36,038	$ -	$ 518,492	$ 518,492	$ 98,760		$ 285,366		$ 152,135	$ -	$ 152,135	Govt Partnerships	Public	Resource	Existing	Government Partnerships
SCE-13-L-002T	West Side Community Energy Leader Partnership	$ 170,404	$ 290,404	$ 539,331	$ -	$ 87,938	$ -	$ 482,028	$ 482,028	$ 212,318		$ 369,995		$ 2,691,891	$ -	$ 2,691,891	Govt Partnerships	Public	Resource	Existing	Government Partnerships
SCE-13-L-002U	Local Government Strategic Planning Pilot Program	$ 1,076,349	$ 826,349	$ 248,275	$ -	$ -	$ -	$ 811,359	$ 811,359	$ 138,665		$ 739,789		$ 325,591	$ -	$ 325,591	Govt Partnerships	Public	Non Resource	Existing	Government Partnerships
SCE-13-L-002V	North Orange County Cities	$ 157,558	$ 277,558	$ 1,151,593	$ -	$ 3,727	$ -	$ 1,052,874	$ 1,052,874	$ 135,123		$ 679,890		$ 197,639	$ -	$ 197,639	Govt Partnerships	Public	Resource	Existing	Government Partnerships
SCE-13-L-002W	San Bernardino Association of Governments	$ 147,386	$ 992,386	$ 1,764,963	$ -	$ 3,554	$ -	$ 1,729,393	$ 1,729,393	$ 1,872,988		$ 825,405		$ 1,735,578	$ -	$ 1,735,578	Govt Partnerships	Public	Resource	Existing	Government Partnerships
SCE-13-L-002X	Water Energy Nexus Program	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -		$ -		$ -	$ -	$ -	Govt Partnerships	Public		Discontinu	Government Partnerships
SCE-13-L-003C	County of Los Angeles Energy Efficiency Partnership	$ 646,861	$ 446,861	$ 418,460	$ -	$ 55,598	$ -	$ 267,893	$ 267,893	$ 91,581		$ 274,592		$ 208,148	$ -	$ 208,148	Govt Partnerships	Public	Resource	Existing	Government Partnerships
SCE-13-L-003D	County of Riverside Energy Efficiency Partnership	$ 144,832	$ 144,832	$ 77,339	$ -	$ -	$ -	$ 813,898	$ 813,898	$ 38,970		$ 794,493		$ 78,002	$ -	$ 78,002	Govt Partnerships	Public	Resource	Existing	Government Partnerships
SCE-13-L-003E	County of San Bernardino Energy Efficiency Partnership	$ 347,940	$ 147,940	$ 99,780	$ -	$ -	$ -	$ 526,872	$ 526,872	$ 72,520		$ 67,231		$ 169,841	$ -	$ 169,841	Govt Partnerships	Public	Resource	Existing	Government Partnerships
SCE-13-L-003	**Institutional and Government Core Energy Efficiency Partnershi**	**$ 7,546,685**	**$ 5,846,685**	**$ 3,322,395**	**$ -**	**$ 1,604,339**	**$ -**	**$ 4,864,070**	**$ 4,864,070**	**$ 897,395**	**$ -**	**$ 3,631,464**	**$ -**	**$ 2,815,798**	**$ -**	**$ 2,815,798**					
SCE-13-L-003A	California Community Colleges Energy Efficiency Partnership	$ 2,544,217	$ 2,244,217	$ 1,035,095	$ -	$ 853,353	$ -	$ 1,331,446	$ 1,331,446	$ 319,164		$ 1,729,531		$ 812,533	$ -	$ 812,533	Govt Partnerships	Public	Resource	Existing	Government Partnerships
SCE-13-L-003B	California Dept. of Corrections and Rehabilitation EE Partnership	$ 1,041,388	$ 641,388	$ 217,104	$ -	$ -	$ -	$ 658,892	$ 658,892	$ 91,971		$ 368,735		$ 705,182	$ -	$ 705,182	Govt Partnerships	Public	Resource	Existing	Government Partnerships
SCE-13-L-003F	State of California Energy Efficiency Partnership	$ 1,199,182	$ 799,182	$ 719,143	$ -	$ 45,400	$ -	$ 650,612	$ 650,612	$ 97,732		$ 245,128		$ 199,843	$ -	$ 199,843	Govt Partnerships	Public	Resource	Existing	Government Partnerships
SCE-13-L-003G	UC/CSU Energy Efficiency Partnership	$ 2,761,898	$ 2,161,898	$ 1,351,052	$ -	$ 705,586	$ -	$ 1,717,087	$ 1,717,087	$ 346,595		$ 1,188,411		$ 562,602	$ -	$ 562,602	Govt Partnerships	Public	Resource	Existing	Government Partnerships
SCE-13-L-003H	Federals Energy Efficiency Partnership	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -		$ -		$ -	$ -	$ -	Govt Partnerships	Public	Resource	Discontinu	Government Partnerships
SCE-13-L-003I	Public Sector Performance-Based Retrofit High Opportunity Progra	$ -	$ -	$ -	$ -	$ -	$ -	$ 506,033	$ 506,033	$ 41,933		$ 99,659		$ 535,638	$ -	$ 535,638	Govt Partnerships	Public	Resource	New	Government Partnerships
	Residential Third Party Programs	**$ 4,750,328**	**$ 6,010,328**	**$ 5,664,530**	**$ -**	**$ 1,185,983**	**$ -**	**$ 6,112,828**	**$ 6,112,828**	**$ 1,306,781**	**$ -**	**$ 2,218,854**	**$ -**	**$ 8,532,298**	**$ -**	**$ 8,532,298**					
SCE-13-TP-001	Comprehensive Manufactured Homes	$ 4,750,328	$ 6,010,328	$ 5,664,530	$ -	$ 1,185,983	$ -	$ 5,212,828	$ 5,212,828	$ 1,306,781		$ 1,318,854		$ 5,624,032	$ -	$ 5,624,032	3P	Residential	Resource	Existing	Residential 3P Programs
SCE-13-TP-024	AB793 Residential Pay for Performance		$ -	$ -	$ -	$ -	$ -	$ 900,000	$ 900,000	$ -		$ 900,000		$ 790,154	$ -	$ 790,154	3P	Residential	Resource	New	Residential 3P Programs
SCE-13-TP-026	Residential 3P Solicitation	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ 2,118,111	$ -	$ 2,118,111	3P	Residential	Non Resource	New	Residential 3P Programs
	Commercial Third Party Programs	**$ 10,377,574**	**$ 10,857,574**	**$ 3,295,108**	**$ -**	**$ 2,071,180**	**$ -**	**$ 6,570,918**	**$ 6,570,918**	**$ 1,891,940**	**$ -**	**$ 3,259,026**	**$ -**	**$ 9,511,694**	**$ -**	**$ 9,511,694**					
SCE-13-TP-002	Cool Planet	$ 105,759	$ 135,759	$ 126,972	$ -	$ -	$ -	$ 178,175	$ 178,175	$ 43,884		$ 137,434		$ -	$ -	$ -	3P	Cancelled	Non Resource	Discontinu	Commercial 3P Programs
SCE-13-TP-003	Healthcare EE Program	$ 2,447,965	$ 2,447,965	$ 354,961	$ -	$ 970,555	$ -	$ 1,495,081	$ 1,495,081	$ 90,121		$ 683,289		$ 1,686,499	$ -	$ 1,686,499	3P	Commercial	Resource	Existing	Commercial 3P Programs
SCE-13-TP-004	Data Center Energy Efficiency	$ 947,647	$ 947,647	$ 125,122	$ -	$ 29,574	$ -	$ 472,142	$ 472,142	$ 49,875		$ 148,310		$ 515,965	$ -	$ 515,965	3P	Commercial	Resource	Existing	Commercial 3P Programs
SCE-13-TP-005	Lodging EE Program	$ 1,183,595	$ 1,183,595	$ 199,382	$ -	$ 397,747	$ -	$ 1,158,898	$ 1,158,898	$ 66,208		$ 148,215		$ 558,365	$ -	$ 558,365	3P	Commercial	Resource	Existing	Commercial 3P Programs
SCE-13-TP-013	Cool Schools	$ 493,854	$ 493,854	$ 28,518	$ -	$ -	$ -	$ 154,339	$ 154,339	$ 15,628		$ 149,675		$ -	$ -	$ -	3P	Cancelled	Resource	Discontinu	Commercial 3P Programs
SCE-13-TP-014	Commercial Utility Building Efficiency	$ 493,854	$ 493,854	$ 58,145	$ -	$ -	$ -	$ 29,079	$ 29,079	$ 9,839		$ 21,444		$ -	$ -	$ -	3P	Commercial	Resource	Discontinu	Commercial 3P Programs
SCE-13-TP-017	Energy Efficiency for Entertainment Centers	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -		$ -		$ -	$ -	$ -	3P	Commercial	Resource	Discontinu	Commercial 3P Programs
SCE-13-TP-018	School Energy Efficiency Program	$ 3,195,641	$ 3,645,641	$ 2,239,969	$ -	$ 197,997	$ -	$ 2,215,552	$ 2,215,552	$ 1,562,053		$ 1,465,299		$ 2,160,595	$ -	$ 2,160,595	3P	Public	Resource	Existing	Commercial 3P Programs
SCE-13-TP-021	Enhanced Retrocommissioning	$ 1,509,260	$ 1,509,260	$ 162,039	$ -	$ 475,307	$ -	$ 867,653	$ 867,653	$ 54,332		$ 505,360		$ 2,103,295	$ -	$ 2,103,295	3P	Commercial	Resource	Existing	Commercial 3P Programs
SCE-13-TP-027	Commercial 3P Solicitation	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ 2,129,290	$ -	$ 2,129,290	3P	Commercial	Non Resource	New	Commercial 3P Programs
SCE-13-TP-025	Facility Assessment Program	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ 357,685	$ -	$ 357,685	3P	Commercial	Non Resource	New	Commercial 3P Programs
	Industrial Third Party Programs	**$ 22,273,758**	**$ 22,273,758**	**$ 3,798,812**	**$ -**	**$ 2,218,322**	**$ -**	**$ 17,422,075**	**$ 17,422,075**	**$ 1,099,332**	**$ -**	**$ 9,307,715**	**$ -**	**$ 14,525,332**	**$ -**	**$ 14,525,332**					
SCE-13-TP-006	Food & Kindred Products	$ 3,492,256	$ 3,492,256	$ 949,714	$ -	$ 67,437	$ -	$ 2,598,005	$ 2,598,005	$ 228,868		$ 1,345,842		$ 2,974,199	$ -	$ 2,974,199	3P	Industrial	Resource	Existing	Industrial 3P Programs
SCE-13-TP-007	Primary and Fabricated Metals	$ 6,607,008	$ 6,607,008	$ 983,219	$ -	$ 1,077,655	$ -	$ 4,730,172	$ 4,730,172	$ 358,686		$ 3,393,139		$ 3,003,914	$ -	$ 3,003,914	3P	Industrial	Resource	Existing	Industrial 3P Programs
SCE-13-TP-008	Nonmetallic Minerals and Products	$ 5,272,853	$ 5,272,853	$ 572,824	$ -	$ 6,669	$ -	$ 3,943,336	$ 3,943,336	$ 175,839		$ 1,260,820		$ 4,361,405	$ -	$ 4,361,405	3P	Industrial	Resource	Existing	Industrial 3P Programs
SCE-13-TP-009	Comprehensive Chemical Products	$ 2,276,581	$ 2,276,581	$ 489,725	$ -	$ 717,255	$ -	$ 3,759,220	$ 3,759,220	$ 184,170		$ 1,959,508		$ 696,816	$ -	$ 696,816	3P	Industrial	Resource	Existing	Industrial 3P Programs
SCE-13-TP-010	Comprehensive Petroleum Refining	$ 1,985,196	$ 1,985,196	$ 292,278	$ -	$ 133,318	$ -	$ 1,232,158	$ 1,232,158	$ 69,396		$ 963,307		$ 732,285	$ -	$ 732,285	3P	Industrial	Resource	Existing	Industrial 3P Programs
SCE-13-TP-011	Oil Production	$ 1,136,253	$ 1,136,253	$ 187,841	$ -	$ -	$ -	$ 788,282	$ 788,282	$ 63,967		$ 256,811		$ 358,016	$ -	$ 358,016	3P	Industrial	Resource	Existing	Industrial 3P Programs
SCE-13-TP-012	Refinery Energy Efficiency Program	$ -	$ -	$ -	$ -	$ -	$ -	$ 185	$ 185	$ -		$ 46		$ -	$ -	$ -	3P	Industrial	Resource	Discontinu	Commercial 3P Programs
SCE-13-TP-023	Midsize Industrial Customer Program	$ 1,503,613	$ 1,503,613	$ 323,209	$ -	$ 215,988	$ -	$ 370,717	$ 370,717	$ 18,406		$ 128,241		$ 269,406	$ -	$ 269,406	3P	Industrial	Resource	Existing	Industrial 3P Programs
SCE-13-TP-028	Industrial 3P Solicitation	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ 2,129,290	$ -	$ 2,129,290	3P	Industrial	Non Resource	New	Industrial 3P Programs
	Cross Cutting Third Party Programs	**$ 5,071,526**	**$ 4,591,526**	**$ 717,823**	**$ -**	**$ 1,622,171**	**$ -**	**$ 1,176,041**	**$ 1,176,041**	**$ 288,024**	**$ -**	**$ 2,119,526**	**$ -**	**$ 874,616**	**$ -**	**$ 874,616**					
SCE-13-TP-019	Sustainable Communities	$ 1,099,770	$ 1,099,770	$ 98,905	$ -	$ -	$ -	$ 1,507	$ 1,507	$ 14,016		$ 2,366		$ -	$ -	$ -	3P	Residential	Non Resource	Discontinu	New Construction
SCE-13-TP-020	IDEEA365 Program	$ 2,244,572	$ 1,394,572	$ 143,799	$ -	$ -	$ -	$ 742,031	$ 742,031	$ 113,267		$ 69,100		$ -	$ -	$ -	3P	Commercial	Resource	Discontinu	Commercial/Industrial/Agricultural 3P Programs
SCE-13-TP-022	Water Infrastructure Systems Energy Efficiency Program	$ 1,727,185	$ 2,097,185	$ 475,118	$ -	$ 1,622,171	$ -	$ 432,503	$ 432,503	$ 160,741		$ 2,048,061		$ 494,760	$ -	$ 494,760	3P	Public	Resource	Existing	Commercial/Industrial/Agricultural 3P Programs
SCE-13-TP-029	Local Government 3P Solicitation	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ 379,856		$ 379,856	3P	Public	Non Resource	New	Government Partnerships
		$ -	$ -	$ -	$ -	$ -	$ -														
	PA Sub-Total	**$ 302,725,000**	**$ 302,725,000**	**$ 209,921,838**	**$ -**	**$ 33,950,322**	**$ 60,401,347**	**$ 222,643,088**	**$ 222,643,088**	**$ 73,957,021**	**$ -**	**$ 147,081,750**	**$ 1,672,495**	**$ 220,177,973**	**$ 1,672,495**	**$ 218,505,478**					
	EM&V (PA & CPUC Portions) Total	**$ 13,333,000**	**$ 13,333,000**	**$ 1,306,225**	**$ -**	**$ 12,026,775**	**$ -**	**$ 10,011,570**	**$ 10,011,570**	**$ 543,870**	**$ -**	**$ 9,467,701**	**$ -**	**$ 9,995,849**	**$ -**	**$ 9,995,849**					
SCE-3OV0100	EM&V - SCE	$ 5,333,200	$ 5,333,200	$ 971,840	$ -	$ 4,361,360	$ -	$ 4,004,628	$ 4,004,628	$ 409,268		$ 3,595,360		$ 3,998,339	$ -	$ 3,998,339	EM&V	EM&V	Non Resource	Existing	EM&V
SCE-3OV0200	EM&V - CPUC	$ 7,999,800	$ 7,999,800	$ 334,385	$ -	$ 7,665,415	$ -	$ 6,006,942	$ 6,006,942	$ 134,602		$ 5,872,341		$ 5,997,509	$ -	$ 5,997,509	EM&V	EM&V	Non Resource	Existing	EM&V
	Total SCE Portfolio	**$ 316,058,000**	**$ 316,058,000**	**$ 211,228,063**	**$ -**	**$ 45,977,097**	**$ 60,401,347**	**$ 232,654,659**	**$ 232,654,659**	**$ 74,500,890**	**$ -**	**$ 156,549,451**	**$ 1,672,495**	**$ 230,173,822**	**$ 1,672,495**	**$ 228,501,327**					
	Lancaster Choice Energy	$ -	$ -	$ -	$ -	$ -	$ -	$ 372,341	$ 372,341	$ 372,341	$ -	$ -	$ -	$ 401,318	$ -	$ 401,318	REN/CCA	CCA	CCA	Existing	REN/CCA
	3CREN	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ 2,051,754	$ -	$ 2,051,754	REN/CCA	REN	REN	New	REN/CCA
	SoCalREN	$ 17,262,000	$ 17,262,000	$ 14,743,768	$ -	$ 2,518,232	$ -	$ 15,536,447	$ 15,536,447	$ 5,278,078	$ -	$ 10,258,369	$ 3,496,825	$ 17,269,325	$ 3,496,825	$ 13,772,500	REN/CCA	REN	REN	Existing	REN/CCA
	Total EE Portfolio	**$ 333,320,000**	**$ 333,320,000**	**$ 225,971,831**	**$ -**	**$ 48,495,329**	**$ 60,401,347**	**$ 248,563,447**	**$ 248,563,447**	**$ 80,151,309**	**$ -**	**$ 166,807,820**	**$ 5,169,320**	**$ 249,896,218**	**$ 5,169,320**	**$ 244,726,898**					

[1] D. 12-11-015 and D. 15-01-002
[2] Advice Letter 3465-E-B approved to return $21,051,000 2013-2015 unspent/uncommitted fund to offset revenue for 2017 Energy Efficiency program
[3] Assumed the same authorized budget level as 2015, D. 15-01-002
[4] Advice Letter 3577-E to shift fund from Commercial Energy Advisor Program and Commercial Deemed Incentive Program to Primary Lighting Program

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

Category (2013-17 Authorized [1] and 2018 Authorized [2])	Electric Demand Response Funds	Electric Energy Efficiency Funds	Natural Gas Public Purpose Funds	Total Energy Efficiency Funds
2013-2015 Annualized Program Funds - Utility	$ 11,746	$ 310,823		$ 322,569
2013-2015 Annualized Program Funds - REN		$ 17,687		$ 17,687
2013-2015 Annualized Program Funds - CCA				$ -
2013-2015 Annualized EM&V		$ 13,999		$ 13,999
2013-2015 Total Annualized Portfolio	$ 11,746	$ 342,510	$ -	$ 354,256
2016 Program Funds - Utility	$ 11,746	$ 302,673		$ 314,419
2016 Program Funds - REN		$ 17,314		$ 17,314
2016 Program Funds - CCA				$ -
2016 EM&V		$ 13,333		$ 13,333
2016 Annualized Total	$ 11,746	$ 333,320	$ -	$ 345,066
2017 Program Funds - Utility	$ 10,137	$ 302,725		$ 312,862
2017 Program Funds - REN		$ 17,262		$ 17,262
2017 Program Funds - CCA				$ -
2017 EM&V		$ 13,333		$ 13,333
2017 Annualized Total	Portfolio Budget	$ 333,320	$ -	$ 343,457
2018 Program Funds - Utility	$ 8,780	$ 222,643		$ 231,423
2018 Program Funds - REN		$ 15,536		$ 15,536
2018 Program Funds - CCA		$ -		$ -
2018 Program Funds - LCE		$ 372		$ 372
2018 EM&V		$ 10,012		$ 10,012
2018 Annualized Total	$ 8,780	$ 248,563	$ -	$ 257,343
2019 Requested Program Funds - Utility	$ 9,360	$ 220,178	$ -	$ 229,538
2019 Requested Program Funds - SCalREN	$ -	$ 17,269	$ -	$ 17,269
2019 Requested Program Funds - 3CREN	$ -	$ 2,052	$ -	$ 2,052
2019 Requested Program Funds - LCE	$ -	$ 401	$ -	$ 401
2019 Requested Funds -ScalREN EM&V	$ -	$ 288	$ -	$ 288
2019 Requested Funds - 3CREN EM&V	$ -	$ 34	$ -	$ 34
2020 Requested Funds - LCE EM&V	$ -	$ 7	$ -	$ 7
2021 Requested Funds - PA EM&V	$ -	$ 3,670	$ -	$ 3,670
2019 Requested Funds -CPUC EM&V	$ -	$ 5,998	$ -	$ 5,998
2019 Total Portfolio Request	Portfolio Budget	$ 249,896	$ -	$ 259,256

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

[2] 2018 Authorized ABAL Budget, D, 18-05-041

Table 6 - Accrued Energy Efficiency Program Funding Not Yet Spent [1]

Accrued funds not yet spent ($000). Category	Electric Procurement Funds	Natural Gas Public Purpose Funds	Total
2013-2015 EM&V Funds	$3,954	$0	$3,954
2013-2015 Program Funds - Utility	$19,666	$0	$19,666
2013-2015 Program Funds - REN	$2,191	$0	$2,191
2013-2015 Program Funds - CCA	$0	$0	$0
2016 EM&V Funds	$12,555	$0	$12,555
2016 Program Funds - Utility	$11,634	$0	$11,634
2016 Program Funds - REN	$1,854	$0	$1,854
2016 Program Funds - CCA	$0	$0	$0
2017 EM&V Funds	$12,027	$0	$12,027
2017 Program Funds - Utility	$21,215	$0	$21,215
2017 Program Funds - REN	$2,518	$0	$2,518
2017 Program Funds - CCA	$0	$0	$0
2018 to date EM&V Funds [2]	$9,468	$0	$9,468
2018 to date Program Funds - Utility [2]	$147,082	$0	$147,082
2018 to date Program Funds - REN [2]	$6,762	$0	$6,762
2018 to date Program Funds - LCE [2]	$0	$0	$0
2018 to date Program Funds - CCA [2]	$0	$0	$0
Total	**$250,924**	**$0**	**$250,924**

[1] As of June 30, 2018

[2] July to December 2018 forecast to spend and commitments

Table 7 - 2018 Authorized and Spent/Unspent Detail

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	$ 238,552	$0	$238,552
2018 Actual Spent [1]	$ 79,539	$0	$79,539
2018 Unspent			
2018 Committed funds [2]	$ 153,843	$0	$153,843
2018 Unspent/uncommitted - estimated available for 2019 [3]	$ 5,169	$0	$5,169

[1] Actual spent through June 30, 2018
[2] July to December 2018 forecast to spend and commitments
[3] Included REN PY 2018 unspent/uncommitted fund, $3,496,826

2018	Budget	Spent	July to December Forecast to spend	Remaining
SCE	$ 222,643,089	$ 73,888,832	$ 147,081,762	$ 1,672,495
EM&V	$ 10,011,570	$ 543,870	$ 9,467,700	$ -
REN	$ 15,536,447	$ 5,278,078	$ 6,761,543	$ 3,496,826
LCE	$ 372,341	$ 372,341	$ -	$ -
Total	$ 248,563,447	$ 80,083,121	$ 163,311,005	$ 5,169,321
Excludes EM&V	$ 238,551,877	$ 79,539,251	$ 153,843,305	$ 5,169,321

Attachment D
Sector Level Metrics

Southern California Edison - Energy Efficiency Sector Metrics with Targets

Attachment D

Southern California Edison - Energy Efficiency Sector Metrics with Targets

Attachment D - Table of Contents

Energy Division Template

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	Baseline Number	2017 Number	Short Term Target 2018	Short Term Target 2019	Short Term Target 2020	Mid Term Target (2021-2023)	Long Term Target (2024-2025)	Methodology	Key Definitions	Proxy Explanation
0	SCE	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	252,978	236,390	225,780	242,217	256,867	259,357	279,198	Per CEDARS	None	
1	SCE	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	133,323	128,562	164,636	180,486	195,043	196,384	210,824	Per CEDARS	None	
2	SCE	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	95,286	91,077	118,106	129,584	140,139	141,105	151,482	Per CEDARS	None	
3	SCE	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	694,435,222	655,559,016	679,050,055	723,567,464	761,852,925	762,209,814	815,138,762	Per CEDARS	None	
4	SCE	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	508,866,337	469,994,945	491,066,876	524,233,442	552,920,433	553,130,110	591,502,146	Per CEDARS	None	
5	SCE	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	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	None	
6	SCE	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	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	None	
7	SCE	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	1,175,407	1,047,642	1,428,181	1,554,179	1,668,548	1,679,872	1,803,242	Per CEDARS	None	
8	SCE	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	805,064	757,231	959,022	1,042,539	1,118,331	1,126,459	1,209,758	Per CEDARS	None	
9	SCE	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	6,247,467,909	6,259,048,399	6,401,370,654	6,778,964,111	7,096,644,950	7,102,208,001	7,597,124,947	Per CEDARS	None	
10	SCE	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	4,285,849,360	4,542,428,022	4,417,936,739	4,673,429,665	4,887,566,448	4,893,046,437	5,235,291,292	Per CEDARS	None	
11	SCE	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	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	None	
12	SCE	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	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	None	
13	SCE	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	86,933	87,207	107,351	117,686	127,178	128,052	137,468	Data pull from PA databases	D.18-05-041: DAC = Service accounts in zip codes corresponding to census tracts in the top quartile of CalEnviroScreen 3.0 scores.	
14	SCE	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	63,922	61,472	79,231	86,931	94,011	94,659	101,621	Data pull from PA databases	D.18-05-041: DAC = Service accounts in zip codes corresponding to census tracts in the top quartile of CalEnviroScreen 3.0 scores.	
15	SCE	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	459,918,544	453,777,237	449,729,078	479,212,580	504,568,715	504,805,080	539,859,472	Data pull from PA databases	D.18-05-041: DAC = Service accounts in zip codes corresponding to census tracts in the top quartile of CalEnviroScreen 3.0 scores.	
16	SCE	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	345,873,831	326,357,761	333,775,629	356,318,773	375,817,174	375,959,690	402,040,965	Data pull from PA databases	D.18-05-041: DAC = Service accounts in zip codes corresponding to census tracts in the top quartile of CalEnviroScreen 3.0 scores.	
17	SCE	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	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	D.18-05-041: DAC = Service accounts in zip codes corresponding to census tracts in the top quartile of CalEnviroScreen 3.0 scores.	
18	SCE	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	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	D.18-05-041: DAC = Service accounts in zip codes corresponding to census tracts in the top quartile of CalEnviroScreen 3.0 scores.	
19	SCE	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	751,134	689,117	912,667	993,185	1,066,272	1,073,508	1,152,346	Data pull from PA databases	D.18-05-041: DAC = Service accounts in zip codes corresponding to census tracts in the top quartile of CalEnviroScreen 3.0 scores.	
20	SCE	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	513,001	502,406	611,105	664,324	712,620	717,799	770,879	Data pull from PA databases	D.18-05-041: DAC = Service accounts in zip codes corresponding to census tracts in the top quartile of CalEnviroScreen 3.0 scores.	
21	SCE	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	4,023,262,366	4,199,577,342	4,122,373,099	4,365,536,820	4,570,117,841	4,573,700,351	4,892,418,391	Data pull from PA databases	D.18-05-041: DAC = Service accounts in zip codes corresponding to census tracts in the top quartile of CalEnviroScreen 3.0 scores.	
22	SCE	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	2,774,586,309	3,072,843,659	2,860,097,442	3,025,499,236	3,164,127,763	3,167,675,416	3,389,238,940	Data pull from PA databases	D.18-05-041: DAC = Service accounts in zip codes corresponding to census tracts in the top quartile of CalEnviroScreen 3.0 scores.	
23	SCE	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	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	D.18-05-041: DAC = Service accounts in zip codes corresponding to census tracts in the top quartile of CalEnviroScreen 3.0 scores.	
24	SCE	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	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	D.18-05-041: DAC = Service accounts in zip codes corresponding to census tracts in the top quartile of CalEnviroScreen 3.0 scores.	
25	SCE	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	113,190	132,690	139,775	153,231	165,590	166,728	178,988	Data pull from PA databases; HTR zipcodes from 2014 Athens Research study	D.18-05-041 p. 43 - HTR as defined in Resolution G-3497, modified to "include disadvantaged communities (as designated by CalEPA) in the geographic criteria for hard to reach customers."	
26	SCE	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	613,123	668,688	730,375	793,980	851,702	857,892	921,331	Data pull from PA databases; HTR zipcodes from 2014 Athens Research study	D.18-05-041 p. 43 - HTR as defined in Resolution G-3497, modified to "include disadvantaged communities (as designated by CalEPA) in the geographic criteria for hard to reach customers."	
27	SCE	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	589,112,327	657,708,954	576,060,581	613,826,169	646,304,989	646,607,750	691,509,124	Data pull from PA databases; HTR zipcodes from 2014 Athens Research study	D.18-05-041 p. 43 - HTR as defined in Resolution G-3497, modified to "include disadvantaged communities (as designated by CalEPA) in the geographic criteria for hard to reach customers."	
28	SCE	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	452,344,193	465,588,857	436,521,801	466,004,403	491,504,997	491,691,384	525,801,261	Data pull from PA databases; HTR zipcodes from 2014 Athens Research study	D.18-05-041 p. 43 - HTR as defined in Resolution G-3497, modified to "include disadvantaged communities (as designated by CalEPA) in the geographic criteria for hard to reach customers."	
29	SCE	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	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	D.18-05-041 p. 43 - HTR as defined in Resolution G-3497, modified to "include disadvantaged communities (as designated by CalEPA) in the geographic criteria for hard to reach customers."	
30	SCE	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	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	D.18-05-041 p. 43 - HTR as defined in Resolution G-3497, modified to "include disadvantaged communities (as designated by CalEPA) in the geographic criteria for hard to reach customers."	
31	SCE	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	889,798	916,350	1,081,151	1,176,533	1,263,112	1,271,684	1,365,077	Data pull from PA databases; HTR zipcodes from 2014 Athens Research study	D.18-05-041 p. 43 - HTR as defined in Resolution G-3497, modified to "include disadvantaged communities (as designated by CalEPA) in the geographic criteria for hard to reach customers."	
32	SCE	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	613,123	668,688	730,375	793,980	851,702	857,892	921,331	Data pull from PA databases; HTR zipcodes from 2014 Athens Research study	D.18-05-041 p. 43 - HTR as defined in Resolution G-3497, modified to "include disadvantaged communities (as designated by CalEPA) in the geographic criteria for hard to reach customers."	
33	SCE	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	4,653,473,624	5,574,601,257	4,768,109,246	5,049,362,582	5,285,989,552	5,290,133,233	5,658,775,856	Data pull from PA databases; HTR zipcodes from 2014 Athens Research study	D.18-05-041 p. 43 - HTR as defined in Resolution G-3497, modified to "include disadvantaged communities (as designated by CalEPA) in the geographic criteria for hard to reach customers."	
34	SCE	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	3,238,836,548	4,072,958,779	3,338,655,603	3,531,732,810	3,693,556,985	3,697,698,239	3,956,334,288	Data pull from PA databases; HTR zipcodes from 2014 Athens Research study	D.18-05-041 p. 43 - HTR as defined in Resolution G-3497, modified to "include disadvantaged communities (as designated by CalEPA) in the geographic criteria for hard to reach customers."	
35	SCE	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	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	D.18-05-041 p. 43 - HTR as defined in Resolution G-3497, modified to "include disadvantaged communities (as designated by CalEPA) in the geographic criteria for hard to reach customers."	
36	SCE	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	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	D.18-05-041 p. 43 - HTR as defined in Resolution G-3497, modified to "include disadvantaged communities (as designated by CalEPA) in the geographic criteria for hard to reach customers."	
37	SCE	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	$282,529,425	805,064	$351	$355	$295	$271	$253	$251	$234	Per CEDARS	None	
38	SCE	A02	PL4	LC	PAC Levelized Cost ($/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	$282,529,425	4,285,849,360	$0.07	$0.06	$0.06	$0.06	$0.06	$0.06	$0.05	Per CEDARS	None	
39	SCE	A02	PL4	LC	PAC Levelized Cost ($/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 ($/therm)	Portfolio Level (PL)– All Sectors	2016	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Per CEDARS	None	
40	SCE	A02	PL4	LC	TRC Levelized Cost ($/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	$420,375,326	805,064	$522	$524	$438	$381	$376	$373	$347	Per CEDARS	None	
41	SCE	A02	PL4	LC	TRC Levelized Cost ($/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	$420,375,326	4,285,849,360	$0.098	$0.087	$0.095	$0.085	$0.086	$0.086	$0.08	Per CEDARS	None	
42	SCE	A02	PL4	LC	TRC Levelized Cost ($/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	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Per CEDARS	None	
43	SCE	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	67,811	53,901	88,390	101,567	114,277	115,385	124,212	Per CEDARS	None	
44	SCE	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	49,517	41,082	64,544	74,166	83,448	84,256	90,702	Per CEDARS	None	

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	Baseline Number	2017 Number	Short Term Target 2018	Short Term Target 2019	Short Term Target 2020	Mid Term Target (2021-2023)	Long Term Target (2024-2025)	Methodology	Key Definitions	Proxy Explanation
45	SCE	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	327,238,818	269,083,126	199,125,984	229,349,438	258,542,680	261,048,993	281,019,229	Per CEDARS	None	
46	SCE	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	251,749,378	211,433,999	153,190,391	176,441,715	198,900,483	200,828,624	216,192,005	Per CEDARS	None	
47	SCE	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	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Per CEDARS	None	
48	SCE	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	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Per CEDARS	None	
49	SCE	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	511,414	550,346	666,621	765,994	861,857	870,211	936,782	Per CEDARS	None	
50	SCE	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	336,304	415,539	438,367	503,714	566,753	572,247	616,024	Per CEDARS	None	
51	SCE	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	2,500,572,493	3,147,485,796	1,521,607,249	1,752,557,656	1,975,635,771	1,994,787,584	2,147,388,747	Per CEDARS	None	
52	SCE	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	1,663,695,085	2,414,991,485	1,012,364,372	1,166,021,608	1,314,441,206	1,327,183,399	1,428,712,871	Per CEDARS	None	
53	SCE	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	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Per CEDARS	None	
54	SCE	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	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Per CEDARS	None	
55	SCE	A03	RSF2	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	Residential (RSF)	2016	N/A	N/A	128,460	136,978	78,168	90,033	101,493	102,477	110,316	Per CEDARS	Definition: Single family are defined as Service account on residential rates, with dwelling code of single family home or single family dwelling.	
56	SCE	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	336,304	66,721	5.0	8.9	9.2	8.6	8.3	8.3	8.3	D1D: Downstream methodology- ••Numerator: Total downstream savings claimed••Denominator: Total number of downstream participants	Per ED: "Energy savings" = lifecycle NET savings.	
57	SCE	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	1,663,695,085	66,721	24,935	51,558	21,139	19,996	19,186	19,186	19,186	D1D: Downstream methodology- ••Numerator: Total downstream savings claimed••Denominator: Total number of downstream participants	Per ED: "Energy savings" = lifecycle NET savings.	
58	SCE	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	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	D1D: Downstream methodology- ••Numerator: Total downstream savings claimed••Denominator: Total number of downstream participants	Per ED: "Energy savings" = lifecycle NET savings.	
59	SCE	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	TBD	TBD	TBD	TBD	TBD	TBD	TBD	D1M: Midstream methodology –NOT FEASIBLE••••Numerator: Total midstream savings claimed ••Denominator: (not available) number or sector of midstream participants	Per discussion with ED, metric not feasible; PAs instead will report total upstream and midstream savings. Per ED: "Energy savings" = lifecycle NET savings.	
60	SCE	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	TBD	TBD	TBD	TBD	TBD	TBD	TBD	D1M: Midstream methodology –NOT FEASIBLE••••Numerator: Total midstream savings claimed ••Denominator: (not available) number or sector of midstream participants	Per discussion with ED, metric not feasible; PAs instead will report total upstream and midstream savings. Per ED: "Energy savings" = lifecycle NET savings.	
61	SCE	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	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	D1M: Midstream methodology –NOT FEASIBLE••••Numerator: Total midstream savings claimed ••Denominator: (not available) number or sector of midstream participants	Per discussion with ED, metric not feasible; PAs instead will report total upstream and midstream savings. Per ED: "Energy savings" = lifecycle NET savings.	
62	SCE	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	6,720	492,800	0.014	0.021	0.012	0.011	0.008	0.011	0.011	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.	
63	SCE	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	27,340,091	492,800	55	79	47	56	50	60	61	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.	
64	SCE	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	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	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.	
65	SCE	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	TBD	TBD	TBD	TBD	TBD	TBD	TBD	D1U: Upstream methodology– NOT FEASIBLE••Numerator: Total upstream savings claimed••Denominator: (not available) number or sector of of upstream participants	Per discussion with ED, metric not feasible; PAs instead will report total upstream and midstream savings. Per ED: "Energy savings" = lifecycle NET savings.	
66	SCE	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	TBD	TBD	TBD	TBD	TBD	TBD	TBD	D1U: Upstream methodology– NOT FEASIBLE••Numerator: Total upstream savings claimed••Denominator: (not available) number or sector of of upstream participants	Per discussion with ED, metric not feasible; PAs instead will report total upstream and midstream savings. Per ED: "Energy savings" = lifecycle NET savings.	
67	SCE	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	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	D1U: Upstream methodology– NOT FEASIBLE••Numerator: Total upstream savings claimed••Denominator: (not available) number or sector of of upstream participants	Per discussion with ED, metric not feasible; PAs instead will report total upstream and midstream savings. Per ED: "Energy savings" = lifecycle NET savings.	
68	SCE	A03	RSF4	P1	Percent	P1: Penetration of energy efficiency programs in the eligible market ••Percent of Participation	Metric	RSF-P1••Percent of participation relative to eligible population••	Percent of participation relative to eligible population	Residential (RSF)	2016	66,721	3,224,146	2.1%	1.5%	1.5%	1.8%	2.1%	2.1%	2.3%	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.••	
69	SCE	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	37,392	1,601,949	2.3%	0.6%	1.7%	2.0%	2.4%	2.4%	2.6%	Numerator: Number of participants in disadvantaged communities.••••Denominator: Total number of customers in disadvantaged communities.	D.18-05-041: DAC = Service accounts in zip codes corresponding to census tracts in the top quartile of CalEnviroScreen 3.0 scores.	
70	SCE	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	36,205	1,552,486	2.3%	0.7%	1.7%	2.0%	2.4%	2.4%	2.6%	P4 Methodology:••Numerator: number of participants in HTR geographic area••Denominator: Total number of service accounts in HTR geographic area	D.18-05-041 p. 43 - HTR as defined in Resolution G-3497, modified to "include disadvantaged communities (as designated by CalEPA) in the geographic criteria for hard to reach customers."	
71	SCE	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	$69,271,056	336,304	$206	$209	$158	$138	$122	$121	$112	Per CEDARS	None	
72	SCE	A03	RSF5	LC	PAC Levelized Cost ($/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	$69,271,056	1,663,695,085	$0.042	$0.036	$0.068	$0.059	$0.053	$0.052	$0.048	Per CEDARS	None	
73	SCE	A03	RSF5	LC	PAC Levelized Cost ($/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 ($/therm)	Residential (RSF)	2016	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Per CEDARS	None	
74	SCE	A03	RSF5	LC	TRC Levelized Cost ($/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	$102,006,913	336,304	$303	$245	$233	$203	$180	$178	$166	Per CEDARS	None	
75	SCE	A03	RSF5	LC	TRC Levelized Cost ($/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	$102,006,913	1,663,695,085	$0.061	$0.042	$0.101	$0.087	$0.078	$0.077	$0.071	Per CEDARS	None	
76	SCE	A03	RSF5	LC	TRC Levelized Cost ($/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	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Per CEDARS	None	
77	SCE	A03	RSF6i	EI1	BTU	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	N/A - Indicator	2.1	N/A - Indicator	N/A - Indicator	N/A - Indicator	N/A - Indicator	N/A - Indicator	Numerator: Total energy used in sector••Denominator: number of service accounts	Definition: Household refers to a service account	
78	SCE	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	1,214	1,990	1,582	1,818	2,046	2,065	2,223	Savings calculated using CET; MF designation depends on PA database	Definition: Multi-family refers to any building or property with at least two residential housing units.	
79	SCE	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	801	1,425	1,044	1,199	1,349	1,362	1,467	Savings calculated using CET; MF designation depends on PA database	Definition: Multi-family refers to any building or property with at least two residential housing units.	
80	SCE	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	18,019,733	30,825,482	4,317,497	4,972,809	5,605,784	5,660,126	6,093,125	Savings calculated using CET; MF designation depends on PA database	Definition: Multi-family refers to any building or property with at least two residential housing units.	
81	SCE	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	4,428,720	5,943,951	2,694,892	3,103,924	3,499,014	3,532,934	3,803,203	Savings calculated using CET; MF designation depends on PA database	Definition: Multi-family refers to any building or property with at least two residential housing units.	
82	SCE	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	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Savings calculated using CET; MF designation depends on PA database	Definition: Multi-family refers to any building or property with at least two residential housing units.	
83	SCE	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	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Savings calculated using CET; MF designation depends on PA database	Definition: Multi-family refers to any building or property with at least two residential housing units.	
84	SCE	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	11,650	12,173	15,186	17,450	19,634	19,824	21,340	Savings calculated using CET; MF designation depends on PA database	Definition: Multi-family refers to any building or property with at least two residential housing units.	
85	SCE	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	7,624	8,679	9,938	11,419	12,849	12,973	13,966	Savings calculated using CET; MF designation depends on PA database	Definition: Multi-family refers to any building or property with at least two residential housing units.	

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	Baseline Number	2017 Number	Short Term Target 2018	Short Term Target 2019	Short Term Target 2020	Mid Term Target (2021-2023)	Long Term Target (2024-2025)	Methodology	Key Definitions	Proxy Explanation
86	SCE	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	70,121,871	83,623,851	42,669,408	49,145,795	55,401,424	55,938,485	60,217,777	Savings calculated using CET; MF designation depends on PA database	Definition: Multi-family refers to any building or property with at least two residential housing units.	
87	SCE	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	43,823,638	60,754,041	26,666,840	30,714,348	34,623,890	34,959,534	37,633,937	Savings calculated using CET; MF designation depends on PA database	Definition: Multi-family refers to any building or property with at least two residential housing units.	
88	SCE	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	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Savings calculated using CET; MF designation depends on PA database	Definition: Multi-family refers to any building or property with at least two residential housing units.	
89	SCE	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	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Savings calculated using CET; MF designation depends on PA database	Definition: Multi-family refers to any building or property with at least two residential housing units.	
90	SCE	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	14.4	10.5	18.7	21.5	24.2	24.4	26.3	Savings calculated using CET; MF designation depends on PA database	Definition: Multi-family refers to any building or property with at least two residential housing units.	
91	SCE	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	9.5	7.5	12.4	14.2	16.0	16.1	17.4	Savings calculated using CET; MF designation depends on PA database	Definition: Multi-family refers to any building or property with at least two residential housing units.	
92	SCE	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	83,983	43,013	51,104	58,861	66,353	66,996	72,122	Savings calculated using CET; MF designation depends on PA database	Definition: Multi-family refers to any building or property with at least two residential housing units.	
93	SCE	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	52,421	31,388	31,898	36,740	41,416	41,818	45,017	Savings calculated using CET; MF designation depends on PA database	Definition: Multi-family refers to any building or property with at least two residential housing units.	
94	SCE	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	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Savings calculated using CET; MF designation depends on PA database	Definition: Multi-family refers to any building or property with at least two residential housing units.	
95	SCE	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	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Savings calculated using CET; MF designation depends on PA database	Definition: Multi-family refers to any building or property with at least two residential housing units.	
96	SCE	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	138	64	180	207	232	235	253	Savings calculated using CET; MF designation depends on PA database	Definition: Multi-family refers to any building or property with at least two residential housing units.	
97	SCE	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	90	46	118	135	152	154	165	Savings calculated using CET; MF designation depends on PA database	Definition: Multi-family refers to any building or property with at least two residential housing units.	
98	SCE	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	830,001	441,593	505,058	581,716	655,761	662,118	712,770	Savings calculated using CET; MF designation depends on PA database	Definition: Multi-family refers to any building or property with at least two residential housing units.	
99	SCE	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	518,720	320,825	315,643	363,552	409,827	413,800	445,456	Savings calculated using CET; MF designation depends on PA database	Definition: Multi-family refers to any building or property with at least two residential housing units.	
100	SCE	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	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Savings calculated using CET; MF designation depends on PA database	Definition: Multi-family refers to any building or property with at least two residential housing units.	
101	SCE	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	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Savings calculated using CET; MF designation depends on PA database	Definition: Multi-family refers to any building or property with at least two residential housing units.	
102	SCE	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	1,855	5,531	2,417	2,778	3,125	3,156	3,397	Savings calculated using CET; MF designation depends on PA database	Definition: Multi-family refers to any building or property with at least two residential housing units.	
103	SCE	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	1,223	3,961	1,595	1,832	2,062	2,082	2,241	Savings calculated using CET; MF designation depends on PA database	Definition: Multi-family refers to any building or property with at least two residential housing units.	
104	SCE	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	10,840,480	22,637,155	6,596,470	7,597,686	8,564,774	8,647,801	9,309,358	Savings calculated using CET; MF designation depends on PA database	Definition: Multi-family refers to any building or property with at least two residential housing units.	
105	SCE	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	6,766,403	16,519,211	4,117,380	4,742,319	5,345,955	5,397,779	5,810,708	Savings calculated using CET; MF designation depends on PA database	Definition: Multi-family refers to any building or property with at least two residential housing units.	
106	SCE	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	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Savings calculated using CET; MF designation depends on PA database	Definition: Multi-family refers to any building or property with at least two residential housing units.	
107	SCE	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	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Savings calculated using CET; MF designation depends on PA database	Definition: Multi-family refers to any building or property with at least two residential housing units.	
108	SCE	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	17,800	33,830	23,202	26,660	29,997	30,288	32,605	Savings calculated using CET; MF designation depends on PA database	Definition: Multi-family refers to any building or property with at least two residential housing units.	
109	SCE	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	11,649	24,122	15,184	17,447	19,631	19,821	21,337	Savings calculated using CET; MF designation depends on PA database	Definition: Multi-family refers to any building or property with at least two residential housing units.	
110	SCE	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	107,135,425	232,404,327	65,192,287	75,087,209	84,644,848	85,465,395	92,003,494	Savings calculated using CET; MF designation depends on PA database	Definition: Multi-family refers to any building or property with at least two residential housing units.	
111	SCE	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	66,955,773	168,845,392	40,742,826	46,926,795	52,899,974	53,412,787	57,498,863	Savings calculated using CET; MF designation depends on PA database	Definition: Multi-family refers to any building or property with at least two residential housing units.	
112	SCE	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	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Savings calculated using CET; MF designation depends on PA database	Definition: Multi-family refers to any building or property with at least two residential housing units.	
113	SCE	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	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Savings calculated using CET; MF designation depends on PA database	Definition: Multi-family refers to any building or property with at least two residential housing units.	
114	SCE	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	4,947	8,724	1,185	1,365	1,539	1,554	1,673	Per CEDARS	Definition: Multi-family refers to any building or property with at least two residential housing units.	
115	SCE	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	19,363	5,018	3.9	2.0	7.0	6.6	6.3	6.3	6.3	••D3 Methodology:••Numerator: Total Savings claimed for MF building retrofits••Denominator: 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	
116	SCE	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	111,298,132	5,018	22,178	13,755	18,802	17,785	17,064	17,064	17,064	••D3 Methodology:••Numerator: Total Savings claimed for MF building retrofits••Denominator: 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	
117	SCE	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	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	••D3 Methodology:••Numerator: Total Savings claimed for MF building retrofits••Denominator: 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	

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	Baseline Number	2017 Number	Short Term Target 2018	Short Term Target 2019	Short Term Target 2020	Mid Term Target (2021-2023)	Long Term Target (2024-2025)	Methodology	Key Definitions	Proxy Explanation
118	SCE	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	19,363	33,362	0.58	0.27	1.05	0.99	0.95	0.95	0.95	••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	
119	SCE	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	111,298,132	33,362	3,336	1,859	2,828	2,675	2,567	2,567	2,567	••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	
120	SCE	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	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	••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	
121	SCE	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	19,363	51,666,229	0.00037	0.00035	0.00068	0.00064	0.00062	0.00062	0.00062	D5 Methodology: ••[Numerator] Total downstream savings ••••[Denominator] Total MF square foot per Assessor data	Per ED: "Energy savings" = lifecycle NET savings.	
122	SCE	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	111,298,132	51,666,229	2.2	2.4	1.8	1.7	1.7	1.7	1.7	D5 Methodology: ••[Numerator] Total downstream savings ••••[Denominator] Total MF square foot per Assessor data	Per ED: "Energy savings" = lifecycle NET savings.	
123	SCE	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	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	D5 Methodology: ••[Numerator] Total downstream savings ••••[Denominator] Total MF square foot per Assessor data	Per ED: "Energy savings" = lifecycle NET savings.	
124	SCE	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	33,362	1,081,850	3.1%	11.4%	2.2%	2.7%	3.2%	3.2%	3.4%	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.••	
125	SCE	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	37,136	1,081,850	3.4%	6.3%	2.5%	3.0%	3.5%	3.6%	3.8%	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.••	
126	SCE	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	51,666,229	1,505,146,221	3.4%	6.3%	3.0%	3.0%	3.5%	3.6%	3.8%	P2 Methodology: ••••Numerator: # service accounts participating X average sqft/service account)••••Denominator: Square footage of all eligible accounts (per Assessor)		
127	SCE	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	23,053	606,578	3.8%	5.4%	3.3%	3.3%	3.9%	3.9%	4.2%	Numerator: Number of participants (service accounts) in disadvantaged communities.••••Denominator: Total number of customers (service accounts) in disadvantaged communities.	D.18-05-041: DAC = Service accounts in zip codes corresponding to census tracts in the top quartile of CalEnviroScreen 3.0 scores.	
128	SCE	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	17,312	559,519	3.1%	5.6%	2.7%	2.7%	3.2%	3.2%	3.5%	P4 Methodology:••Numerator: number of participants in HTR geographic area••Denominator: Total number of service accounts in HTR geographic area	D.18-05-041 p. 43 - HTR as defined in Resolution G-3497, modified to "include disadvantaged communities (as designated by CalEPA) in the geographic criteria for hard to reach customers."	
129	SCE	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	45	1,081,850	0.0042%	0.0045%	0.0036%	0.0036%	0.0043%	0.0043%	0.0046%	Total benchmarked units in RMF sector••Total number of service account in RMF sector••••Benchmarked via Portfolio Manager••••2019 MF with 17 or units MUST Benchmark••••		
130	SCE	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	6	1,996	0.30%	0.48%	0.26%	0.26%	0.31%	0.31%	0.34%	Benchmarking per Portfolio Manager. Service accounts in HTR market		
131	SCE	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	$282,529,425	19,363	$14,591	$8,173	$11,194	$9,742	$8,658	$8,575	$7,966	Per CEDARS		None
132	SCE	A04	RMF6	LC	PAC Levelized Cost ($/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	$282,529,425	111,298,132	$2.54	$1.17	$4.17	$3.62	$3.21	$3.18	$2.96	Per CEDARS		None
133	SCE	A04	RMF6	LC	PAC Levelized Cost ($/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 ($/therm)	Residential Sector – Multi-family (RMF)	2016	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Per CEDARS		None
134	SCE	A04	RMF6	LC	TRC Levelized Cost ($/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	$420,375,326	19,363	$21,710	$12,091	$16,656	$14,495	$12,883	$12,759	$11,852	Per CEDARS		None
135	SCE	A04	RMF6	LC	TRC Levelized Cost ($/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	$420,375,326	111,298,132	$3.78	$1.73	$6.21	$5.39	$4.78	$4.73	$4.40	Per CEDARS		None
136	SCE	A04	RMF6	LC	TRC Levelized Cost ($/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	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Per CEDARS		None
137	SCE	A04	RMF7i	EI2	BTU/unit	Energy Intensity per MF unit	Indicator	RMF-E12[Indicator] - and Average energy use intensity of multifamily units. including in-unit accounts)	Average first year ex-ante kWh gross per unit	Residential Sector – Multi-family (RMF)	N/A - Indicator	N/A - Indicator	N/A - Indicator	N/A - Indicator	0.0009	N/A - Indicator	N/A - Indicator	N/A - Indicator	N/A - Indicator	N/A - Indicator	Numerator: Total usage of Res MF sector••••Denominator: total units (service accounts) in Res MF sector		
138	SCE	A04	RMF7i	EI3	BTU/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 first year ex-ante kWh gross per square foot	Residential Sector – Multi-family (RMF)	N/A - Indicator	N/A - Indicator	N/A - Indicator	N/A - Indicator	1.3	N/A - Indicator	N/A - Indicator	N/A - Indicator	N/A - Indicator	N/A - Indicator	Numerator: Total usage of Res MF sector••••Denominator: average number of units in MF buiilding times average square footage of MF units		
139	SCE	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	45,083	33,377	46,069	47,451	48,400	48,869	52,607	per CEDARS		None
140	SCE	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	31,955	23,680	32,653	33,633	34,306	34,638	37,288	per CEDARS		None
141	SCE	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	220,966,133	179,894,418	270,505,278	278,620,436	284,192,845	286,947,810	308,899,305	per CEDARS		None
142	SCE	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	157,299,046	124,846,862	192,564,451	198,341,384	202,308,212	204,269,388	219,895,987	per CEDARS		None
143	SCE	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	N/A	N/A	N/A	N/A	N/A	N/A	N/A	per CEDARS		None
144	SCE	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	N/A	N/A	N/A	N/A	N/A	N/A	N/A	per CEDARS		None
145	SCE	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	456,346	324,836	466,320	480,309	489,916	494,665	532,507	per CEDARS		None
146	SCE	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	327,480	226,331	334,638	344,677	351,570	354,979	382,134	per CEDARS		None
147	SCE	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	2,364,015,445	1,796,810,180	2,894,012,063	2,980,832,425	3,040,449,073	3,069,923,187	3,304,772,176	per CEDARS		None
148	SCE	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	1,674,932,399	1,237,502,671	2,050,441,158	2,111,954,393	2,154,193,481	2,175,076,233	2,341,469,469	per CEDARS		None
149	SCE	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	N/A	N/A	N/A	N/A	N/A	N/A	N/A	per CEDARS		None
150	SCE	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	N/A	N/A	N/A	N/A	N/A	N/A	N/A	per CEDARS		None
151	SCE	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	45,083	3,277,426	1.4%	1.0%	1.4%	1.4%	1.5%	1.5%	1.7%	S2 Methodology:••Numerator = Metric C1 ••Denominator = Total sectoral usage, from PA billing database		None
152	SCE	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	31,955	3,277,426	1.0%	0.7%	1.0%	1.0%	1.1%	1.0%	1.1%	S2 Methodology:••Numerator = Metric C1 ••Denominator = Total sectoral usage, from PA billing database		None
153	SCE	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	220,966,133	12,312,761,919	1.8%	1.5%	2.2%	2.3%	2.4%	2.5%	2.7%	S2 Methodology:••Numerator = Metric C1 ••Denominator = Total sectoral usage, from PA billing database		None
154	SCE	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	157,299,046	12,312,761,919	1.3%	1.0%	1.6%	1.7%	1.7%	1.7%	1.9%	S2 Methodology:••Numerator = Metric C1 ••Denominator = Total sectoral usage, from PA billing database		None
155	SCE	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	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	S2 Methodology:••Numerator = Metric C1 ••Denominator = Total sectoral usage, from PA billing database		None
156	SCE	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	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	S2 Methodology:••Numerator = Metric C1 ••Denominator = Total sectoral usage, from PA billing database		None
157	SCE	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	456,346	3,277,426	13.9%	9.6%	16.9%	16.8%	18.2%	17.7%	20.5%	S2 Methodology:••Numerator = Metric C1 ••Denominator = Total sectoral usage, from PA billing database		None
158	SCE	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	327,480	3,277,426	10.0%	6.7%	11.5%	11.5%	12.4%	12.0%	13.2%	S2 Methodology:••Numerator = Metric C1 ••Denominator = Total sectoral usage, from PA billing database		None
159	SCE	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	2,364,015,445	12,312,761,919	19.2%	14.7%	31.6%	33.3%	34.9%	35.8%	40.6%	S2 Methodology:••Numerator = Metric C1 ••Denominator = Total sectoral usage, from PA billing database		None

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	Baseline Number	2017 Number	Short Term Target 2018	Short Term Target 2019	Short Term Target 2020	Mid Term Target (2021-2023)	Long Term Target (2024-2025)	Methodology	Key Definitions	Proxy Explanation
160	SCE	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	1,674,932,399	12,312,761,919	13.6%	10.1%	20.4%	21.3%	22.1%	22.6%	25.0%	S2 Methodology:••Numerator = Metric C1 ••Denominator = Total sectoral usage, from PA billing database	None	
161	SCE	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	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	S2 Methodology:••Numerator = Metric C1 ••Denominator = Total sectoral usage, from PA billing database	None	
162	SCE	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	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	S2 Methodology:••Numerator = Metric C1 ••Denominator = Total sectoral usage, from PA billing database	None	
163	SCE	A05	C2	G	MT CO2eq	GHG	Metric	C-G••Greenhouse gasses (MT CO2eq) Net kWh savings, reported on an annual basis	CO2-equivalent of net annual kWh savings	Commercial Sector (C)	2016	N/A	N/A	74,707	62,331	91,456	94,200	96,084	97,015	104,437	Per CEDARS		
164	SCE	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	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Did not calculate as Attachment A states: "Energy savings (**gross kWh**, therms) as a fraction of total project consumption.	Definition: "Project" is defined as "per application"	
165	SCE	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	220,966,133	4,754,674,459	4.6%	3.9%	5.7%	5.9%	6.0%	6.0%	6.5%	D2 Methodology (ED Ok)**Numerator: Energy savings claimed for project**Denominator: Energy Usage Baseline on application, against which project savings is calculated.	Definition: "Project" is defined as "per application"	
166	SCE	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	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	D2 Methodology (ED Ok)**Numerator: Energy savings claimed for project**Denominator: Energy Usage Baseline on application, against which project savings is calculated.	Definition: "Project" is defined as "per application"	
167	SCE	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	943	5,006	18.8%	18.9%	18.3%	18.8%	19.2%	19.4%	20.8%	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.••	
168	SCE	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	2,055	28,873	7.1%	7.7%	6.9%	7.1%	7.2%	7.3%	7.9%	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.••	
169	SCE	A05	C4	P1S	Percent	P1: Penetration of energy efficiency programs in the eligible market ••Percent of Participation	Metric	•C-P1S••Percent 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	15,405	421,665	3.7%	3.3%	5.0%	5.0%	5.0%	5.0%	5.0%	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.••	
170	SCE	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	423,825,264	2,581,749,800	16.4%	11.5%	15.9%	16.4%	16.7%	16.9%	18.2%	P2 Methodology: ••••Numerator: square footage of participating service accounts (x Premise IDs)•••Denominator: Square footage of commercial buildings per 2015 CEC analysis (Mohsen Abrishami)		
171	SCE	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	6,170	21,343	28.9%	41.1%	28.0%	28.9%	29.4%	29.7%	32.0%	P4 Methodology:••Numerator: number of participants in HTR geographic area••Denominator: Total number of service accounts in HTR geographic area.	D.18-05-041 p. 43 - HTR as defined in Resolution G-3497, modified to "include disadvantaged communities (as designated by CalEPA) in the geographic criteria for hard to reach customers."	
172	SCE	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	77,943,576	2,581,749,800	3.0%	3.0%	2.9%	3.0%	3.1%	3.1%	3.3%	Method:••••Numerator: Total square footage of benchmarked commercial buildings in Portfolio Manager••••Denominator: Total square footage of commercial sector per 2015 CEC analysis (Mohsen Abrishami)		
173	SCE	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	155	5,006	3.1%	3.3%	3.0%	3.1%	3.2%	3.2%	3.4%	Methodology: ••••Numerator: Number of large commercial customers that have been benchmarked on Portfolio Manager••••Denominator: Total number of S, M, and L commercial customer accounts.		
174	SCE	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	269	28,873	0.93%	0.95%	0.90%	0.93%	0.95%	0.96%	1.03%	Methodology: ••••Numerator: Number of Medium commercial customers that have been benchmarked on Portfolio Manager••••Denominator: Total number of S, M, and L commercial customer accounts.		
175	SCE	A05	C5	B5S	Percent	Benchmarking Penetration for Commercial Sector	Metric	B5(C)S••Percent of benchmarked customers relative to eligible population for small customers	Percent of benchmarked customers relative to eligible population for small customers	Commercial Sector (C)	2016	555	421,665	0.13%	0.14%	0.13%	0.13%	0.13%	0.14%	0.15%	Methodology: ••••Numerator: Number of Small commercial customers that have been benchmarked on Portfolio Manager••••Denominator: Total number of S, M, and L commercial customer accounts.		
176	SCE	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	558	21,343	2.6%	3.0%	2.5%	2.6%	2.7%	2.7%	2.9%	Benchmarking per Portfolio Manager. Service accounts x premise IDs in HTR market••••Proxy, if characteristics other than size and geo location aren't known, develop proxy using just size and geo location.••		
177	SCE	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	$95,666,526	327,480	$292	$316	$286	$278	$272	$269	$250	Per CEDARS	None	
178	SCE	A05	C6	LC	PAC Levelized Cost ($/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	$95,666,526	1,674,932,399	$0.057	$0.058	$0.047	$0.045	$0.044	$0.044	$0.041	Per CEDARS	None	
179	SCE	A05	C6	LC	PAC Levelized Cost ($/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 ($/therm)	Commercial Sector (C)	2016	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Per CEDARS	None	
180	SCE	A05	C6	LC	TRC Levelized Cost ($/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	$162,083,151	327,480	$495	$526	$484	$470	$461	$457	$424	Per CEDARS	None	
181	SCE	A05	C6	LC	TRC Levelized Cost ($/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	$162,083,151	1,674,932,399	$0.097	$0.096	$0.079	$0.077	$0.075	$0.075	$0.069	Per CEDARS	None	
182	SCE	A05	C6	LC	TRC Levelized Cost ($/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	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Per CEDARS	None	
183	SCE	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	N/A - Indicator	0%	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)••••		
184	SCE	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	N/A - Indicator	0%	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.••		
185	SCE	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	N/A - Indicator	TBD	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.		
186	SCE	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	N/A - Indicator	TBD	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.		
187	SCE	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	N/A - Indicator	60.2%	N/A - Indicator	N/A - Indicator	N/A - Indicator	N/A - Indicator	N/A - Indicator	C-F: Per CAEECC meeting and ED ••Numerator: Total Incentive••Denominator: Total Project cost••		
188	SCE	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	3,445	4,338	3,728	3,840	3,917	3,955	4,257	per CEDARS	None	
189	SCE	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	2,369	3,143	2,564	2,641	2,693	2,720	2,928	per CEDARS	None	
190	SCE	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	26,337,042	52,345,935	28,686,906	29,547,513	30,138,463	30,430,625	32,758,567	per CEDARS	None	
191	SCE	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	19,217,190	35,661,969	20,931,800	21,559,754	21,990,949	22,204,130	23,902,745	per CEDARS	None	
192	SCE	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	N/A	N/A	N/A	N/A	N/A	N/A	N/A	per CEDARS	None	
193	SCE	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	N/A	N/A	N/A	N/A	N/A	N/A	N/A	per CEDARS	None	
194	SCE	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	50,429	53,499	54,567	56,204	57,328	57,884	62,312	per CEDARS	None	
195	SCE	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	35,594	38,541	38,515	39,670	40,464	40,856	43,981	per CEDARS	None	
196	SCE	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	269,178,268	596,048,410	293,195,094	301,990,947	308,030,766	311,016,816	334,809,589	per CEDARS	None	
197	SCE	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	198,143,730	406,742,864	215,822,658	222,297,338	226,743,285	228,941,334	246,455,336	per CEDARS	None	
198	SCE	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	N/A	N/A	N/A	N/A	N/A	N/A	N/A	per CEDARS	None	
199	SCE	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	N/A	N/A	N/A	N/A	N/A	N/A	N/A	per CEDARS	None	
200	SCE	A06	P2	G	MT CO2eq	GHG	Metric	P-G••Greenhouse 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 kWh savings	Public Sector (P)	2016	N/A	N/A	10,906	17,390	11,879	12,235	12,480	12,601	13,565	Per CEDARS		
201	SCE	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	N/A - Indicator	0.8%	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 retrofits••Denominator: 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).	
202	SCE	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	N/A - Indicator	6.5%	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 retrofits••Denominator: 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).	

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	Baseline Number	2017 Number	Short Term Target 2018	Short Term Target 2019	Short Term Target 2020	Mid Term Target (2021-2023)	Long Term Target (2024-2025)	Methodology	Key Definitions	Proxy Explanation
203	SCE	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	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	••D3 Methodology:••Numerator: Total savings claimed for public sector building retrofits••Denominator: 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).	
204	SCE	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	N/A - Indicator	0.0004	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		
205	SCE	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	N/A - Indicator	4.3	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		
206	SCE	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	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	D5 Methodology: ••[Numerator] Total downstream savings ••••[Denominator] Total number of service accounts participating. x average square footage of property		
207	SCE	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	N/A - Indicator	TBD	N/A - Indicator	N/A - Indicator	N/A - Indicator	N/A - Indicator	N/A - Indicator	Numerator: claimed savings from water/wastewater customers••Denominator: No MM gal of flow data available. Propose study to collect and baseline.		
208	SCE	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	N/A - Indicator	TBD	N/A - Indicator	N/A - Indicator	N/A - Indicator	N/A - Indicator	N/A - Indicator	Numerator: claimed savings from water/wastewater customers••Denominator: No MM gallons of flow data available. Propose study to collect and baseline.		
209	SCE	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	N/A - Indicator	N/A	N/A - Indicator	N/A - Indicator	N/A - Indicator	N/A - Indicator	N/A - Indicator	Numerator: claimed savings from water/wastewater customers••Denominator: No MM gallons of flow data available. Propose study to collect and baseline.		
210	SCE	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	1,059	63,650	1.7%	4.5%	1.6%	1.7%	1.7%	1.7%	1.8%	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.••	
211	SCE	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	N/A - Indicator	3.6%	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)		
212	SCE	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	N/A - Indicator	TBD	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.		
213	SCE	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	$17,923,325	35,594	$504	$223	$465	$452	$443	$439	$408	Per CEDARS	None	
214	SCE	A07	P5	LC	PAC Levelized Cost ($/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	$17,923,325	198,143,730	$0.090	$0.021	$0.083	$0.081	$0.079	$0.078	$0.073	Per CEDARS	None	
215	SCE	A07	P5	LC	PAC Levelized Cost ($/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 ($/therm)	Public Sector (P)	2016	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Per CEDARS	None	
216	SCE	A07	P5	LC	TRC Levelized Cost ($/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	$30,886,051	35,594	$868	$1,228	$802	$779	$763	$756	$702	Per CEDARS	None	
217	SCE	A07	P5	LC	TRC Levelized Cost ($/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	$30,886,051	198,143,730	$0.16	$0.12	$0.14	$0.14	$0.14	$0.13	$0.13	Per CEDARS	None	
218	SCE	A07	P5	LC	TRC Levelized Cost ($/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	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Per CEDARS	None	
219	SCE	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	N/A	N/A - Indicator	$2,322,051	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	
220	SCE	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	957	63,650	1.5%	1.6%	1.6%	1.7%	1.8%	1.9%	2.1%		Def: "current" = "within calendar year"	
221	SCE	A07	P7	EI4	Btu	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	2,188,910	63,650	34	34	34	33	34	33	34	Method (ED Okay)••••Numerator: Total sector-level energy use, from PA billing data••••Denominator: Number of public sector accounts		
222	SCE	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	N/A - Indicator	1.6%	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 Manager••••Denominator: Total square footage of all benchmarked Public sector buildings, in Portfolio Manager		
223	SCE	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	12,456	3,315	8,130	8,374	8,542	8,625	9,284	per CEDARS	None	
224	SCE	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	8,396	2,160	5,480	5,645	5,758	5,814	6,258	per CEDARS	None	
225	SCE	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	89,591,965	27,647,751	127,633,478	131,462,482	134,091,732	135,391,617	145,749,070	per CEDARS	None	
226	SCE	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	60,890,582	18,131,707	86,745,242	89,347,600	91,134,552	92,018,010	99,057,384	per CEDARS	None	
227	SCE	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	N/A	N/A	N/A	N/A	N/A	N/A	N/A	per CEDARS	None	
228	SCE	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	N/A	N/A	N/A	N/A	N/A	N/A	N/A	per CEDARS	None	
229	SCE	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	117,756	25,918	76,866	79,172	80,756	81,539	87,776	per CEDARS	None	
230	SCE	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	79,381	16,890	51,817	53,371	54,438	54,966	59,171	per CEDARS	None	
231	SCE	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	848,405,827	239,803,337	1,208,646,178	1,244,905,564	1,269,803,675	1,282,113,152	1,380,194,752	per CEDARS	None	
232	SCE	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	577,260,340	157,565,386	822,370,005	847,041,105	863,981,927	872,357,368	939,092,669	per CEDARS	None	
233	SCE	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	N/A	N/A	N/A	N/A	N/A	N/A	N/A	per CEDARS	None	
234	SCE	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	N/A	N/A	N/A	N/A	N/A	N/A	N/A	per CEDARS	None	
235	SCE	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	29,812	8,945	42,471	43,745	44,620	45,052	48,499	Per CEDARS		
236	SCE	A08	In3	P1L	Percent	P1: Penetration of energy efficiency programs in the eligible market ••Percent of Participation	Metric	•In-P1L••Percent 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	16	53,329	0.03%	0.01%	0.03%	0.03%	0.03%	0.03%	0.03%	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.••	
237	SCE	A08	In3	P1M	Percent	P1: Penetration of energy efficiency programs in the eligible market ••Percent of Participation	Metric	••In-P1M••Percent 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	32	6,012	0.53%	0.20%	0.52%	0.53%	0.54%	0.55%	0.59%	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.••	
238	SCE	A08	In3	P1S	Percent	P1: Penetration of energy efficiency programs in the eligible market ••Percent of Participation	Metric	In-P1S••In-P1M••In-P1L••Percent of participation relative to eligible population for small, medium and **large** customers••	Percent of participation relative to eligible population for large customers	Industrial (I)	2016	106	2,397	4.4%	3.2%	4.3%	4.4%	4.5%	4.5%	4.9%	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.••	
239	SCE	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	N/A - Indicator	1.45%	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.	
240	SCE	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	N/A - Indicator	0.12%	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.	
241	SCE	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	N/A - Indicator	0.01%	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.	

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	Baseline Number	2017 Number	Short Term Target 2018	Short Term Target 2019	Short Term Target 2020	Mid Term Target (2021-2023)	Long Term Target (2024-2025)	Methodology	Key Definitions	Proxy Explanation
242	SCE	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	$18,491,067	79,381	$233	$513	$357	$346	$340	$227	$313	Per CEDARS	None	
243	SCE	A08	In5	LC	PAC Levelized Cost ($/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	$18,491,067	577,260,340	$0.032	$0.055	$0.022	$0.022	$0.021	$0.014	$0.020	Per CEDARS	None	
244	SCE	A08	In5	LC	PAC Levelized Cost ($/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 ($/therm)	Industrial (I)	2016	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Per CEDARS	None	
245	SCE	A08	In5	LC	TRC Levelized Cost ($/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	$38,263,428	79,381	$482	$858	$738	$717	$703	$696	$647	Per CEDARS	None	
246	SCE	A08	In5	LC	TRC Levelized Cost ($/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	$38,263,428	577,260,340	$0.066	$0.092	$0.047	$0.045	$0.044	$0.030	$0.041	Per CEDARS	None	
247	SCE	A08	In5	LC	TRC Levelized Cost ($/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	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Per CEDARS	None	
248	SCE	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	12,456	4,444,607	0.28%	0.08%	0.18%	0.19%	0.19%	0.20%	0.21%	S2 Methodology:••Numerator = Metric C1 ••Denominator = Total sectoral usage, from PA billing database	Define: "Reduction in consumption" = energy savings.	
249	SCE	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	8,396	4,444,607	0.19%	0.05%	0.12%	0.13%	0.13%	0.13%	0.14%	S2 Methodology:••Numerator = Metric C1 ••Denominator = Total sectoral usage, from PA billing database	Define: "Reduction in consumption" = energy savings.	
250	SCE	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	89,591,965	15,970,349,281	0.56%	0.18%	0.80%	0.83%	0.85%	0.87%	0.94%	S2 Methodology:••Numerator = Metric C1 ••Denominator = Total sectoral usage, from PA billing database	Define: "Reduction in consumption" = energy savings.	
251	SCE	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	60,890,582	15,970,349,281	0.38%	0.12%	0.54%	0.56%	0.58%	0.59%	0.63%	S2 Methodology:••Numerator = Metric C1 ••Denominator = Total sectoral usage, from PA billing database	Define: "Reduction in consumption" = energy savings.	
252	SCE	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	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	S2 Methodology:••Numerator = Metric C1 ••Denominator = Total sectoral usage, from PA billing database	Define: "Reduction in consumption" = energy savings.	
253	SCE	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	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	S2 Methodology:••Numerator = Metric C1 ••Denominator = Total sectoral usage, from PA billing database	Define: "Reduction in consumption" = energy savings.	
254	SCE	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	117,756	4,444,607	2.6%	0.6%	1.7%	1.8%	1.9%	1.9%	2.1%	S2 Methodology:••Numerator = Metric C1 ••Denominator = Total sectoral usage, from PA billing database	Define: "Reduction in consumption" = energy savings.	
255	SCE	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	79,381	4,444,607	1.8%	0.4%	1.2%	1.2%	1.3%	1.3%	1.4%	S2 Methodology:••Numerator = Metric C1 ••Denominator = Total sectoral usage, from PA billing database	Define: "Reduction in consumption" = energy savings.	
256	SCE	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	848,405,827	15,970,349,281	5.3%	1.6%	7.6%	8.4%	9.4%	10.5%	12.6%	S2 Methodology:••Numerator = Metric C1 ••Denominator = Total sectoral usage, from PA billing database	Define: "Reduction in consumption" = energy savings.	
257	SCE	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	577,260,340	15,970,349,281	3.6%	1.0%	5.1%	5.6%	6.0%	6.5%	7.5%	S2 Methodology:••Numerator = Metric C1 ••Denominator = Total sectoral usage, from PA billing database	Define: "Reduction in consumption" = energy savings.	
258	SCE	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	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	S2 Methodology:••Numerator = Metric C1 ••Denominator = Total sectoral usage, from PA billing database	Define: "Reduction in consumption" = energy savings.	
259	SCE	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	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	S2 Methodology:••Numerator = Metric C1 ••Denominator = Total sectoral usage, from PA billing database	Define: "Reduction in consumption" = energy savings.	
260	SCE	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	1,413	1,576	420	432	441	445	479	per CEDARS	None	
261	SCE	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	987	1,065	293	302	308	311	335	per CEDARS	None	
262	SCE	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	12,141,150	6,129,011	1,817,680	1,872,210	1,909,654	1,928,166	2,075,671	per CEDARS	None	
263	SCE	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	8,338,811	4,085,061	1,248,423	1,285,875	1,311,593	1,324,308	1,425,617	per CEDARS	None	
264	SCE	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	N/A	N/A	N/A	N/A	N/A	N/A	N/A	per CEDARS	None	
265	SCE	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	N/A	N/A	N/A	N/A	N/A	N/A	N/A	per CEDARS	None	
266	SCE	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	9,638	11,287	2,862	2,948	3,007	3,036	3,268	per CEDARS	None	
267	SCE	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	6,734	7,697	1,999	2,059	2,101	2,121	2,283	per CEDARS	None	
268	SCE	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	85,795,016	46,216,454	12,844,571	13,229,908	13,494,506	13,625,322	14,667,659	per CEDARS	None	
269	SCE	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	59,271,769	31,076,397	8,873,714	9,139,926	9,322,724	9,413,099	10,133,200	per CEDARS	None	
270	SCE	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	N/A	N/A	N/A	N/A	N/A	N/A	N/A	per CEDARS	None	
271	SCE	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	N/A	N/A	N/A	N/A	N/A	N/A	N/A	per CEDARS	None	
272	SCE	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	4,146	2,022	621	639	652	658	709	Per CEDARS		
273	SCE	A09	A3	P1: Particpants	Percent	P1: Penetration of energy efficiency programs in the eligible market ••Percent of Participation	Metric	Ag-P1S••Percent 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	23	369	6.2%	5.3%	6.0%	6.2%	6.3%	6.4%	6.9%	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.••	
274	SCE	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	104	6,668	1.6%	1.5%	1.5%	1.6%	1.6%	1.6%	1.7%	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.••	
275	SCE	A09	A3	P1: Particpants	Percent	P1: Penetration of energy efficiency programs in the eligible market ••Percent of Participation	Metric	Ag-P1L••Percent 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	27	19,795	0.14%	0.25%	0.13%	0.14%	0.14%	0.14%	0.15%	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.••	
276	SCE	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	$4,038,372	6,734	$600	$437	$2,020	$1,961	$1,922	$1,904	$1,769	Per CEDARS	None	
277	SCE	A09	A4	LC	PAC Levelized Cost ($/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	$4,038,372	59,271,769	$0.068	$0.11	$0.46	$0.44	$0.43	$0.43	$0.40	Per CEDARS	None	
278	SCE	A09	A4	LC	PAC Levelized Cost ($/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 ($/therm)	Agricultural (A)	2016	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Per CEDARS	None	
279	SCE	A09	A4	LC	TRC Levelized Cost ($/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	$7,130,682	6,734	$1,059	$846	$3,566	$3,462	$3,395	$3,362	$3,123	Per CEDARS	None	
280	SCE	A09	A4	LC	TRC Levelized Cost ($/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	$7,130,682	59,271,769	$0.12	$0.21	$0.80	$0.78	$0.76	$0.76	$0.70	Per CEDARS	None	
281	SCE	A09	A4	LC	TRC Levelized Cost ($/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	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Per CEDARS	None	
282	SCE	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	1,402	1,889	1245 annual average	1327 annual average	1323 annual average	TBD	TBD	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.	
283	SCE	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	29	N/A	44 annual average	56 annual average	55 annual average	TBD	TBD	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.	
284	SCE	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	272	346	286 annual average	389 annual average	415 annual average	TBD	TBD	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.	
285	SCE	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	12	23	12 total	12 total	12 total	TBD	TBD	Measures supported by CASE	Baseline and targets for measures supported are for 3 year cycle rather than annual.	
286	SCE	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	12	0	12 total	12 total	12 total	TBD	TBD	Measures adopted by CEC	Baseline and targets for measures supported are for 3 year cycle rather than annual.	
287	SCE	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	5	5	10 total	10 total	10 total	TBD	TBD	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.	
288	SCE	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	4	0	10 total	10 total	10 total	TBD	TBD	Measures adopted by CEC	Baseline is annual. Targets for measures adopted are for 3 year cycle rather than annual.	

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	Baseline Number	2017 Number	Short Term Target 2018	Short Term Target 2019	Short Term Target 2020	Mid Term Target (2021-2023)	Long Term Target (2024-2025)	Methodology	Key Definitions	Proxy Explanation
289	SCE	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	22	7	21	20	20	TBD	TBD	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.	
290	SCE	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	100%	100%	100%	100%	100%	TBD	TBD	# IOUs supported ÷ # DOE adopted	Baselines and targets are annual.	
291	SCE	A10	CS5	1	Count	Reach Codes	Metric	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	6	12	25 total	25 total	25 total	TBD	TBD	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/).	
292	SCE	A11	CS6	1	Count	Compliance Improvement	Metric	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	138	118	138	138	138	TBD	TBD	Number of training activities	118 live training sessions and 20 webinars in 2017; short, mid, and long-term targets are annual	
293	SCE	A11	CS6	2	Count	Compliance Improvement	Metric	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	3,600	3,000	3,600	3,600	3,600	TBD	TBD	Number of participants	3000 attendees for live training and 600 attendees for webinars in 2017; short, mid, and long-term targets are annual. Attendees will be shown by major segment (i.e., building officials, builders, architects, HERS raters) and target size of each segment will be provided during first metrics reporting.	
294	SCE	A11	CS6	3	Score	Compliance Improvement	Metric	Increase in code compliance knowledge pre/post training	Increase in code compliance knowledge pre/post training	Codes & Standards (CS)	2017	N/A	N/A	20%	20%	20%	20%	20%	TBD	TBD	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.	
295	SCE	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	N/A	N/A	N/A	N/A	N/A	N/A	N/A			
296	SCE	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	N/A - Indicator	N/A	N/A - Indicator	N/A - Indicator	N/A - Indicator	N/A - Indicator	N/A - Indicator			
297	SCE	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	N/A - Indicator	N/A	N/A - Indicator	N/A - Indicator	N/A - Indicator	N/A - Indicator	N/A - Indicator			
298	SCE	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	N/A - Indicator	N/A	N/A - Indicator	N/A - Indicator	N/A - Indicator	N/A - Indicator	N/A - Indicator			
299	SCE	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	N/A - Indicator	N/A	N/A - Indicator	N/A - Indicator	N/A - Indicator	N/A - Indicator	N/A - Indicator			
300	SCE	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	N/A - Indicator	N/A	N/A - Indicator	N/A - Indicator	N/A - Indicator	N/A - Indicator	N/A - Indicator			
301	SCE	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	N/A	0	2	4	4	4	4	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.	
302	SCE	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	12,141	12,134	14,216	14,216	14,216	17,401	17,574	Report from class registration database.	"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. This is an accurate measurement of audience interest per topic / sector. Please note that the IOUs will begin using a standard categorization of training topic areas in 2018.	
303	SCE	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	9%	9%	10%	10%	10%	12%	12%	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. PG&E's share of 321,000 jobs is approximately 132,380.	"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.	
304	SCE	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	N/A	N/A	TBD	TBD	TBD	TBD	TBD	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.	
305	SCE	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	N/A	N/A	TBD	TBD	TBD	TBD	TBD	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	
306	SCE	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	N/A	TBD	N/A	N/A	N/A	N/A	N/A	CWR program does not yet exist.	N/A	
307	SCE	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	N/A	N/A	tbd TPMs*	tbd TPMs*	6 TPMs total*[1]	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	
308	SCE	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	N/A	N/A	tbd TPMs*	tbd TPMs*	3 TPMs total*[1]	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	
309	SCE	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	61 projects	53	tbd projects*	tbd projects*	61 projects total*[1]	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.	
310	SCE	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	5	5	tbd events*	tbd events*	5 events total*[1]	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.	
311	SCE	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	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.	
312	SCE	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	N/A	N/A	tbd*	tbd*	2 total*[1]	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.	
313	SCE	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	N/A	N/A	tbd*	tbd*	3 total*[1]	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.	
314	SCE	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*	Per ED, to be determined by an ED study*	TBD	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*	TBD	TBD	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.	

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	Baseline Number	2017 Number	Short Term Target 2018	Short Term Target 2019	Short Term Target 2020	Mid Term Target (2021-2023)	Long Term Target (2024-2025)	Methodology	Key Definitions	Proxy Explanation
315	SCE	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	Per ED, to be determined by an ED study*	TBD	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*	TBD	TBD	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.	
316	SCE	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*	Per ED, to be determined by an ED study*	TBD	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*	TBD	TBD	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.	
317	SCE	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	Per ED, to be determined by an ED study*	TBD	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*	TBD	TBD	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.	
318	SCE	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	Per ED, to be determined by an ED study*	TBD	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*	TBD	TBD	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.	
319	SCE	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	Per ED, to be determined by an ED study*	TBD	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*	TBD	TBD	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.	
320	SCE	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	Per ED, to be determined by an ED study*	TBD	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*	TBD	TBD	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.	
321	SCE	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	N/A	TBD	tbd*	tbd*	4 cumulative[1]	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.	
322	SCE	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	N/A	TBD	tbd*	tbd*	2 cumulative[1]	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.	
323	SCE	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	N/A	TBD	tbd*	tbd*	2 cumulative[1]	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.	
324	SCE	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	N/A	TBD	tbd*	tbd*	1 cumulative[1]	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.	
325	SCE	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	N/A	TBD	tbd*	tbd*	6 cumulative[1]	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.	
326	SCE	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	N/A	TBD	tbd*	tbd*	2 cumulative1	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.	

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	Baseline Number	2017 Number	Short Term Target 2018	Short Term Target 2019	Short Term Target 2020	Mid Term Target (2021-2023)	Long Term Target (2024-2025)	Methodology	Key Definitions	Proxy Explanation
327	SCE	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	N/A	TBD	tbd*	tbd*	2 cumulative1	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.	
328	SCE	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	N/A	TBD	tbd*	tbd*	1 cumulative1	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.	
329	SW	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	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.	

[1]In the August 6, 2018 metrics compliance filing, SCE inadvertantly reported these targets for 2018 when in fact, they should have been reported as targets for 2020.

Column Index

Southern California Edison

EE Sector Metrics with Targets - ED Template Column Index

Each metric in this workbook can be mapped to the Final Business Plan Decision Attachment A metric using page number (AttA Page) and the order of the metric within the table of sector-level metrics (AttA Order). Because there are some collinear metrics in Attachment A and some multi-part metrics, we have further coded the metric with Metric Type (Method Code is a shorthand for Metric Type) to make distinctions between the multiple parts of the metric. Note that (net vs gross), (kW vs kWh vs Therm) and (PAC vs TRC) have not been coded separately, but instead can be distinguished by looking at the "Units of Measurement" column.
Each unique metric, including each part of a multi-part metric, is a separate row. Baselines, 2018, 2019, 2020, Mid-, and Long-Term targets for each metric is reported on the same row.

Column Name	Column Description
PA	Program Administrator
AttA Page	Attachment A Page
AttA Order	Attachment A order of metric in the sector metrics table in Attachment A
Method Code	(PA use) Code indicating a unique metric calculation methodology or definition was used
Metric Type	(PA Use) Metric type
Metric Language	Language of the metric from D.18-05-041 Attachment A
Sector	Sector
Baseline Year	Baseline year is 2016, unless there was no activity in 2016, in which case the baseline was set for a year in which there was activity
Baseline Number	Data from PA
2018 Target	Data from PA
2019 Target	Data from PA
2020 Target	Data from PA
Mid Term Target (2021-2023)	Data from PA
Long Term Target (2024-2025)	Data from PA
Units of Measurement	Units of measurement
Methodology	Short description of metric calculation
Key Definitions	Key definitions for metric
Was Proxy Used? Y/N	Flag for use of proxy in calculation of metric
Proxy Explanation	Explanation of how proxy was calculated, what secondary data sources were used, and when PA plans to be able to use primary data for metric.

Definitions

Southern California Edison

EE Sector Metrics with Targets - Definitions

	Term	Definition
1	Service Account	A service account is a system generated number that uniquely identifies a billable entity
2	Eligible Population	Total number of service accounts in sector/segment
3	Disadvantaged Communities	Service account address located in zip codes that contain CalEnviroScreen 3.0 census tracts.
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." Hard-to-reach zipcodes determined by 2014 Aspen Research study.
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	Service account on residential rates, with dwelling code of single family home or single family dwelling.
8	Participant	A unique person or entity identified through a service account and who participants in a ratepayer funded energy efficiency intervention
9	Household	Residential serivce 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/SF designation based on dwelling codes in service 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	Any structure used or intended to support or shelter any use or occupancy, that receives energy from a utility
14	Property	A property is a collection of buildings and/or structures within a defined proximity and is intended to support or shelter any use or occupancy, 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	Square feet of eligible population participating (by property)	Sq footage of participating properties captured when provided.
17	In Unit	Living space as designated by a unique service account and/or dwelling codes.
18	Common Area	Shared space within a property, designated by dwelling codes, a "common area" flag, and/or by use of a commercial meter.
19	Master Metered	Define using rate class, or rate class and/or by dwelling code. Non-overlapping with in-unit
20	Unit	Service accounts within MF property. Non-overlapping with Master Metered.
21	Square Feet of Eligible Population	Sq footage of defined space per metric definition.
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 Satisifaction	Per consistent survey, to be developed
31	Trade Ally Satisfaction	Per consistent survey, to be developed
32	Customer Size - Small	A service account with <50 kW demand
33	Customer Size - Medium	A service account with 50 - 250 kW demand
34	Customer Size - Large	A service account with >250 kW demand

Attachment E
Description of Program Changes

Description of Program Changes

Programs and Subprograms Proposed To Be Discontinued

Resource Programs:

1. Energy Upgrade California Program (SCE-13-SW-001D)

SCE has made multiple improvements since program inception to improve the Energy Upgrade California Home Upgrade ("Home Upgrade") program; however, the Home Upgrade program continues to have a very low cost-effectiveness ratio as shown in the table below. SCE does not anticipate the TRC improving, and therefore SCE proposes to discontinue this program to improve the cost-effectiveness of its EE portfolio. SCE has communicated to Southern California Gas Company, vendors, and contractors its intention to close this program.

Program ID	Program Name	Program Category	Historical TRC			
			2015 [1]	2016 [1]	2017 [1]	2018 [2]
SCE-13-SW-001D	Energy Upgrade California	Resource	0.16	0.20	0.18	0.18

[1] TRC calculation for 2015-2017 includes 5% Market Effects and was run using the 2013 set of avoided costs.

[2] TRC calculation for 2018 uses 2017 actuals, rerun using 2018 avoided costs, with 5% market effects.

2. IDEEA 365 (SCE-13-TP-020)

The intent of the IDEEA365 Program is to find, fund, and foster the best EE and IDSM delivery approaches available in the marketplace; however, because SCE will be conducting open solicitations for innovative and cost-effective third-party proposed, designed, and implemented programs as directed in D.18-01-004, this program is no longer needed. As such, SCE proposes to close this program and direct future program ideas to its open solicitations.

Program ID	Program Name	Program Category	Historical TRC			
			2015 [1]	2016 [1]	2017 [1]	2018 [2]
SCE-13-TP-020	IDEEA365 Program [3]	Resource	0.06	0.70	-	-

[1] TRC calculation for 2015-2017 includes 5% Market Effects and was run using the 2013 set of avoided costs.

[2] TRC calculation for 2018 uses 2017 actuals, rerun using 2018 avoided costs, with 5% market effects.

[3] Starting 2017, MICE and WISE were removed from IDEEA365 and became standalone programs.

3. Cool Schools Program (SCE-13-TP-013)

The Cool Schools program assists public and private schools with energy efficiency and conservation. Cool Schools utilizes the knowledge and communication channels of trusted institutions and provides financial assistance to accelerate the replacement of existing equipment near the end of its useful life with new, more energy-efficient equipment.

The Cool Schools program is not as financially attractive to customers as turnkey programs. Furthermore, the reduction in Proposition 39 funding has caused many school customers to only bring their buildings up to code instead of achieving savings above code. For these reasons, SCE does not foresee the cost effectiveness of this program increasing over time. In order to maintain the cost-effectiveness of the overall portfolio, SCE proposes to discontinue the Cool Schools program. Please see the table below for the Cool Schools Program's historical TRC ratio.

In 2016, SCE notified vendors that this program will be closed pending Commission approval. In addition in 2017, SCE stopped marketing the program to customers and stopped accepting new project applications.

Program ID	Program Name	Program Category	Historical TRC			
			2015 [1]	2016 [1]	2017 [1]	2018 [2]
SCE-13-TP-013	Cool Schools	Resource	-	0.47	0.54	0.47

[1] TRC calculation for 2015-2017 includes 5% Market Effects and was run using the 2013 set of avoided costs.

[2] TRC calculation for 2018 uses 2017 actuals, rerun using 2018 avoided costs, with 5% market effects.

4. Commercial Utility Building Efficiency (SCE-13-TP-014)

Commercial Utility Building Efficiency (CUBE) provides audits, technical assistance, and incentives to support installation of recommended EE equipment at privately owned commercial office buildings. Changes in claimable energy savings due to Title 24 updates and changes in Industry Standard Practice (ISP) assumptions have drastically reduced the number of eligible measures for CUBE; therefore, SCE does not believe the cost effectiveness of this program will increase in the future. In order to improve the cost-effectiveness of the overall portfolio, SCE proposes to discontinue the program. Please see the table below for the CUBE Program's historical TRC ratio.

The existing commercial building customer base can be served by other programs in SCE's portfolio. In 2016, SCE notified vendors that this program will be closed pending Commission approval. In 2017, SCE stopped marketing the program to customers and stopped accepting new projects.

Program ID	Program Name	Program Category	Historical TRC			
			2015 [1]	2016 [1]	2017 [1]	2018 [2]
SCE-13-TP-014	Commercial Utility Building Efficiency	Resource	0.75	0.51	0.86	0.62

[1] TRC calculation for 2015-2017 includes 5% Market Effects and was run using the 2013 set of avoided costs.

[2] TRC calculation for 2018 uses 2017 actuals, rerun using 2018 avoided costs, with 5% market effects.

5. Energy Leader Partnership Program (SCE-12-L-002Rollup)

The intent of the Energy Leader Partner (ELP) Program is to support new local governments in SCE's service territory by identifying and implementing EE opportunities in municipal facilities and increasing community awareness of, and participation in, demand-side-management programs. SCE proposes to close this program and not add new Partnerships while we focus on improving cost effectiveness in this segment. SCE will provide similar support to local governments through its existing Local Government Partnership (LGP) programs and, if needed and cost effective, SCE will file an Advice Letter to create a new program when a local government is interested in becoming an LGP.

Although the ELP Program is considered a resource program, SCE has not claimed any savings for the program from 2015-2018, as shown below. As such, SCE does not anticipate the TRC improving over time.

Program ID	Program Name	Program Category	Historical TRC			
			2015 [1]	2016 [1]	2017 [1]	2018 [2]
SCE-13-L-002Roll	Energy Leader Partnership Program	Resource	-	-	-	-

[1] TRC calculation for 2015-2017 includes 5% Market Effects and was run using the 2013 set of avoided costs.

[2] TRC calculation for 2018 uses 2017 actuals, rerun using 2018 avoided costs, with 5% market effects.

6. ARRA- Originated Financing - EmPower (SCE-13-SW-007B)

The emPower Central Coast Energy Efficiency Financing Program is a continuation of financing programs originally supported by American Recovery and Reinvestment Act ("ARRA") stimulus funding in 2012 and implemented by the County of Santa Barbara. Subsequently in 2015 it was scaled up to include Ventura and San Luis Obispo counties. The Program was created to streamline the process of attaining low-cost unsecured loans, recruitment and training of local contractors, and directing customers to utility rebates to help homeowners overcome the high upfront cost associated with energy efficiency upgrades. EmPower was also meant to coordinate with and enhance the Participating Utilities Energy Upgrade California program ("EUC Program") by driving customer participation and qualifying those projects for loans.

After careful consideration and on-going evaluation of the program's performance and expenditures, the IOUs (SoCalGas, PG&E, SCE) have uniformly determined that the program has not achieved the level of unsecured loans and energy efficiency project savings to make it cost-effective, and therefore to discontinue the program. A contributing factor has been lack of success in generation of direct participation in Investor-Owned Utilities Core EE residential rebate programs, particularly with respect to Energy Upgrade CA. Other reasons for program closure include the recent 3CREN approval to move forward with a program that will include Workforce Education and Training in the same counties for contractors and the CHEEF Residential Energy Efficiency Loan (REEL) program, which is duplicative of emPower's residential home loan efforts. On July 26th, an official communication was delivered to the County stating the utilities decision to discontinue funding of the program, and the submittal of such intention through the 2019 ABAL. In partnership with the County, current discussions are underway to develop and provide input as to their program activities ramp-down plan, as well as a stakeholder communication plan.

Program ID	Program Name	Program Category	Historical TRC			
			2015 [1]	2016 [1]	2017 [1]	2018 [2]
SCE-13-SW-007B	ARRA-Originated Financing [3]	Resource	-	-	-	-

[1] TRC calculation for 2015-2017 includes 5% Market Effects and was run using the 2013 set of avoided costs.

[2] TRC calculation for 2018 uses 2017 actuals, rerun using 2018 avoided costs, with 5% market effects.

[3] Financing programs are considered resource, but do not have savings attributed to the program.

Non- Resource Programs:

1. Cool Planet Program (SCE-13-TP-002)

The Cool Planet Program is a non-resource program that provides utility business customers with education and technical training to measure and manage their energy use and greenhouse gas (GHG) emissions. Customers earn public recognition and awards of 1-, 2-, or 3-year memberships with The Climate Registry based on meeting kWh energy savings or demand response program participation thresholds. The Cool Planet Program also includes a water-energy GHG education pilot program that offers a clear means to quantify, compare, and analyze the GHG emissions embedded in delivered water using a consistent and transparent methodology.

Due to the lack of success of the program and to improve the cost-effectiveness of the overall portfolio, SCE will discontinue the Cool Planet Program. As an added benefit, this effort will also allow for alignment to SCE's Public Sector design and open up new opportunities for both water-energy initiatives and education. At the end of the year, SCE will communicate the program closure to customers as well as through the program vendor (i.e., The Climate Registry) and water districts.

2. Lighting Market Transformation Program (SCE-13-SW-005A)

Lighting Market Transformation (LMT) is a non-resource program that promotes efficient lighting technologies. This includes developing innovative data-driven program strategies to use in utility lighting programs. However, due to the adoption of LED technology in the market, LMT's success in supporting efficient progression of lighting solutions into customer EE programs, and the adoption of code requirements for efficient lighting technologies, LMT is no longer necessary.

3. Lighting Innovation Program (SCE-13-SW-005B)

Lighting Innovation (LI) is a non-resource subprogram that evaluates products or program approaches that are new to the market and could potentially enter the Primary Lighting Program or the Commercial, Industrial, and Agricultural EE Programs. While the program provides valuable information on lighting challenges and barriers that exist, activities conducted in the LI subprogram can be administered in the Emerging Technologies Program. Emerging Technologies will continue to support programs by evaluating products and or program approaches under a new Technology Focused Pilot activity. This includes evaluating innovative data-driven program strategies to use in lighting programs and coordination with Codes & Standards. However, it will be up to third parties that are new to the market and could potentially enter the Primary Lighting Program or the Commercial, Industrial, and Agricultural EE Programs to do so.

4. WE&T Planning (SCE-13-SW-010C)

Workforce Education and Training (WE&T) is a non-resource program that involves management and execution of several strategic statewide planning tasks, including holding annual WE&T public workshops and stakeholder engagement sessions, conducting needs assessments, and hiring industry subject matter experts and consultants to assist in the development of a comprehensive approach to WE&T program design and implementation. While the program does provide some value to customers, the program is not cost-effective because it does not deliver energy savings. Thus, WE&T Planning will be discontinued to improve the cost effectiveness of the portfolio. As noted above, SCE recommends the Commission consider removing the costs of WE&T programs from the cost-effectiveness evaluations as part of the Market Transformation policy issues that will be considered in Phase III of R.13-11-005.

5. WE&T – Mobile Energy Unit

The Mobile Education Unit (MEU) Program is a non-resource customer outreach program designed to increase awareness and participation in SCE’s Energy Efficiency, Demand Response, Self-Generation, and Income Qualified programs. MEU attends various community-based events throughout SCE’s service territory. While the program does provide some value to end user residential customers, the program is not cost-effective because it does not deliver energy savings. Thus, MEU

will be discontinued. Internal and external stakeholders, including the Customer Call Center, will be notified of the program's closure through website updates, email blasts, and formal communication.

6. WE&T – Community Language Efficiency Outreach

The Community Language Efficiency Outreach (CLEO) Program is a non-resource, language-based customer outreach program designed to increase awareness and participation in SCE's Energy Efficiency, Demand Response, Self-Generation, and Income Qualified programs. CLEO attends various community-based events throughout SCE's service territory to educate customers on the programs and services available to them in their primary language. While the program does provide some value to end user residential customers, the program is not cost-effective because it does not deliver energy savings. Thus, CLEO will be discontinued. Internal and external stakeholders, including the Customer Call Center, will be notified of the Program's closure through website updates, email blasts, and formal communication.

7. Sustainable Communities Pilot Program (SCE-13-TP-019)

SCE's Sustainable Communities Program (SCP) is a non-resource program that provides design and technical assistance, training, and other professional resources to new construction projects. The purpose of SCP is to advance new construction projects beyond Title 24 requirements to achieve Zero Net Energy (ZNE). As part of the 2018 –2025 EE Business Plan, SCEs Codes and Standards program already plans to enhance its Planning and Coordination sub-program to include ZNE-preparedness activities to support the building industry in reaching ZNE; specifically, ZNE-preparedness activities with an emphasis on residential new construction through design and technical assistance, pilots, and other industry-supporting activities. Additionally, the Codes and Standards and Emerging Technologies Programs will continue to coordinate activities to leverage the successes of the past SCP and ZNE projects. SCE is eliminating the SCP to avoid overlapping efforts and, thereby, optimizing the cost-effectiveness of the EE portfolio.

8. Integrated Demand Side Management Program (SCE-13-SW-006)

SCE's Energy Efficiency Integrated Demand Side Management Program (EE IDSM) is a non-resource program that encourages programs to integrate the full range of demand-side management (DSM) options; however, a specific EE IDSM program is no longer needed as SCE transitions to third-party proposed, designed, and implemented programs through the upcoming third party solicitations where bidders will be encouraged to propose IDSM approaches in support of the IDSM efforts directed by the Commission in D.18-05-041. SCE will also continue to foster IDSM through the DR IDSM program and associated budget.

Program Realignments

1. Strategic Energy Management (SCE-13-SW-003D)

SCE will consolidate the Agriculture Continuous Energy Improvement Program (SCE-13-SW-004D), Commercial Continuous Energy Improvement Program (SCE-13-SW-002E), and the Industrial Continuous Energy Improvement Program (SCE-13-SW-003D), into a single program named the Strategic Energy Management program (previously the program number for the Industrial Continuous Energy Improvement Program). The Strategic Energy Management (SEM) program is a resource program that provides a concierge approach in identifying, assisting, and implementing EE projects with a whole facility focus. SEM is a milestone-based program with eight workshops that span 26 months. The purpose of the workshops is to educate and deliver savings to the customer. The concierge service will have one implementer and one point of contact to assist the contractor through the sunrise and sunset of EE projects with a whole-building approach.

2. Commercial Continuous Energy Improvement (SCE-13-SW-002E)

Per the discussion above, SCE will consolidate the Agriculture Continuous Energy Improvement Program, Commercial Continuous Energy Improvement Program, and the Industrial Continuous Energy Improvement Program into a single program named the Strategic Energy Management (SEM) program.

3. Agricultural Continuous Energy Improvement (SCE-13-SW-004D)

Per the discussion above, SCE will consolidate the Agriculture Continuous Energy Improvement Program, Commercial Continuous Energy Improvement Program, and the Industrial Continuous Energy Improvement Program into a single program named the Strategic Energy Management (SEM) program.

4. Industrial Continuous Energy Improvement

Per the discussion above, SCE will consolidate the Agriculture Continuous Energy Improvement Program, Commercial Continuous Energy Improvement Program, and the Industrial Continuous Energy Improvement Program into a single program named the Strategic Energy Management (SEM) program.

New Programs and Subprograms

The following programs are existing programs that began as pilots but do not have formal implementation plans and Programs IDs.

1. Midstream Point of Purchase (SCE-13-SW-002H)

The Midstream Point of Purchase (MPOP) program provides incentives at the point of purchase through participating distributors of certain pre-approved energy-efficient products. The MPOP program encourages distributors to purchase and stock higher quantities of high-efficiency equipment. MPOP's instant rebate at the point of purchase facilitates customer decisions to purchase high-efficiency equipment by reducing both the equipment cost premium and the effort required to submit an application. SCE reimburses the participating distributor a pre-authorized incentive amount for each qualifying product sold to an eligible business customer. The distributor collects the customer information at the point of purchase and provides product data to SCE through an online tool for invoice processing. SCE validates the customer and product data and issues payment to the distributor. MPOP began as a pilot in SCE's Lighting Innovation program. Below is the forecasted TRC of the program.

Program ID	Program Name	Program Category	Forecasted TRC
			Year 2019
SCE-13-SW-002H	Midstream Piont of Purchase	Resource	1.12

2. Water Infrastructure and System Efficiency Program (SCE-13-TP-002)

The Water Infrastructure and System Efficiency Program (WISE) program is the result of a successful IDEEA365 offering from 2014. The WISE program will leverage data from the Pump Efficiency Services Program (a successful SCE water-energy program that produces significant water and energy savings) as a baseline for the new pump measures. WISE will target water-energy solutions at all major areas of water in SCE's service territory (e.g., source water pumping, water treatment, water distribution, and waste water treatment). WISE will also look at benchmarking opportunities and audit functions as well as installations with an emphasis on measures such as system optimization, pump efficiency, and pump repair for customers, including those from SCE's Government and Institutional Partnership programs. Below is the forecasted TRC of the program.

Program ID	Program Name	Program Category	Forecasted TRC
			Year 2019
SCE-13-TP-002	Water Infrastructure and System Effciency Program	Resource	0.36

3. AB793 Residential Pay for Performance Program (SCE-13-TP-024)

California Assembly Bill 793 (AB 793), and the associated Commission Resolution E-4820, mandates all IOUs to develop and implement incentive programs targeting residential customers who acquire Energy Management Technologies (EMTs). Pursuant to Resolution E-4820, program offerings should include a mechanism to incentivize residential customers to acquire EMTs to meet EE savings goals under a pay-for-performance model. In 2017, SCE issued a Request for Offer (RFO) to seek cost effective, and "ready-to-implement" proposals from qualified third-parties to initiate a Pay-for-Performance program that links incentives directly to measured energy savings. As a result, SCE awarded Home Energy Analytics (HEA) a contract to design, implement, and administrator the Home Intel Program. The Home Intel Program will assist residential customers to quickly and accurately understand their home's energy usage and implement a cost-effective path to savings. Below is the forecasted TRC of the program.

Program ID	Program Name	Program Category	Forecasted TRC
			Year 2019
SCE-13-TP-024	AB 793 Residential Pay for Performance	Resource	0.73

4. Facilities Assessment (SCE-13-TP-025)

Pursuant to AB 793 described above, SCE created the Facilities Assessment Program, a third-party implemented program that will provide services to SCE customers that will allow them to better manage their energy usage, identify behavioral, retro-commissioning, and operational-based energy saving opportunities, and achieve energy savings by utilizing energy management technology or software. The program will be a resource program designed to leverage the investment SCE has made in its Advanced Meter Infrastructure (AMI) deployment through data analytics and customer engagement. Savings resulting from the Facilities Assessment Program will be calculated using the Normalized Metered Energy Consumption (NMEC) approach.

Program ID	Program Name	Program Category	Forecasted TRC
			Year 2019
SCE-13-TP-025	Facilities Assessment	Resource	0.61

5. National and International Standards (Sub-Program of the Codes & Standards Program)

National and International Standards is a new category of activities that focuses on both federal regulations as well as voluntary codes that are developed at a national level and directly impact IOU customers. California codes and standards need to align with and reflect international as well as national standards. The purpose of this new category is to help ensure such an alignment by identifying and participating in the various processes associated with national code development bodies such as the U.S. Department of Energy, the American Society of Heating, Refrigerating, and

Air-Conditioning Engineers (ASHRAE), the International Code Council (ICC), as well as national organizations that oversee national voluntary standards such as the U.S. Environmental Protection Agency, the U.S. Green Building Council, the Collaborative for High Performance Schools (CHPS), and other national organizations such as the Federal Trade Commission (FTC) and the U.S. Legislature. This will be a non-resource program, so no TRC estimate is provided as shown in the table below.

Program ID	Program Name	Program Category	Forecasted TRC
			Year 2019
SCE-13-SW-008F	National and International Standards	Non-Resource	N/A

Expanded Programs (By More Than 40 Percent Change in Funding)

1. Residential Direct Install (SCE-13-TP-024)

Residential Direct Install is a cost-effective program designed to provide comprehensive EE measures to residential customers and enhance the EE knowledge and program participation of the residential market segment in an effort to drive them to undertake deeper EE activities and retrofits. Funding for this program increased by greater than 40% due to the increase of potential high TRC projects that will be completed in 2019. In addition, this program has an increased budget due to its cost-effectiveness when compared with other portfolio offerings. No significant program modifications are proposed for 2018; however, SCE will continue to review this and other programs for potential improvements to cost-effectiveness.

2. Enhanced Retro-commissioning (SCE-13-TP-021)

The Enhanced Retro-commissioning Program provides comprehensive IDSM solutions for customers by using advanced analytical tools to identify retro-commissioning opportunities in complex buildings, including large commercial offices, hospitals, and resorts. This program has the potential to capture significant cost-effective savings in the future using an NMEC approach. The funding level increased by greater than 40% to ramp-up program activities.

3. Local Government Programs

Local Government Programs provide support to local governments in SCE's service territory in order to identify and address EE opportunities in municipal facilities, take actions that support the California Long-Term EE Strategic Plan (CLTEESP or "Strategic Plan") and increase community awareness of, and participation in, demand-side management opportunities. A key goal of SCE's Local Government Partnerships is to help cities and counties lead by example by addressing EE first in their own municipal facilities. Funding for the following programs has been increased

by greater than 40% to allow for increased activities and participation in these programs:

- Gateway Cities (SCE-13-L-002F)
- Orange County Cities (SCE-13-L-002L)
- Ventura County (SCE-13-L-002Q)
- Western Riverside (SCE-13-L-002R)
- West Side (SCE-13-L-002T)

4. Statewide Codes and Standards

The Statewide Codes and Standards (C&S) Program saves energy on behalf of ratepayers by influencing appliance and building standards and code-setting bodies, such as the CEC and the U.S. Department of Energy (DOE), to strengthen and advance energy efficiency regulations by continuous improvements in and advancement of energy regulations, improving compliance with existing codes and standards, assisting local governments in developing ordinances that exceed statewide minimum requirements, and coordinating with other programs and entities to support the State's ambitious policy goals. The California Energy Commission recently underscored that they will place added focus on the Title 24 Building Efficiency Standards activities that continue to work towards the State's GHG reduction goals and move to a more GHG-based metric that promotes electrification. The Planning and Coordination subprogram will need to plan for additional energy efficiency activities that can support the CEC accordingly. The CEC has indicated a priority for the Title 24 Standards to be better harmonized with the electric grid which will require greater efforts to coordinate with the SCE transmission and distribution organization. In addition, increasing SCE's C&S budget will better align with the overall statewide Advocacy budget in preparation for the transition to the new statewide program model where funding will be based on load and saving allocation will be based on the funding provided by each statewide program administrator.

5. WE&T Connections (SW-13-SW-010B)

The WE&T Connections subprogram promotes energy efficiency and other DSM concepts, as well as energy awareness and green career pathways, through age appropriate education and teacher training at all grade levels from K-12 to postsecondary, as well as through community outreach. While the proposed program budget in this 2019 Advice Letter reflects an increase of greater than 40% from the current 2018 budget, SCE will be shifting funds to increase its 2018 budget as well. Once the fund shift occurs, the resulting budget difference between 2018 and 2019 will likely be less than 40%. Additional budget will be used to incorporate support for workforce standards into training curriculum offered through this program. SCE will continue to look for opportunities to increase the value of this and other non-resource programs.

6. Statewide Emerging Technologies Program (ETP)

The statewide Emerging Technologies Program (ETP) helps to bring new technologies and savings opportunities to the California IOUs' EE Portfolios. As the program administrators transition to the new statewide administration and third party model, ETP anticipates that additional funding is needed in several key areas including: developing a new statewide emerging products database and intake process; developing and executing the third party solicitations and associated documentation; developing the required Technology Focused Pilots (TFP); and, establishing a new quality management function associated with the new statewide and third party implemented program model.

In addition, ETP placed a number of projects on hold that were previously slated to be launched and committed under the 2018 budget due to uncertainty earlier in the year regarding the overall 2018 EE budget and other contracting delays. Some of these projects are now scheduled to begin in 2019, for which there are already negotiated scopes of work and in some cases signed letters of commitment. In late 2017 and into 2018, ETP also signed a record number of letters of commitment with partners for proposed projects associated with the California Energy Commission's Electric Program Investment Charge (EPIC) Program solicitations and Department of Energy solicitations. The signed letters of commitment are associated with key focus areas for SCE and the State of California, including ZNE and GHG reduction efforts. ETP would like to ensure that there is enough budget in 2019 to meet our commitments and to help transition to the new statewide and third party model.

Reduced Programs (By More Than 40 Percent Change in Funding)

1. Nonresidential HVAC Program (SCE-13-SW-002F)

The Nonresidential HVAC Program is a statewide program that implements a comprehensive set of strategies to promote high efficiency HVAC equipment and high quality installation and maintenance. Market penetration and associated budget and savings projections are significantly diminished due to impacts from a reduction in cost-effective measures, as well as a scarcity of equipment in the market that meet DEER high efficiency tier eligibility requirements. Due to these impacts, SCE has projected a reduced budget for this non-cost-effective statewide program.

2. Industrial Deemed Energy Efficiency Program (SCE-13-SW-003C)

The Industrial Deemed Energy Efficiency Program offers eligible business customers incentives that encourage common, standardized EE equipment retrofits. Deemed retrofit measures have fixed incentive amounts per measure unit and are intended for projects that have well defined energy and demand savings. SCE has seen reduced activity in this area in recent years. This can be attributed to reduced measure availability and decreased customer interest. The budget reduction reflects the current forecast of project commitments for 2019.

3. Agriculture Deemed Energy Efficiency Program (SCE-13-SW-004C)

The Agriculture Deemed Incentive Program offers eligible agricultural customers incentives that encourage common, standardized EE equipment retrofits. Deemed retrofit measures have fixed incentive amounts per measure unit and are intended for projects that have well defined energy and demand savings. SCE has seen reduced activity in this area in recent years. This can be attributed to reduced measure availability and decreased customer interest. SCE is reducing the 2019 budget given the reduced level of activity.

4. Lodging Energy Efficiency Program (SCE-13-TP-005)

The Lodging Energy Efficiency Program (LEEP) is a comprehensive EE retrofit program that delivers multi-measure retrofits and retro-commissioning to small, medium, and large lodging facilities. The Program provides an integrated approach to EE that is specifically tailored to the hotel and motel market segment, including spas and resorts, within SCE's service territory. The program also seeks out DR opportunities in this market segment. In 2019, SCE will begin to ramp down existing third-party programs and transition to new third-party program designs as part of SCE’s third-party solicitation effort. The program will continue to be funded to complete committed projects in the pipeline as of the end of 2018.

5. Comprehensive Chemical Products (SCE-13-TP-009)

The Comprehensive Chemical Products Program delivers electric energy savings and demand reduction for the chemical and allied products, transportation equipment manufacturing, and beverage industries throughout SCE's service territory. In 2019, SCE will begin to ramp down existing third-party programs and transition to new third-party program designs as part of SCE's third-party solicitation effort. The program will continue to be funded to complete committed projects in the pipeline as of the end of 2018.

6. Comprehensive Petroleum Refining (SCE-13-TP-010)

The Comprehensive Petroleum Refining program targets all the major petroleum refineries and petroleum product manufacturers in SCE's service territory to produce long-term, cost-effective electrical energy savings. The program achieves this goal by implementing a comprehensive set of calculated and deemed approaches to address every major electrical operation within the oil refining and petroleum manufacturing industry. In 2019, SCE will begin to ramp down existing third-party programs and transition to new third-party program designs as part of SCE's third-party solicitation effort. The program will continue to be funded to complete committed projects in the pipeline as of the end of 2018.

7. Oil Production (SCE-13-TP-011)

The Oil Production program targets oil production facilities in SCE's service territory with the goal of producing long-term, cost-effective electrical energy savings by replacing or retrofitting existing motor and pumping systems with more efficient systems. In 2019, SCE will begin to ramp down existing third-party programs and transition to new third-party program designs as part of SCE's third-party solicitation effort. The program will continue to be funded to complete committed projects in the pipeline as of the end of 2018.

8. Local Government Programs

Local Government Programs provide support to local governments in SCE's service territory in order to identify and address EE opportunities in municipal facilities, take actions that support the California Long-Term EE Strategic Plan (CLTEESP or "Strategic Plan") and increase community awareness of, and participation in, demand-side management opportunities. A key goal of SCE's Local Government Partnerships is to help cities and counties lead by example by addressing EE first in their own municipal facilities. However, funding for the following programs has been reduced to align with a decrease in opportunities projected for 2019.

- Kern County (SCE-13-L-002K)
- San Joaquin Valley (SCE-13-L-002N)
- South Bay (SCE-13-L-002O)

- South Santa Barbara (SCE-13-L-002P)
- High Desert Regional (SCE-13-L-002S)
- North Orange County (SCE-13-L-002V)
- County of Riverside (SCE-13-L-003D)
- County of San Bernardino (SCE-13-L-003E)
- State of California (SCE-13-L-003F)
- UC/CSU Energy Efficiency (SCE-13-L-003G)

Attachment F
Near Term EM&V Activities Identified

Near Term EM&V Activities Identified for the Additional Budget Request

1. Market Assessments for Baseline and Industry Standard Practice

SCE agrees with the Commission's perspective as laid out in this section of D.16-08-119:

We also agree with the CEEIC's contention in its EM&V comments that broader ISP studies should be used as an approach to market assessment. How these studies should be designed and carried out should be clarified in the revision to the existing ISP Guidance Document and any associated EM&V plans. (p.41)

A key outcome of such studies is the overall determination of the appropriate baseline for Accelerated Replacement/Early Replacement deemed measures, which appears to be a new requirement. Determining customer and project characteristics for upstream or midstream deemed programs is by necessity data intensive. Whereas a direct install program delivery model allows for these characteristics to be identified at installation, upstream or midstream programs will require market studies. SCE views this deemed measure research program as the analog of the custom industry standard practice research. Such research is better suited for a formal market study research program, guided by a market study PCG group.

2. Market and Customer Studies to Support Metrics Reporting and Market Transformation

Studies will also be needed to support portfolio metrics reporting where gathering data through program implementation is not feasible or readily available (e.g. square footage, customer satisfaction, or other data that are not captured by PAs or implementers). Appropriate data on market indicators can be gathered in these studies to also support strategic market transformation programs to track and monitor achievement of desired market responses to inform entry and exit strategy for such programs.

3. Customer Segmentation Research

Improving the performance of EE programs is a major priority for SCE. In order to do so, it is essential to have a strong understanding of whom to target and how to target (e.g. channels, messaging, incentives, etc.). An in-depth psychographic and behavioral segmentation of SCE's customer bases will allow SCE to uncover the attitudinal and behavior drivers that impact the customer decision making process and inform SCE and its third party implementers to design best-in-class EE programs tailored to customer needs and communicated through the most impactful channels with the most impactful messages.

4. Normalized Meter-Based Consumption (NMEC) Analysis

Meter-based programs, such as NMEC, will provide additional avenues to attain capacity, energy savings, and GHG goals of California. However, support for this effort will require increased EM&V resources to realize the potential. NMEC projects and programs will require substantial modeling and analytic efforts to ensure that grid savings and emission reductions are well supported.

In summary, SCE requests incremental funding to enhance the value proposition of energy efficiency for SCE and other statewide policymakers and stakeholders. SCE looks forward to coordinating with Energy Division Staff, the other PAs, and stakeholders as we update the EM&V Research Roadmaps to incorporate the aforementioned research activities that are anticipated to bring forth the benefits that good research produces.