Summer Reliability Program

Trade Professional Roll Out

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Presented June 6, 2022 Updated August 16, 2022



SCE's Summer Reliability Program (SRP) offers a new Energy Efficiency approach to support 2022 & 2023 Grid Reliability

- Governor Newsom issues an Emergency Proclamation to free up energy supply to meet demand during extreme heat events and wildfires that are becoming more intense and to expedite deployment of clean energy resources for 2022 and 2023.
- CPUC authorized (D.21-12-011) up to \$150M in funding for the electric IOUs to develop and deploy a two-year local Market Access Program (MAP) across each IOU service territory.
- The program is designed to facilitate and promote **expedited installation and review** of energy efficiency measures that are incremental to the existing EE portfolio.
- SCE, Trade Professionals and Customers will need work together to achieve the demand reduction targets in the program.

| 2022 – 2023 Budget | | | | | |
|--------------------|-----------|---------|--|--|--|
| SCE | SDG&E | PG&E | | | |
| ~\$60 M | ~\$22.8 M | ~\$63 M | | | |

| Metric | 2022 | 2023 |
|---------------------------------------|--------|--------|
| Peak, Net Peak kW (4:00 – 9:00 PM) | ~1,190 | ~6,820 |

Summer Reliability Program Approach

Population Normalized Metered Energy Consumption (NMEC) Platform which includes:

- Participation Criteria for "TradePros" to be able to submit projects
- Performance based Compensation Structure
- Program Level M&V Plan to identify customer groups who can participate
- Population NMEC Model that Measures Savings after installation
 - An Estimation Tool will is available within the application to estimate energy savings and compensation to reserve funds

*More information on Population NMEC is available in the California Public Utilities Commission Rulebook for Programs and Projects Based on Normalized Metered Energy Consumption (CPUC NMEC Rulebook V2.0).

Summer Reliability Program Approach continued

Trade Professional (TradePro, vendor, implementer, ESCO, contractor, etc.) Model

- TradePros will develop projects to submit through a simplified application process for expedited review
- Performance compensation paid to the TradePro

Customer Benefits

- Simplified participation process with program submittal handled by the TradePro
- SRP does not follow the ex-ante process
 - No CPUC review
 - o Code, Standard Practice and DEER (Database for Energy Efficiency Resources) baselines are not applicable
 - Residential and Commercial whole building measures
 - Each measure must be submitted on the application with specified technical requirements
 - Customer load shape and measure EULs (effective useful life) will affect compensation
- Projects submitted through a simplified process for expedited review to allow for **quick installation**
- SRP was developed for projects with reduced scope, short installation timeframes and high volume

Compensation Structure

Performance Only

- For each project group, SCE will issue payment based on three 4-month periods (n=3 total payments).
- Each payment is estimated to be equal to ~65% of the confirmed Total System Benefit (TSB) based on ex-post savings measured at the meter and the weighted average EUL of the projects in the group (the longer the EUL, the greater the savings potential).
- Compensation = TSB x Discount Factor + Peak kW Kicker
 - o TSB: The <u>electrical</u> energy benefits realized during Peak, Net-Peak and Non-Peak hours.
 - ➤ Peak hours are 4-7 PM, Net-Peak hours are 4-9 PM
 - Monday Friday (business day, non-holiday)
 - June September
 - ➤ Non-Peak hours are all other hours January December
 - Discount Factor (~35%): An adjustment to the TSB dollar value, including program administration costs, reporting, engineering, M&V costs, Net to Gross, and any reductions when analyzed against the Population (NMEC) group.
 - o Projects will be compensated based on the TSB with **Peak and Net Peak savings being weighted more heavily**.

Summer Reliability Customer Eligibility Requirements (additional requirements apply)

- The customer is **individually metered** and has adequate **pre-installation billing history** on the revenue (billing) meter.
- Customers must pay the Public Purpose Program (PPP) surcharge on the meter in which the project is being proposed.
- Customers with distributed generation (solar, battery storage, etc.) are ineligible.
 - SCE may also elect to flag sites as ineligible based on recent energy efficiency participation if the recent project is expected to confound the Population NMEC measurement.
- Tenants/Renters must have **written authorization** from the property owner or property management company to implement the upgrades.
- The customer must agree to provide **all required documentation** and **access to the facility** for project-related audits, inspection or data gathering by SCE or by the CPUC.
- > Commercial energy efficiency projects must **reduce at least 5%** of the customer's metered annual electrical usage at the project site.
- > Residential energy efficiency projects must reduce at least 3% of the customer's metered annual electrical usage at the project site.
- ✓ Trade Professionals and their contractors and/or subcontractors are responsible for, at their own expense, obtaining and maintaining licenses and permits required by any federal, state, local, or other relevant governing or regulatory bodies (including but not limited to Title 24 permits) needed to perform program work. As such, proof of permit closure is required for all projects.

Target Customer Segments and Measure Opportunities

Market Sectors

- SCE analyzed certain market sectors which are expected to have a better correlation with a Population NMEC measurement methodology, to reduce implementation risk, and provide an opportunity for expedited installations.
- This list is not exhaustive and other sectors may be added.
 - o Per Decision 16-08-019 Industrial NMEC projects **are not** eligible outside of SEM (strategic energy management)

Commercial

- Supermarkets and Other Grocery (except Convenience) Stores, Other Grocery and Related Product Wholesalers
- Limited-Service Restaurants (fast food)
- Department Stores
- Drugs and Druggists' Sundries Wholesalers, Pharmacies and Drug Stores
- New Car Dealers
- Gasoline Stations with Convenience Stores, Convenience Stores
- Warehouse Clubs and Superstores
- Home Centers

Indoor Horticulture

- LED Lighting
- HVAC

Residential

- Single Family Home
- Mobile Homes (manufactured housing)

- LED Lighting
- HVAC
- Refrigeration measures
- Retrocommissioning

- LED Lighting Whole House Fans VSD Pool Pumps
- Evaporative Cooler (offset) Condenser ECM Fan Motor

High Level M&V Plan

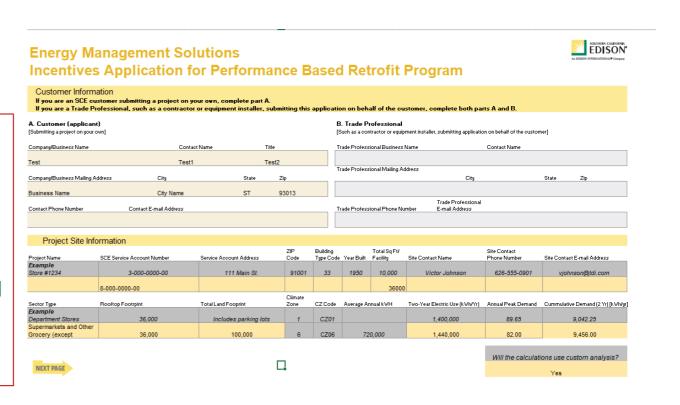
| M&V Consideration | Planned Approach | | | |
|---|---|--|--|--|
| Settlement (Comparison) Group Definition (Population) | All projects completed by an implementation contractor within a four-month period. The three periods are defined as: • February through May • June through September • October through January | | | |
| Analytical Method | Individual premise regression with synthetic control profiles as an independent variable. The model used is a seasonal Time of Week Temperature (TOWT) model that includes 168 hour-of-week dummy variables, a temperature spline, and one or more granular profiles which act as a synthetic control. The profiles will be based on a segmentation scheme that is still being finalized. | | | |
| Contractor | SCE has retained a third-party evaluator to develop and implement this M&V plan and build out the settlement platform | | | |
| Data Collection Strategies (requirements, similar to site level NMEC) | Upfront capture of typical efficiency attributes: • Project location (contract number) • Project start and completion date • Equipment type, quantity, capacity, and specifications • Project cost • Upfront incentives Back-end consolidation of participant meter data, performance estimates, and incentive payments | | | |
| Performance Metrics | Aggregate peak kW savings Annual kWh savings Weighted Average EUL Total System Benefits | | | |
| Weather normalization | Settlement and reporting will be based on actual ex-post measurement of savings during the 2022-2023 observation period without weather normalization. Regression models developed using data from the baseline period will be used to predict population loads during the performance period. | | | |
| Total System Benefits Calculation | 2021 ACC values by climate zone averaged by (1) climate zone (2) year (3) month (4) business/non-business day. | | | |

Application

Section 1

Walkthrough of SRP application and Calculator.

- User enters required project information
- Calculation specific required information is highlighted in yellow
- Custom analysis inclusion option available





Measure Application Option

- Two options for entering measures.
 - Using the Calculation Tool
 - Providing Custom Entry
 - Separate calculations required
- Tool provides weighted EUL and incorporates TSB projects for estimating the compensation.

Program Savings Estimator



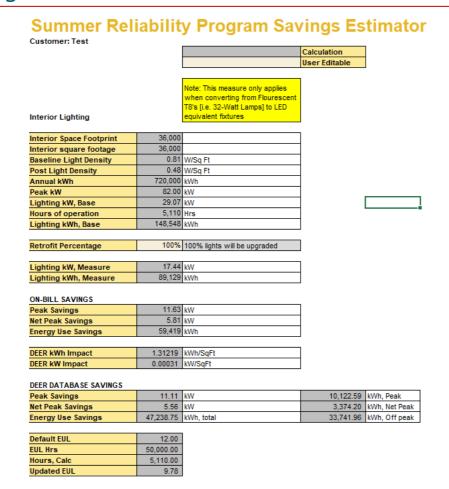
| | Off Peak kWh Savings | Peak Demand Savings | Peak kWh Savings | Met Peak Demand Saving | Net Peak kWh Savings | Total kWh Savings | EUL |
|-----|----------------------|---------------------|------------------|-------------------------------|----------------------|-------------------|-------|
| | 33,742 | 11.11 | 10,122.59 | 5.56 | 3,374.20 | 47,238.75 | 9.78 |
| | 4,486 | 0.00 | 0.00 | 0.00 | 897.20 | 5,383.18 | 11.42 |
| | 54,083 | 1.28 | 18,027.69 | 0.64 | 6,009.23 | 78,120.00 | 3.00 |
| | 3,723 | 0.27 | 587.91 | 0.27 | 391.94 | 4,703.28 | 3.00 |
| | 8,130 | 4.43 | 4,065.23 | 2.21 | 1,016.31 | 13,212.00 | 15.00 |
| | 9,785 | 2.24 | 1,545.00 | 2.24 | 1,030.00 | 12,360.00 | 15.00 |
| | 6,679 | -2.33 | 2,226.46 | -1.16 | 742.15 | 9,648.00 | 9.00 |
| ngs | 120,629 | 17.00 | 36,575 | 9.75 | 13,461 | 170,665 | 7.28 |
| | 16.8% | 20.72 | 5.12 | 11.92 | 1.92 | 23.72 | |

| pe | Off Peak kWh | Peak Demand Savings | Peak kWh | Net Peak Demand Saving | Net Peak kWh | Total kWH Saved | EUL |
|-------|--------------|---------------------|----------|-------------------------------|--------------|-----------------|-------|
| llers | 6,679 | -2.33 | 2,226 | -1.16 | 742 | 9,648 | 9.00 |
| | | | | | | 0 | 12.00 |
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| | | | | | | 0 | 12.00 |
| rings | 6,679 | -2.33 | 2,226 | -1.16 | 742 | 9,648 | 9.00 |



Estimation Tool Measure Customization

• When using the Tool, additional tabs will be activated as measures are selected for further customization.





| Lighting Schedule Hour | Lights On? |
|------------------------|------------|
| 12:00 AM | |
| 1:00 AM | |
| 2:00 AM | |
| 3:00 AM | |
| 4:00 AM | |
| 5:00 AM | |
| 6:00 AM | Yes |
| 7:00 AM | Yes |
| 8:00 AM | Yes |
| 9:00 AM | Yes |
| 10:00 AM | Yes |
| 11:00 AM | Yes |
| 12:00 PM | Yes |
| 1:00 PM | Yes |
| 2:00 PM | Yes |
| 3:00 PM | Yes |
| 4:00 PM | Yes |
| 5:00 PM | Yes |
| 6:00 PM | Yes |
| 7:00 PM | Yes |
| 8:00 PM | |
| 9:00 PM | |
| 10:00 PM | |
| 11:00 PM | |
| TOTAL Daily Hours | 14 |
| Peak Hours | 3 |
| Net Peak Hours | 1 |

Next Steps

- An external facing program page is available at <u>SCE.com/SRP</u>
- If you are not currently registered in SCE's Trade Ally Community (TAC), you may go to:
 - https://sce-trade-ally-community.force/com/tradeally/s/trade-professional-overview
- Program materials (Program Manual, Application, etc.) have been posted to the TAC.
 - https://sce-trade-ally-community.force/com/tradeally/s/trade-professional-resources
 - o It is the Trade Professionals responsibility to ensure they are using the most up to date documentation as posted on TAC prior to developing a project and submitting an application to ensure the project is in compliance with the most recent program requirements.
- If you are already registered in the TAC and have not reviewed and agreed to the most recent Terms and Conditions, you will have to do so prior to application submission.
- Prior to submitting an SRP application, TradePros should ensure the customer's project is eligible for enrollment. TradePros must also notify the Trade Ally Community team via <u>TradeAllyConnect@sce.com</u> when they are ready to submit their first project so additional "live" training can be completed prior to project submission.

Contact Information and Questions

Contact

- <u>SummerReliabilityProgram@sce.com</u>
- 800-736-4777

