

# Solutions Directory

**2013–2014**

# Providing Solutions

**As You Think of Energy Management Opportunities review this Solutions Directory (Directory).**

It is a reference guide that lists eligible equipment (solutions) and qualification criteria for incentives available to customers through SCE's 2013–2014 Express Solutions and Customized Solutions programs and 2012-2014 Automated Demand Response Technology Incentive program.

The Directory is updated regularly. Between updates, please refer to the "What's New" section of SCE's Energy Management Online Application Tool home page ([sceonlineapp.com](http://sceonlineapp.com)) for the most up-to-date solutions and qualification criteria.

## Benefits

Our solutions provide energy and money saving opportunities through financial incentives, bill credits, and lower electricity bills that higher-efficiency equipment may bring.

- Through the **Express Solutions** and **Customized Solutions** programs, SCE customers receive financial incentives for replacing old equipment or upgrading to high-efficiency equipment. With energy-efficient equipment, customers also benefit from permanent load reduction energy savings, which could translate into lower electricity bills.
- Through **Automated Demand Response Technology Incentives**, business customers may receive financial incentives for installing equipment that automates electrical load reduction during demand response events.
  - Customers are eligible for bill credits or reduced rates when participating in a Demand Response program(s).

The benefits don't end there. For 2013-2014, we are offering a Comprehensive Project Bonus of up to 20 percent of your project application's total approved Express and Customized Solutions incentives. Read more about this bonus in What's New (pages 3-4).

## Working Together for Energy Savings

We can help you get the most out of every energy management project. Our expert energy advisors can use information about your business space, your energy management goals, your operating and capital cost expectations, etc., to collaborate with you to develop comprehensive, cost-effective projects that meet your energy management needs.

Call 1-800-736-4777 to be connected to your SCE Account Manager or with a representative who can help.

## How to Apply

Apply for incentives using our Energy Management Online Application Tool ([sceonlineapp.com](http://sceonlineapp.com)). It provides a streamlined, step-by-step process that collects project information and documentation, calculates energy savings and incentives, and electronically submits your application for SCE review and approval. Throughout the application process, built-in validations will alert you if any issues, such as missing or invalid information, arise. Read more on page 7.

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▲ Indicates a new technology category, an updated qualifying criteria, and/or updated documentation requirement.

# What's New

## Updates to Express Solutions

The November 2014 update to SCE's Solutions Directory includes several important updates to Express Solutions. All changes are effective November 15, 2014.

There are six new Express solution codes for integral LED lamps, including PAR20s and candelabras (page 18).

There have also been revisions made to the eligibility criteria for several existing Express Solutions, including reduced wattage T5 lamps (page 11).

## Updates to Customized Solutions

SCE has created a new Customized solution code for LED Linear Troffer Volumetric Retrofit Kits: LT-74896 (page 21). The incentive for this new solution code is set at the targeted lighting rate (\$0.08/kWh + \$150/kW).

In order to qualify for LT-74896, LED retrofit kits must meet the following criteria:

1. The product must be on the Design Lights Consortium (DLC) Qualified Products List (QPL).
2. The product must have integrated dimming capability to enable compliance with Title 24 2013 standards. **Note:** *Many, if not most, kits are dimmable – check manufacturer specifications to be certain.*
3. The product must be a volumetric replacement for linear fluorescent systems (i.e., including fully integrated lens replacement as part of full kit). All existing interconnects, sockets, and ballasts must be removed from the existing fixture, in accordance with Title 24 2013. **Note:** *At this time, retrofit kits for HID fixtures and strip- or tube-based products will not qualify.*

### **New Retrocommissioning Section**

The November 2014 update to SCE's Solutions Directory now includes a section describing its Retrocommissioning (RCx) offering (page 72). The section explains basic program policies and procedures and lists currently eligible Retrocommissioning solution codes. Additional information and resources are available online at [sce-rcx.com](http://sce-rcx.com).

### **New Permanent Load Shifting (PLS) Section**

Provides incentives for customer that shift electricity from on-peak to off-peak periods:

- Technology: Thermal Energy Storage only (store water or ice and use it to cool your facilities during on-peak periods)
- Incentives: Up to \$875/kW cooling load (tons) shifted
- Target: Customers with heavy air conditioning use and high costs benefit from the PLS program

### **Updates to Automated Demand Response (Auto-DR)**

Effective September 1, 2014 SCE's Automated Demand Response Technology Incentive program began accepting applications only through SCE's online application tool (OAT). This is the same tool that is being used for SCE's Core Energy Efficiency programs.

- This change:
  - decreases application processing times;
  - and increases the accuracy of submissions
- To assist with this change, Auto-DR conducted a training webinar:
  - The training was recorded and is available on the CAA Support website
  - [www.caasupport.com/training/autodr-using-online-application-tool-autodr-solutions](http://www.caasupport.com/training/autodr-using-online-application-tool-autodr-solutions)
- For Online Application Tool support, contact SCE's Customer's Authorized Agent technical support:
  - [www.caasupport.com](http://www.caasupport.com)

# What's New

## The Impacts of Title 24 Update on Express and Customized Solutions

On July 1, 2014, an updated version of California's Title 24 energy code (v2013) will take effect. Energy efficiency measures that become "code" or "standard" are typically not eligible for utility incentives. As such, the update to Title 24 will have an impact on many of SCE's Express and Customized Solutions. What follows is a breakdown of these changes.

Incentives are no longer available for many technologies that were previously eligible through Express Solutions, including:

- Interior Pulse Start Metal Halide Fixtures
- Exterior Pulse Start Metal Halide Fixtures
- Integrated Occupancy Sensors for Interior Lighting Fixtures
- Exterior Lighting Photocell Control
- Exterior Lighting Timeclock Control

The qualifying questions for other Express Solutions have been changed so that incentives are only available for projects that do not trigger full Title 24 code compliance, including:

- Ceiling and Wall-mounted Occupancy Sensors
- Bi-level Fluorescent Fixtures
- Kitchen Exhaust Hood Ventilation Control
- VSD Controls for HVAC Fans and Pumps

Calculating energy savings for many Customized Solutions requires reference to Title 24 as the source for the code baseline. Any Incentives Application submitted on or after July 1, 2014 should use the updated version of Title 24 to set the code baseline. Examples include:

- Interior Lighting Fixtures
- Chiller Replacement
- Cooling Tower Replacement

Customized Solutions for many common controls upgrades are now eligible for incentives only when they are added to existing equipment or otherwise do not trigger full Title 24 code compliance. Examples include:

- Occupancy Sensor Lighting Control
- Daylight Harvesting Lighting Control
- VFD Controls for HVAC Fans, Compressors and Pumps
- VFD Controls for Refrigeration Fans and Compressors
- VFD Controls for Air Compressor Systems
- Air Curtains for Refrigerated Warehouses

Solutions Codes with incentive levels or qualifying criteria that have been revised since the last edition of the Solutions Directory are displayed in a **red font** to highlight the change.

If you are an SCE customer, please contact your Account Manager for assistance in understanding the impact the Title 24 update may have on your project. If you are a Customer's Authorized Agent (CAA), you may reach out to the Technical Support Team for assistance at [CAASupport-Projects@sce.com](mailto:CAASupport-Projects@sce.com).

### **Clarifying Use Express and Customized Solution Codes**

As of July 1, 2014, SCE does not accept the use of Customized Solutions when a project is eligible for incentives through Express Solutions. In order to make this prioritization clear to applicants, SCE has retired a number of existing Customized Solution Codes that had some overlap with an Express Solution Code.

Even with this removal, it is important to note that the use of the Customized Solutions is not limited to the Solution Codes listed in the Solutions Directory. If you have a project scope that is not covered by an existing Express Solution Code or Customized Solution Code and is not listed as an ineligible technology in Table 1-4 in the Statewide Customized Manual for Business, you can submit an Incentives Application using either NA-30864 Other non-lighting or NA-28631 Other lighting. SCE staff will review the application to decide whether the project scope is eligible for incentives, and if so, will assign a Solution Code and incentive level.

Business customers with questions about the appropriate Solution Code for their proposed project should contact their SCE Account Manager for assistance. Customer's Authorized Agent's (CAAs) with questions about this policy may reach out to the Technical Support team for assistance at [CAASupport-Projects@sce.com](mailto:CAASupport-Projects@sce.com).

### **Comprehensive Project Bonus**

In 2013-14, SCE business customers participating in Express Solutions and/or Customized Solutions may be eligible to receive a bonus beyond the incentive rates listed in the Solutions Directory.

The Comprehensive Project Bonus (Bonus) is a separate, additional payment equal to 20% of an Incentives Application's total approved incentive, including Express, Customized, and Retrocommissioning Solutions. The Bonus is capped at \$25,000 per billing address and is not subject to the project cost caps used to limit incentive payments.

In order to be eligible for the Bonus, the applicant must earn a minimum of three (3) credits in the Comprehensive Project Bonus Checklist on the following page. A maximum of one (1) credit can be earned in each of the checklist's eight (8) categories.

In order to earn a credit for a category in the End-Use Technology section of the checklist, the Incentives Application must include an associated Solution Code from either Express or Customized Solutions. Review the Solution Codes associated with each End-use Technology category by downloading the full list at [sceonlineapp.com/Docs.aspx?dt=2](http://sceonlineapp.com/Docs.aspx?dt=2).

In order to earn a credit for a category in the Other Demand-Side Management Activities section of the checklist, the applicant must meet the specific criteria listed for each category and attach the required documentation.

# What's New

## Comprehensive Project Bonus Checklist

End-use Technologies	Included in Application	Equivalent to $\geq 10\%$ of Approved Incentives	Credits Earned
Lighting			
HVAC			
Process			
Refrigeration			
Advanced Controls			

Other Demand-Side Management Activities	Eligibility Criteria Met	Documentation Included	Credits Earned
Retrocommissioning Program Participation <sup>1</sup>			
Demand Response Program Enrollment <sup>2</sup>			
Packaged HVAC Unit Installation <sup>3</sup>			

<sup>1</sup> Incentives Application must include at least one solution code from the 2013-14 Retrocommissioning (RCx) program.

<sup>2</sup> Customer site must enroll in a qualified Demand Response Program between January 1st, 2013 and December 31st, 2014. Eligible programs include: Aggregator Managed Portfolio, Demand Bidding, Capacity Bidding, Real Time Pricing, Summer Advantage Incentive, Summer Advantage Incentive Lite, and Summer Discount Plan.

<sup>3</sup> Customer must have proof of payment for a qualified, efficient-packaged HVAC unit installed at the same site between January 1st, 2013 and December 31st, 2014. List of eligible equipment is available at [sceonlineapp.com/Docs.aspx](http://sceonlineapp.com/Docs.aspx).

## Get Started

Call 1-800-736-4777 to be connected to your SCE Account Manager or another qualified representative who can help answer your questions and help you get started with your energy management project.

## Applying for Incentives

The best (and preferred) way to apply for incentives is to use the Online Application Tool at [sceonlineapp.com](http://sceonlineapp.com). The Online Application Tool offers several benefits that save time and decrease the risk of your application being rejected (or held) for missing or incorrect information. A summary of these benefits is offered below.

### 1. Most Updated Solutions List

The Tool's flexibility allows SCE to readily make updates, making it the go-to source for up-to-date solution eligibility and incentive information.

### 2. A streamlined, step-by-step approach

The Tool's Application Wizard shows you where you are in the process through an easy-to-follow graphic at the top of the screen.

### 3. Built-in validations of entered data

The Tool will flag any fields in which information is missing or not eligible (e.g., an invalid installation date). Also, many of the fields have drop down menus that include only eligible responses. This feature results in fewer rejected applications due to incomplete or inaccurate information.

### 4. Built-in calculators for many Customized Solutions

The Tool is capable of calculating the energy and demand savings for a number of Customized Solutions, including dual baseline calculations for solutions requiring the replacement of equipment that has a remaining useful life greater than one year. The Tool's calculations can be used in place of developing an energy model or engineering calculations. This can save you time and expedite the SCE engineering review process.

### 5. Built-in Comprehensive Project Bonus Eligibility Checklist

As solutions are included in the application, the Tool will track Comprehensive Project Bonus eligibility and alert you if any requirements are not met.<sup>2</sup>

### 6. E-signature process

You can electronically sign and submit applications when they are complete.

If you are unable to apply online, you may request a paper application by emailing [EMSApplication@sce.com](mailto:EMSApplication@sce.com) or calling 1-800-736-4777.

<sup>2</sup> The Tool will not track participation in the Retrocommissioning or Price Response Demand programs, but will let you know what information you must provide with your application.

# Energy Efficiency

## Incentives

# Apply

### EXPRESS SOLUTIONS

#### What is an Express Solution?

Express Solutions offer companies a quick way to receive an incentive for qualifying Energy Efficiency projects. These projects are associated with a variety of standard or high-volume equipment or technology such as typical lighting, air conditioning and food service improvements projects. Incentives are paid on a per-unit basis (e.g., lamp, fixture, horsepower).

Incentive information for qualifying equipment is located on the following pages.<sup>1</sup>

#### How do I qualify for an Express Solution?

Express Solutions eligibility requirements are located in the Appendix on page 98, and online at [sce.com/express\\_solutions](http://sce.com/express_solutions).

Answers should be “Yes” to every applicable question in an Express Solutions category to be eligible for that incentive. If you don’t know the answer to the question, please contact your SCE Account Manager. If you don’t know who your SCE Account Manager is, please call 1-800-736-4777 for assistance.

#### How do I apply for an Express Solution?

Use the diagram to the right to help guide you through the process.

Itemized incentives do not require a pre-installation inspection of existing equipment unless it is an On-Bill Financing project or it is deemed necessary by the Program Manager. Projects qualifying for more than \$15,000 in incentives, or sites that have received an incentive in the past for similar equipment, will require a post-installation inspection of the new equipment. Projects under \$15,000 will be subject to a random post-installation inspection.

<sup>1</sup> SCE pays up to 100% of the individual equipment cost for qualifying standard equipment incentives. For complete terms and conditions, go to [sce.com/solutions](http://sce.com/solutions).

Fill out the appropriate sections of the Incentives Application using the Solution Codes, Solution Descriptions and Incentive Amounts listed on the following pages.

Applications for Express Solutions must be submitted for qualifying equipment that is already installed, unless it also includes Customized Solutions or On-Bill Financing (OBF).

Return the completed application to SCE. If your project installation is already complete, please include the required supporting documentation (invoice, manufacturer’s specifications product sheet).

If your project installation is already complete, upon approval of your application, SCE will issue an incentive check.

If your project installation will be completed after you submit the application, SCE will send you an Installation Report. After your project is completely installed, submit the Installation Report with the required supporting documentation to receive your incentive check.

We encourage you to use the Online Application Tool available on [sce.com/solutions](http://sce.com/solutions) to complete and submit your application.

For more information, including a manual alternative to complete and submit your application, refer to page 108.

## CUSTOMIZED SOLUTIONS

### What is a Customized Solution?

Customized Solutions are for all other eligible solutions or technologies that are not part of the Express Solutions offerings. Incentives are paid on a project-by-project basis and actual kWh and kW savings. SCE pays up to 50% of the project's cost — labor, material and equipment — based upon fixed incentive rates for actual energy (kWh) and demand (kW) savings.

Customized Solutions information is located in the tables on the following pages.

### How do I qualify for a Customized Solution?

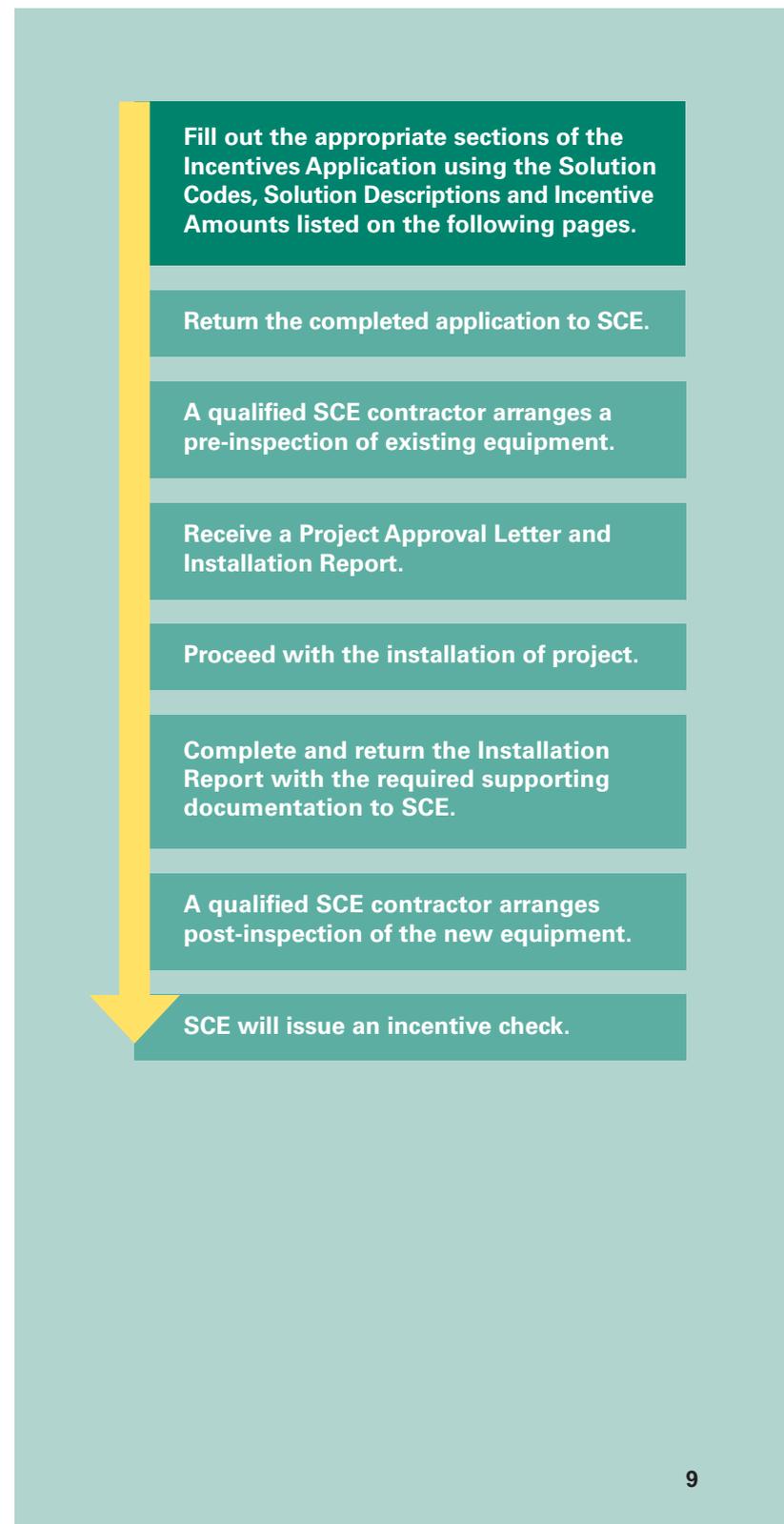
Customized Solutions eligibility requirements are located in the Appendix on page 102, and online at [sce.com/customized\\_solutions](http://sce.com/customized_solutions).

### How do I apply for a Customized Solution?

Use the diagram to the right to help guide you through the process.

**For most solutions, the Online Application Tool on [sce.com/solutions](http://sce.com/solutions) can be used to calculate energy savings and to submit the required calculations for your project.**

Actual energy and demand savings are calculated on a project-by-project basis. Pre- and post-inspections are required, and monitoring and verification of installed equipment may be required.



# Energy Efficiency

## Incentives

### LIGHTING

#### GENERAL LIGHTING ELIGIBILITY REQUIREMENTS

- All new lighting fixtures, retrofit kits, and components must carry the appropriate, designated Underwriters Laboratory (UL) or Edison Testing Laboratory (ETL) label.
- Customer should make sure that new lighting equipment is compatible with existing equipment and controls.
- When applicable, lighting fixtures must meet existing case and proposed case requirement tables.
- New fixture or lamp wattage must be less than the wattage of lamp being replaced.

#### LINEAR FLUORESCENT

A linear fluorescent lamp or fluorescent tube is a gas-discharge lamp that uses electricity to excite mercury vapor to create useful light.

#### INTERIOR STANDARD T8 LAMP TO REDUCED WATTAGE T8 LAMP RETROFIT

Lamp-only retrofit to a newer generation 4-foot, 80+ Color Rendering Index (CRI) T8 lamp that uses 28 or 25 watts.

##### Express Solution Qualifying Questions

**YES** The answer should be "Yes" to every applicable question in a solution category for a project to qualify for that incentive. If you answer "No" to any question in the Express Solution section, consider a Customized Solution.

Are the new T8 lamps CEE-approved? Approved lamps can be found at <http://library.cee1.org/content/commercial-lighting-qualifying-products-lists> on tab RW Lamp Update. Please refer to the specific tabs.

Are existing 4-foot 32-watt T8 fluorescent lamps being replaced, one for one, with 4-foot 28-watt or 25-watt T8 fluorescent lamps? This incentive applies to lamp-only retrofits. Please refer to the lamp manufacturer specification sheet.

##### Express Solution

SOLUTION CODE	SOLUTION DESCRIPTION FOR LINEAR FLUORESCENT	INCENTIVE	
		\$/unit of measure	
	T8 to T8 reduced wattage interior lamp-only retrofit:		
LT-21844	(1) 48in reduced wattage (28W) T8 linear fluorescent replacing (1) 48in T8 linear fluorescent	\$1.00	/ lamp
LT-97103	(1) 48in reduced wattage (25W) T8 linear fluorescent replacing (1) 48in T8 linear fluorescent	\$1.50	/ lamp

##### Customized Solution

SOLUTION CODE	SOLUTION DESCRIPTION FOR LINEAR FLUORESCENT	INCENTIVE	
		\$/kWh	\$/kW'
	Interior linear fluorescent lighting*:		
NA-28631	Other lighting (not approved for payment)**	\$0.03	\$150

\* Customized Solutions excludes T8 25 and 28-watt reduced wattage lamp and ballast retrofits to existing fixtures.

\*\* This solution code is not approved for payment. Once reviewed, if the technology is eligible, it will be assigned a solution code (which may be new or existing).

Note: A Federal mandate requires standard T8 as the minimum efficiency standard for lighting manufacturing. Thus, as of July 1, 2012, standard T8 is SCE energy efficiency incentives program's lighting basecase. Customers with lower standard lamps and ballasts (such as T12s) who want to achieve energy savings beyond the standard T8 savings, can participate in these lighting solutions.

For complete terms and conditions, go to [sce.com/solutions](http://sce.com/solutions). Please refer to the "What's New" section of the Online Application ([sceonlineapp.com](http://sceonlineapp.com)) for additions, deletions and other changes to solutions and eligibility requirements since the publication date of this document (print or online).

1. kW incentive applies. Refer to the Appendix: Eligibility requirements for incentive qualifications and detailed calculations.

LINEAR FLUORESCENT, CONTINUED

**T8 OR T5 LINEAR FLUORESCENT LAMPS AND ELECTRONIC BALLASTS – GENERAL REQUIREMENT**

Retrofit existing lamp and ballast to a T8 or T5 lamp and ballast.

**Express Solution Qualifying Questions**

**YES** *The answer should be “Yes” to every applicable question in a solution category for a project to qualify for that incentive. The General Requirement Qualifying Questions found on this page are applicable to all T8 or T5 linear fluorescent lamps and ballasts installed as part of a project applying for Express Solutions or Customized Solutions.*

*Note: Effective April 1st, 2010, 4-foot T8 lamps and ballasts must be listed as High-Performance (HP) T8 lamps and HP ballasts, and be listed at <http://library.cee1.org/content/commercial-lighting-qualifying-products-lists>.*

- Are lamps and ballasts being replaced, one for one, with T8 or T5 lamps with electronic, high-frequency (greater than or equal to 20 kHz) ballasts?
- Do the proposed ballasts have a power factor of greater than or equal to 0.90?
- At full light output, do ballasts have a total harmonic distortion of less than or equal to 20%?
- Will programmed start/programmed rapid-start ballasts be used for T5 lamp installations?
- Will T5 lamps being replaced in low bay installations (under 15') provide indirect lighting only? Customers installing T5 lamps for direct lighting in low ceilings should consult a lighting professional to address the possibility of excessive glare.
- Do T8 and T5 replacement lamps and ballasts meet the color rendering index (CRI) and rated lamp life standards listed in the Lamp and Ballast Requirements table? Manufacturer’s specification sheets for lamps and ballasts must be provided.

**LAMP AND BALLAST GENERAL REQUIREMENTS**

LAMP TYPE AND SIZE	BALLAST TYPE	CRI	MINIMUM RATED LAMP LIFE (3 HRS/START)
T8 – 2-foot, 3-foot	Programmed start / programmed rapid-start	≥ 80	24,000 hours
T8 – 2-foot, 3-foot, 8-foot	Instant start	≥ 80	18,000 hours
T5 – All sizes	Programmed start or programmed rapid-start	≥ 82	20,000 hours

Note: A Federal mandate requires standard T8 as the minimum efficiency standard for lighting manufacturing. Thus, as of July 1, 2012, standard T8 is SCE energy efficiency incentives program’s lighting basecase. Customers with lower standard lamps and ballasts (such as T12s) who want to achieve energy savings beyond the standard T8 savings, can participate in these lighting solutions.

For complete terms and conditions, go to [sce.com/solutions](http://sce.com/solutions). Please refer to the “What’s New” section of the Online Application ([sceonlineapp.com](http://sceonlineapp.com)) for additions, deletions and other changes to solutions and eligibility requirements since the publication date of this document (print or online).

# Energy Efficiency

## Incentives

LINEAR FLUORESCENT, CONTINUED

### INTERIOR DE-LAMPING

Eliminating excess lamps per fixture in conjunction with a new T8 or T5 lighting system while maintaining adequate lighting levels.

The following solutions are available for both T8 or T5 Linear Fluorescent Lamps and Electronic Ballasts **and** De-Lamping.

#### Customized Solution

SOLUTION CODE	SOLUTION DESCRIPTION FOR LINEAR FLUORESCENT	INCENTIVE	
		\$/kWh	\$/kW <sup>1</sup>
	Interior linear fluorescent lighting:		
LT-15908	Interior linear fluorescent reflector retrofit kit	\$0.03	<b>\$150</b>
NA-28631	Other lighting (not approved for payment)*	\$0.03	<b>\$150</b>

### T5HO TO T5HO REDUCED WATTAGE INTERIOR LAMP-ONLY RETROFIT

Lamp-only retrofit to a newer generation 4-foot, 82+ CRI T5 high output (T5HO) lamp that uses 47, 49, 50 or 51 watts.

#### Express Solution Qualifying Questions

**YES** The answer should be "Yes" to every applicable question in a solution category for a project to qualify for that incentive. If you answer "No" to any question in the Express Solution section, consider a Customized Solution.

- Are existing 46" 54-watt T5HO fluorescent lamps being replaced, one for one, with 46" 47-watt to 51-watt T5HO fluorescent lamps? This solution applies to lamp-only retrofits.
- Do the T5HO replacement lamps have a CRI rating of 82 or greater?
- Do the T5HO replacement lamps have a lamp life rating of 20,000 hours or greater? All lamps must meet the minimums of rated lamp life at 3 hours/start.

#### Express Solution

SOLUTION CODE	SOLUTION DESCRIPTION FOR LINEAR FLUORESCENT	INCENTIVE	
		\$/unit of measure	
	T5HO to T5HO reduced wattage interior lamp-only retrofit:		
LT-30612	47-51 watts	\$2.00 / lamp	

#### Customized Solution

SOLUTION CODE	SOLUTION DESCRIPTION FOR LINEAR FLUORESCENT	INCENTIVE	
		\$/kWh	\$/kW <sup>1</sup>
	Interior linear fluorescent lighting:		
NA-28631	Other lighting (not approved for payment)*	\$0.03	\$150

\* This solution code is not approved for payment. Once reviewed, if the technology is eligible, it will be assigned a solution code (which may be new or existing).

Note: A Federal mandate requires standard T8 as the minimum efficiency standard for lighting manufacturing. Thus, as of July 1, 2012, standard T8 is SCE energy efficiency incentives program's lighting basecase. Customers with lower standard lamps and ballasts (such as T12s) who want to achieve energy savings beyond the standard T8 savings, can participate in these lighting solutions.

For complete terms and conditions, go to [sce.com/solutions](http://sce.com/solutions). Please refer to the "What's New" section of the Online Application ([sceonlineapp.com](http://sceonlineapp.com)) for additions, deletions and other changes to solutions and eligibility requirements since the publication date of this document (print or online).

1. kW incentive applies. Refer to the Appendix: Eligibility requirements for incentive qualifications and detailed calculations.

LINEAR FLUORESCENT, CONTINUED

**INTERIOR LINEAR FLUORESCENT FIXTURES**

T8, T5, or T5/high output linear fluorescent fixtures replacing less efficient light source, such as incandescent, metal halide, or mercury vapor.

**Express Solution Qualifying Questions**

**YES** The answer should be “Yes” to every applicable question in a solution category for a project to qualify for that incentive. If you answer “No” to any question in the Express Solution section, consider a Customized Solution.

- Are complete new T8 or T5 or T5HO fixtures being installed?
- Will the new fixtures have a wattage equal to or less than the maximum wattage listed in the table below for each range of lamp wattage being replaced and have a lower wattage than the fixture being replaced?
- Will fixtures be equipped with linear fluorescent lamps and ballasts that meet the specifications defined in the T8 or T5 Linear Fluorescent Lamps with Electronic Ballasts category? All 4-foot T8 lamps and ballasts must be listed as High Performance (HP) T8 lamps and HP ballasts, and be listed at <http://library.cee1.org/content/commercial-lighting-qualifying-products-lists>.
- Are new fixtures replacing, one for one, existing incandescent, mercury vapor, standard metal halide, pulse-start metal halide or high-pressure sodium fixtures in interior installations? Existing exterior installations do not qualify.
- Will all replacement fixtures be hardwired?
- Is this the only Express Solution category under which the fixtures are receiving incentives?
- Will fixtures be installed at a height over 12' above the finished floor to qualify for 400-watt and greater-than-400-watt categories?

**Express Solution**

SOLUTION CODE	SOLUTION DESCRIPTION FOR LINEAR FLUORESCENT	INCENTIVE	
		\$/unit of measure	
	Interior linear fluorescent fixtures:		
LT-41199	≤ 100-watt lamp existing, up to 64-watt replacement fixture		\$10.00 / fixture
LT-12866	101- to 175-watt lamp existing, up to 128-watt replacement fixture		\$25.00 / fixture
LT-84912	176- to 399-watt lamp existing, up to 192-watt replacement fixture		\$45.00 / fixture
LT-55943	245- to 360-watt (tier 2) interior fixture T5 linear fluorescent replacing 400-watt lamp base case		\$60.00 / fixture
LT-26100	400-watt lamp existing, up to 244-watt replacement fixture		\$75.00 / fixture
LT-92448	> 400-watt lamp existing, up to 600-watt replacement fixture		\$100.00 / fixture

Note: For the purposes of defining solution eligibility, the **lamp** wattage is used for the existing equipment and the **fixture** wattage (including impact of ballast) is used for the replacement equipment.

**Customized Solution**

SOLUTION CODE	SOLUTION DESCRIPTION FOR LINEAR FLUORESCENT	INCENTIVE	
		\$/kWh	\$/kW <sup>1</sup>
	Interior linear fluorescent lighting:		
NA-28631	Other lighting (not approved for payment)*	\$0.03	\$150

\* This solution code is not approved for payment. Once reviewed, if the technology is eligible, it will be assigned a solution code (which may be new or existing).

Note: A Federal mandate requires standard T8 as the minimum efficiency standard for lighting manufacturing. Thus, as of July 1, 2012, standard T8 is SCE energy efficiency incentives program’s lighting basecase. Customers with lower standard lamps and ballasts (such as T12s) who want to achieve energy savings beyond the standard T8 savings, can participate in these lighting solutions.

For complete terms and conditions, go to [sce.com/solutions](http://sce.com/solutions). Please refer to the “What’s New” section of the Online Application ([sceonlineapp.com](http://sceonlineapp.com)) for additions, deletions and other changes to solutions and eligibility requirements since the publication date of this document (print or online).

1. kW incentive applies. Refer to the Appendix: Eligibility requirements for incentive qualifications and detailed calculations.

# Energy Efficiency

## Incentives

LINEAR FLUORESCENT, CONTINUED

### INTERIOR BI-LEVEL STAIRWELL/HALL/PARKING GARAGE FLUORESCENT FIXTURE

A linear fluorescent hardwired fixture with electronic ballast and a passive infrared (PIR) or ultrasonic sensor that will reduce the fixture wattage by 35% or more during unoccupied periods.

#### Express Solution Qualifying Questions

**YES** The answer should be “Yes” to every applicable question in a solution category for a project to qualify for that incentive. If you answer “No” to any question in the Express Solution section, consider a Customized Solution.

- Will all interior replacement fluorescent fixtures be hardwired? Exterior installations do not qualify.
- Are new fixtures equipped with electronic ballasts and manufacturer-integrated occupancy sensors?
- Are all installed lamps pin-based? All 4-foot T8 lamps and ballasts must be listed as High Performance (HP) T8 lamps and HP ballasts, and be listed at <http://library.cee1.org/content/commercial-lighting-qualifying-products-lists>.
- Are the manufacturer-integrated sensors PIR and/or ultrasonic controlling individual fixtures? Fixtures must default to full light output if integrated sensors fail. Fixtures controlled by “manual on” overrides do not qualify.
- Do the fixtures operate at full light output during occupied periods?
- Do the fixtures operate at 35% or less of full wattage during unoccupied periods?
- Are you replacing a fixture containing (2) 4’ lamps with a new fixture containing (2) 4’ lamps?
- Is the retrofit considered Retrofit Add-on (i.e. the project does not trigger Title 24 code compliance)?

*Note: A parking garage is a covered building or structure for the purpose of parking vehicles, which consists of at least a roof over the parking area enclosed with walls on all sides. Parking garages may have fences, rails, partial walls (pony wall), or other barriers in place of one or more walls. The structure has an entrance(s) and exit(s), and includes areas for vehicle maneuvering to reach the parking spaces. If the roof of the parking structure is also used for parking, the section without an overhead roof is considered a parking lot instead of a parking garage.*

Note: A Federal mandate requires standard T8 as the minimum efficiency standard for lighting manufacturing. Thus, as of July 1, 2012, standard T8 is SCE energy efficiency incentives program’s lighting basecase. Customers with lower standard lamps and ballasts (such as T12s) who want to achieve energy savings beyond the standard T8 savings, can participate in these lighting solutions.

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## LINEAR FLUORESCENT, CONTINUED

**Express Solution**

SOLUTION CODE	SOLUTION DESCRIPTION FOR LINEAR FLUORESCENT	INCENTIVE	
		\$/unit of measure	
	Interior bi-level stairwell/hall/enclosed garage fluorescent fixture:		
LT-69302	T8 linear fluorescent fixture existing, to dimming fluorescent fixture	\$25.00 / fixture	
LT-48107	T8 linear fluorescent fixture existing, to on/off fluorescent fixture	\$15.00 / fixture	

**Customized Solution**

SOLUTION CODE	SOLUTION DESCRIPTION FOR LINEAR FLUORESCENT	INCENTIVE	
		\$/kWh	\$/kW <sup>1</sup>
	Interior linear fluorescent lighting:		
LT-15908	Interior linear fluorescent reflector retrofit kit	\$0.03	\$150
NA-28631	Other lighting (not approved for payment)*	\$0.03	\$150
	Exterior linear fluorescent lighting:		
LT-39008	Exterior linear fluorescent retrofits	\$0.03	\$100
LT-25804	Exterior linear fluorescent reflector retrofit kit	\$0.03	\$100
NA-28631	Other lighting (not approved for payment)*	\$0.03	\$100

\* This solution code is not approved for payment. Once reviewed, if the technology is eligible, it will be assigned a solution code (which may be new or existing).

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1. kW incentive applies. Refer to the Appendix: Eligibility requirements for incentive qualifications and detailed calculations.

# Energy Efficiency

## Incentives

### INDUCTION

Induction lamps are electrodeless lamps where the power needed to generate light is transferred from the outside of the lamp envelope by means of (electro)magnetic fields.

#### INTERIOR INDUCTION FIXTURES

New, hardwired induction fixtures replacing, one for one, an existing, less efficient lighting source.

##### Express Solution Qualifying Questions

**YES** The answer should be "Yes" to every applicable question in a solution category for a project to qualify for that incentive. If you answer "No" to any question in the Express Solution section, consider a Customized Solution.

- Are complete new induction fixtures being installed? Induction retrofit kits are ineligible for incentives through either Express Solutions or Customized Solutions.
- Do the new fixtures have a lower wattage than the fixtures being replaced without exceeding the maximum wattage listed in the incentive table that follows for each range of lamp wattage being replaced?
- Are new fixtures equipped with induction lamps and drivers?
- Are new fixtures replacing, one for one, existing incandescent, mercury vapor, High Output/Very High Output linear fluorescent, standard probe-start metal halide, pulse-start metal halide, or high-pressure sodium fixtures in interior installations?
- Will all replacement fixtures be hardwired?
- Will fixtures be installed at a height over 12' above the finished floor to qualify for the 400-watt category?
- Is this the only Express Solution Category under which the fixtures are receiving incentives? Fixtures are not eligible for additional incentives under the other solution categories.

##### Express Solution

SOLUTION CODE	SOLUTION DESCRIPTION FOR INDUCTION	INCENTIVE	
		\$/unit of measure	
	Interior induction fixtures:		
LT-51211	≤ 100-watt lamp existing, up to 70-watt induction lamp	\$25.00 / fixture	
LT-26734	101- to 175-watt lamp existing, up to 120-watt induction lamp	\$50.00 / fixture	
LT-80108	176- to 399-watt lamp existing, up to 180-watt induction lamp	\$60.00 / fixture	
LT-34098	400-watt lamp existing, up to 250-watt induction lamp	\$90.00 / fixture	
LT-69009	400-watt lamp existing, up to 360-watt induction lamp	\$50.00 / fixture	

##### Customized Solution

SOLUTION CODE	SOLUTION DESCRIPTION FOR INDUCTION	INCENTIVE	
		\$/kWh	\$/kW'
	Interior induction lighting fixtures:		
NA-28631	Other lighting (not approved for payment)*	\$0.03	\$150

\* This solution code is not approved for payment. Once reviewed, if the technology is eligible, it will be assigned a solution code (which may be new or existing).

Note: A Federal mandate requires standard T8 as the minimum efficiency standard for lighting manufacturing. Thus, as of July 1, 2012, standard T8 is SCE energy efficiency incentives program's lighting basecase. Customers with lower standard lamps and ballasts (such as T12s) who want to achieve energy savings beyond the standard T8 savings, can participate in these lighting solutions.

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1. kW incentive applies. Refer to the Appendix: Eligibility requirements for incentive qualifications and detailed calculations.

INDUCTION, CONTINUED

**EXTERIOR INDUCTION FIXTURES**

New, hardwired induction fixtures replacing, one for one, an existing, less efficient lighting source.

**Express Solution Qualifying Questions**

**YES** The answer should be “Yes” to every applicable question in a solution category for a project to qualify for that incentive. If you answer “No” to any question in the Express Solution section, consider a Customized Solution.

- Are complete new induction fixtures being installed? Induction retrofit kits are ineligible for incentives through either Express Solutions or Customized Solutions.
- Is the proposed installation for an exterior application? All installations for this solution are for exterior applications only—interior installations do not qualify.
- Are new fixtures replacing, one for one, existing incandescent, mercury vapor, High Output/Very High Output linear fluorescent, standard probe-start metal halide, or high-pressure sodium fixtures in exterior installations? Existing pulse-start metal halide installations do not qualify.
- Do the new fixtures have a lower wattage than the fixtures being replaced without exceeding the maximum wattage listed in the solutions table that follows for each range of lamp wattage being replaced?
- Are new fixtures equipped with induction lamps and drivers?
- Will all replacement fixtures be hardwired?
- Will fixtures be installed at a height over 12' above the finished floor to qualify for the 400-watt category?

**Express Solution**

SOLUTION CODE	SOLUTION DESCRIPTION FOR INDUCTION	INCENTIVE	
		\$/unit of measure	
	Exterior induction fixtures:		
LT-10663	≤ 100-watt lamp existing, up to 70-watt replacement fixture	\$25.00 / fixture	
LT-60651	101- to 175-watt lamp existing, up to 100-watt replacement fixture	\$35.00 / fixture	
LT-21067	176- to 200-watt lamp existing, up to 120-watt replacement fixture	\$40.00 / fixture	
LT-58832	201- to 399-watt lamp existing, up to 180-watt replacement fixture	\$35.00 / fixture	
LT-78695	400-watt lamp existing, up to 250-watt replacement fixture	\$90.00 / fixture	

**Customized Solution**

SOLUTION CODE	SOLUTION DESCRIPTION FOR INDUCTION	INCENTIVE	
		\$/kWh	\$/kW <sup>1</sup>
	Exterior induction lighting retrofits:		
NA-28631	Other lighting (not approved for payment)*	\$0.03	\$150

\* This solution code is not approved for payment. Once reviewed, if the technology is eligible, it will be assigned a solution code (which may be new or existing).

Note: A Federal mandate requires standard T8 as the minimum efficiency standard for lighting manufacturing. Thus, as of July 1, 2012, standard T8 is SCE energy efficiency incentives program’s lighting basecase. Customers with lower standard lamps and ballasts (such as T12s) who want to achieve energy savings beyond the standard T8 savings, can participate in these lighting solutions.

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1. kW incentive applies. Refer to the Appendix: Eligibility requirements for incentive qualifications and detailed calculations.

# Energy Efficiency

## Incentives

**LIGHT EMITTING DIODE (LED)** A solid-state semiconductor device that converts electrical energy directly into light.

### INTEGRAL LED LAMPS

Lamps with LEDs, an integrated driver, and an ANSI standardized base designed to connect to the branch circuit via an ANSI standardized lamp holder/socket of a hardwired fixture (plug-in fixtures are not eligible).

#### Express Solution Qualifying Questions

**YES** The answer should be “Yes” to every applicable question in a solution category for a project to qualify for that incentive. If you answer “No” to any question in the Express Solution section, consider a Customized Solution.

- Are the new LED integral lamps (screw-based or pin-based) ENERGY STAR-qualified? Visit [http://energystar.gov/index.cfm?fuseaction=find\\_a\\_product.showProductGroup&pgw\\_code=LB](http://energystar.gov/index.cfm?fuseaction=find_a_product.showProductGroup&pgw_code=LB) for a list of qualified LED lamps.
- Are the LED lamps replacing, one for one, existing incandescent or halogen lamps? New LED lamp wattage must be less than the wattage of the replaced incandescent or halogen lamp.
- Are the LED lamps being installed in an interior space?
- Is each LED lamp being installed via the ANSI standardized lamp holder/socket of a hardwired fixture? Plug-in fixtures are not eligible.
- Do the LED lamps meet the minimum wattage requirements stated in the measure description? Incentive is based on lamp wattage, not total fixture wattage.
- Are new LED lamps compatible with existing lighting controls and/or fixture components? Customers are responsible for verifying compatibility with existing lighting controls.

*Note: Customer is responsible for maintaining adequate light levels, as well as lamp and fixture compatibility to ensure proper fixture performance levels are met.*

#### Express Solution

SOLUTION CODE	SOLUTION DESCRIPTION FOR LED	INCENTIVE	
		\$/unit of measure	
LT-12834	A-lamps: ≤ 40 watts existing, up to 10 watts LED A-lamp	\$ 5.00 / lamp	
LT-10965	A-lamps: 41- to 100 watts existing, up to 30 watts LED A-lamp	\$ 15.00 / lamp	
LT-19877	MR16: ≤ 35 watts existing, up to 6 watts LED MR16	\$ 5.00 / lamp	
LT-54654	MR16: 36- to 50 watts existing, up to 10 watts LED MR16	\$ 12.50 / lamp	
LT-65785	PAR30: ≤ 50 watts existing, up to 15 watts LED PAR30	\$ 17.50 / lamp	
LT-89789	PAR30: 51- to 75 watts existing, up to 21 watts LED PAR30	\$ 17.50 / lamp	
LT-90344	PAR38: ≤ 50 watts existing, up to 17 watts LED PAR38	\$ 20.00 / lamp	
LT-92133	PAR38: 51- to 90 watts existing, up to 25 watts LED PAR38	\$ 20.00 / lamp	
LT-79284	LED Candelabra 1 watt < 2 watts	\$ 5.00 / lamp	
LT-48077	LED Candelabra 2 watt < 3 watts	\$ 5.00 / lamp	
LT-48560	LED Candelabra 3 watt < 4 watts	\$ 10.00 / lamp	
LT-48123	LED Candelabra ≥ 4 watts	\$ 10.00 / lamp	
LT-89075	LED PAR 20 < 8 watts	\$ 5.00 / lamp	
LT-91612	LED PAR 20 8 to 12 watts	\$ 10.00 / lamp	

#### Customized Solution

SOLUTION CODE	SOLUTION DESCRIPTION FOR LED		INCENTIVE	
			\$/kWh	\$/kW <sup>1</sup>
LT-84635	Interior LED integral lamps—Decorative lamps	TARGETED	\$0.08	\$150

Note: A Federal mandate requires standard T8 as the minimum efficiency standard for lighting manufacturing. Thus, as of July 1, 2012, standard T8 is SCE energy efficiency incentives program’s lighting basecase. Customers with lower standard lamps and ballasts (such as T12s) who want to achieve energy savings beyond the standard T8 savings, can participate in these lighting solutions.

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1. kW incentive applies. Refer to the Appendix: Eligibility requirements for incentive qualifications and detailed calculations.

LED, CONTINUED

**LED REFRIGERATED DISPLAY CASE LIGHTING RETROFIT**

A qualified LED fixture replacing a 5-foot or 6-foot T8 or T12HO fluorescent fixture in a refrigerated case.

**Express Solution Qualifying Questions**

**YES** The answer should be “Yes” to every applicable question in a solution category for a project to qualify for that incentive. If you answer “No” to any question in the Express Solution section, consider a Customized Solution.

Are the LED fixtures installed in a refrigerated case? This solution applies to fixture-only retrofits and incentive is paid on a “per door” basis.

Will the LED fixtures in the refrigerated reach-in display be replacing either:  
 A) 5 or 6-foot T8 linear fluorescent fixtures?  
 OR  
 B) 5 or 6-foot T12 High Output linear fluorescent fixtures?

*Note: Replacement of 4-foot fluorescent lamps with LED fixtures may be eligible through Customized Solutions if utility-approved fixtures are installed.*

Are the LED fixtures utility approved? All LED fixtures must be utility approved to receive incentives. For a list of qualifying LED refrigerated case door lighting fixtures please refer to [http://temp.designlights.org/solidstate.about.QualifiedProductsList\\_Publicv2.php](http://temp.designlights.org/solidstate.about.QualifiedProductsList_Publicv2.php).

**Express Solution**

SOLUTION CODE	SOLUTION DESCRIPTION FOR LED	INCENTIVE	
		\$/unit of measure	
LT-80693	LED refrigerated display case lighting	\$50.00 / door	

**Customized Solution**

SOLUTION CODE	SOLUTION DESCRIPTION FOR LED	INCENTIVE	
		\$/kWh	\$/kW <sup>1</sup>
	Interior LED lighting:		
NA-28631	Other lighting (not approved for payment)*	\$0.03	\$150

\* This solution code is not approved for payment. Once reviewed, if the technology is eligible, it will be assigned a solution code (which may be new or existing).

Note: A Federal mandate requires standard T8 as the minimum efficiency standard for lighting manufacturing. Thus, as of July 1, 2012, standard T8 is SCE energy efficiency incentives program’s lighting basecase. Customers with lower standard lamps and ballasts (such as T12s) who want to achieve energy savings beyond the standard T8 savings, can participate in these lighting solutions.

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1. kW incentive applies. Refer to the Appendix: Eligibility requirements for incentive qualifications and detailed calculations.

# Energy Efficiency

## Incentives

LED, CONTINUED

### ENERGY STAR® LIGHT EMITTING DIODE (LED) SURFACE, PENDANT, & RECESSED DOWNLIGHT

ENERGY STAR® qualified LED downlight fixtures replacing incandescent or halogen lamps.

#### Express Solution Qualifying Questions

**YES** The answer should be “Yes” to every applicable question in a solution category for a project to qualify for that incentive. If you answer “No” to any question in the Express Solution section, consider a Customized Solution.

- Are new LED downlight fixtures ENERGY STAR®-qualified?  
Visit [energystar.gov/index.cfm?fuseaction=find\\_a\\_product.showProductGroup&pgw\\_code=LU](http://energystar.gov/index.cfm?fuseaction=find_a_product.showProductGroup&pgw_code=LU) for a list of qualified products.
- Are new LED downlights replacing, one for one, existing incandescent or halogen fixtures with lamps greater than or equal to 40 watts?
- Are new LED downlight fixtures less than or equal to 15 watts?
- Are new LED downlights compatible with existing lighting controls? Customers are responsible for verifying compatibility with existing lighting controls.
- Are the fixtures located in an interior space?

#### Express Solution

SOLUTION CODE	SOLUTION DESCRIPTION FOR LED	INCENTIVE	
		\$/unit of measure	
LT-68701	ENERGY STAR® LED surface, pendant, and recessed downlight: ≤ 15 watts	\$30.00 / fixture	

#### Customized Solution

SOLUTION CODE	SOLUTION DESCRIPTION FOR LED		INCENTIVE	
			\$/kWh	\$/kW <sup>1</sup>
	Interior LED lighting:			
LT-58676	Interior LED recessed surface and pendant mounted downlights	<b>TARGETED</b>	\$0.08	\$150
NA-28631	Other lighting (not approved for payment)*		\$0.03	\$150

\* This solution code is not approved for payment. Once reviewed, if the technology is eligible, it will be assigned a solution code (which may be new or existing).

Note: A Federal mandate requires standard T8 as the minimum efficiency standard for lighting manufacturing. Thus, as of July 1, 2012, standard T8 is SCE energy efficiency incentives program’s lighting basecase. Customers with lower standard lamps and ballasts (such as T12s) who want to achieve energy savings beyond the standard T8 savings, can participate in these lighting solutions.

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**INTERIOR AND EXTERIOR LED LIGHTING**

Pre-qualified LED fixtures found in interior or exterior applications. Please refer to the Statewide Customized Offering Procedures Manual: Appendix E and Appendix F for pre-qualified LED products at [sceonlineapp.com/Docs.aspx](http://sceonlineapp.com/Docs.aspx). Additional pre-qualified products may be found at [designlights.org/QPL](http://designlights.org/QPL).

**Customized Solution** *Items eligible for Customized Solution incentives are shown below.*

SOLUTION CODE	SOLUTION DESCRIPTION FOR LED		INCENTIVE	
			\$/kWh	\$/kW <sup>1</sup>
	Interior LED lighting:			
LT-17492	Interior LED fixture replacement (utilizing approved luminaires)	<b>TARGETED</b>	\$0.08	\$150
LT-47463	Interior LED parking garage luminaires	<b>TARGETED</b>	\$0.08	\$150
LT-91217	Interior LED track or mono-point directional lighting fixtures	<b>TARGETED</b>	\$0.08	\$150
LT-58676	Interior LED recessed, surface and pendant-mounted downlights	<b>TARGETED</b>	\$0.08	\$150
LT-78694	Interior LED under-cabinet shelf-mounted task lighting	<b>TARGETED</b>	\$0.08	\$150
LT-19123	Interior LED pool lighting	<b>TARGETED</b>	\$0.08	\$150
<b>LT-78496</b>	<b>LED linear troffer volumetric retrofit kits</b>	<b>TARGETED</b>	<b>\$0.08</b>	<b>\$150</b>
NA-28631	Other lighting (not approved for payment)*		\$0.03	\$150

**Customized Solution** *Items eligible for Customized Solution incentives are shown below.*

SOLUTION CODE	SOLUTION DESCRIPTION FOR LED		INCENTIVE	
			\$/kWh	\$/kW <sup>1</sup>
	Exterior LED lighting**:			
LT-85834	Exterior LED fixture replacements (utilizing approved luminaires)	<b>TARGETED</b>	\$0.08	NA***
LT-48371	Exterior LED street lighting	<b>TARGETED</b>	\$0.08	NA***
LT-54771	Exterior LED street name sign lighting	<b>TARGETED</b>	\$0.08	NA***
LT-37654	Exterior LED outdoor pole/arm-mounted area and roadway luminaires	<b>TARGETED</b>	\$0.08	NA***
LT-23267	Exterior LED outdoor pole/arm-mounted decorative luminaires	<b>TARGETED</b>	\$0.08	NA***
LT-96754	Exterior LED wall-mounted area luminaires	<b>TARGETED</b>	\$0.08	NA***
LT-79301	Exterior LED wall wash luminaires	<b>TARGETED</b>	\$0.08	NA***
LT-68791	Exterior LED bollards	<b>TARGETED</b>	\$0.08	NA***
LT-46594	Exterior LED advertisement sign/smart sign	<b>TARGETED</b>	\$0.08	NA***
LT-23623	Exterior LED pool lighting	<b>TARGETED</b>	\$0.08	NA***
LT-45872	Exterior screw-in LED lamp	<b>TARGETED</b>	\$0.08	NA***
LT-54097	Exterior screw-in PAR/Reflector LED lamps	<b>TARGETED</b>	\$0.08	NA***
NA-28631	Other lighting (not approved for payment)*		\$0.03	NA***

\*\*Customized Solutions excludes retrofitting existing neon channel signs with LED lighting and excludes all retrofits using T8 LED lamps.

\*\*\*Exterior lighting solutions are not eligible for peak demand incentives as they are not generally operational during the CPUC-defined peak demand period. See 2013 Customized Statewide Procedures Manual for Business for details about calculating average peak demand impact for your project.

\* This solution code is not approved for payment. Once reviewed, if the technology is eligible, it will be assigned a solution code (which may be new or existing).

Note: A Federal mandate requires standard T8 as the minimum efficiency standard for lighting manufacturing. Thus, as of July 1, 2012, standard T8 is SCE energy efficiency incentives program's lighting basecase. Customers with lower standard lamps and ballasts (such as T12s) who want to achieve energy savings beyond the standard T8 savings, can participate in these lighting solutions.

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1. kW incentive applies. Refer to the Appendix: Eligibility requirements for incentive qualifications and detailed calculations.

# Energy Efficiency

## Incentives

### COMPACT FLUORESCENT FIXTURES

Hardwired installation of a compact fluorescent fixture replacing less efficient lighting sources, such as incandescent, mercury vapor, linear fluorescent, standard probe-start metal halide, or high-pressure sodium fixture.

#### COMPACT FLUORESCENT FIXTURES

##### Express Solution Qualifying Questions

**YES** The answer should be “Yes” to every applicable question in a solution category for a project to qualify for that incentive. If you answer “No” to any question in the Express Solution section, consider a Customized Solution.

- Are complete new compact fluorescent fixtures being installed?
- Do the new fixtures have a lower wattage than the fixtures being replaced without exceeding the maximum wattage listed in the incentive table below for each range of lamp wattage being replaced?
- Are new fixtures equipped with compact fluorescent lamps (CFLs) and electronic ballasts?
- Are CFL ballasts programmed-start or programmed rapid-start with a power factor (PF) of greater than or equal to 0.90 and total harmonic distortion (THD) of less than or equal to 20%?
- Are new fixtures replacing, one for one, existing incandescent, mercury vapor, High Output/Very High Output linear fluorescent, standard probe-start metal halide, or high-pressure sodium fixtures? Existing pulse-start metal halide installations do not qualify.
- Will all replacement fixtures be hardwired?
- Will fixtures be installed at a height over 12' above the finished floor to qualify for the 400-watt categories?
- Is this the only Express Solution category under which the fixtures are receiving incentives?

##### Express Solution

SOLUTION CODE	SOLUTION DESCRIPTION FOR COMPACT FLUORESCENT FIXTURES	INCENTIVE	
		\$/unit of measure	
	Interior:		
LT-83701	101- to 175-watt lamp existing, up to 128-watt replacement fixture	\$20.00 / fixture	
LT-33489	176- to 399-watt lamp existing, up to 192-watt replacement fixture	\$25.00 / fixture	
LT-84901	400-watt lamp existing, up to 360-watt replacement fixture	\$45.00 / fixture	
LT-26133	≥ 400-watt lamp existing, up to 244-watt replacement fixture	\$60.00 / fixture	
	Exterior:		
LT-10121	Exterior ≤ 100-watt lamp existing, up to 70-watt replacement fixture	\$10.00 / fixture	

##### Customized Solution

SOLUTION CODE	SOLUTION DESCRIPTION FOR COMPACT FLUORESCENT FIXTURES	INCENTIVE	
		\$/kWh	\$/kW <sup>1</sup>
	Interior compact fluorescent fixture lighting retrofit*:		
NA-28631	Other lighting (not approved for payment)**	\$0.03	\$150
	Exterior compact fluorescent fixture lighting retrofit:		
NA-28631	Other lighting (not approved for payment)**	\$0.03	\$150

\* Excludes interior retrofits where the rated wattage of the existing lamp is 100 watts or less.

\*\* This solution code is not approved for payment. Once reviewed, if the technology is eligible, it will be assigned a solution code (which may be new or existing).

Note: A Federal mandate requires standard T8 as the minimum efficiency standard for lighting manufacturing. Thus, as of July 1, 2012, standard T8 is SCE energy efficiency incentives program’s lighting basecase. Customers with lower standard lamps and ballasts (such as T12s) who want to achieve energy savings beyond the standard T8 savings, can participate in these lighting solutions.

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1. kW incentive applies. Refer to the Appendix: Eligibility requirements for incentive qualifications and detailed calculations.

## COMPACT FLUORESCENT FIXTURES, CONTINUED

**SCREW-IN COMPACT FLUORESCENT REFLECTOR LAMPS**

An ENERGY STAR® compact fluorescent reflector lamp with integrated ballast between 14 and 28 watts.

**Express Solution Qualifying Questions**

**YES** The answer should be “Yes” to every applicable question in a solution category for a project to qualify for that incentive.

- Are the screw-in compact fluorescent reflector lamps with integrated ballasts listed as ENERGY STAR®-qualified? Visit [http://energystar.gov/index.cfm?fuseaction=find\\_a\\_product.showProductGroup&pgw\\_code=LB](http://energystar.gov/index.cfm?fuseaction=find_a_product.showProductGroup&pgw_code=LB) for a list of qualifying lamps.
- Is the screw-in compact fluorescent reflector lamp wattage between 14 and 28 watts?
- Does the retrofit involve the one for one replacement of existing reflector-type incandescent, PAR halogen, or PAR halogen IR lamps? Accent lighting, flood lighting, and down lighting all qualify for this incentive.

**Express Solution**

SOLUTION CODE	SOLUTION DESCRIPTION FOR COMPACT FLUORESCENT FIXTURES	INCENTIVE	
		\$/unit of measure	
LT-55729	Screw-in compact fluorescent reflector lamps, 14–28 watts	\$4.00 / lamp	

**Customized Solution**

SOLUTION CODE	SOLUTION DESCRIPTION FOR COMPACT FLUORESCENT FIXTURES	INCENTIVE	
		\$/kWh	\$/kW <sup>1</sup>
LT-56637	Efficient high-bay screw-in CFL	\$0.03	\$150

Note: A Federal mandate requires standard T8 as the minimum efficiency standard for lighting manufacturing. Thus, as of July 1, 2012, standard T8 is SCE energy efficiency incentives program’s lighting basecase. Customers with lower standard lamps and ballasts (such as T12s) who want to achieve energy savings beyond the standard T8 savings, can participate in these lighting solutions.

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1. kW incentive applies. Refer to the Appendix: Eligibility requirements for incentive qualifications and detailed calculations.

# Energy Efficiency

## Incentives

### LIGHTING CONTROLS

Controls and sensors that have the ability to automatically turn off electrical systems when a space is not in use.

#### WALL-BOX LIGHTING SENSORS

Lights are turned on and off based on detection of motion by occupancy sensors replacing standard wall light switches.

##### Express Solution Qualifying Questions

**YES** The answer should be “Yes” to every applicable question in a solution category for a project to qualify for that incentive. If you answer “No” to any question in the Express Solution section, consider a Customized Solution.

- Are hardwired PIR and/or ultrasonic detectors being installed to control interior lighting fixtures?
- Are the units designed to replace a standard wall switch, without an exterior switch pack or relay? Only one sensor per circuit is allowed. (Multiple switches controlling the same fixtures can only receive one sensor incentive.)
- Will programmed rapid-start ballasts be used when occupancy sensors are installed to control fluorescent lamps? (This is generally recommended; however, it is not required.)
- Will the proper lamps and ballasts be used for the retrofit? Customers shall ensure that the appropriate lamps and ballast are in use for the installation.
- Is the retrofit considered Retrofit Add-on (i.e. the project does not trigger Title 24 code compliance)?

*Note: Hotel or Motel guest rooms or any other living space types do not qualify for the sensor incentives offer below. It is the customer’s responsibility to ensure that the sensors are installed and operating properly.*

##### Express Solution

SOLUTION CODE	SOLUTION DESCRIPTION FOR LIGHTING CONTROLS	INCENTIVE	
		\$/unit of measure	
LT-58209	Wall-box lighting sensor	\$5.00 / sensor	

##### Customized Solution

SOLUTION CODE	SOLUTION DESCRIPTION FOR LIGHTING CONTROLS		INCENTIVE	
			\$/kWh	\$/kW <sup>1</sup>
LT-50567	Lighting controls—energy management system (EMS)	TARGETED	\$0.08	\$150
LT-90853	Day lighting controls—EMS**	TARGETED	\$0.08	\$150
LT-74751	Day lighting systems with dimmable ballast**	TARGETED	\$0.08	\$150
LT-94134	Other lighting controls		\$0.03	\$150
LT-32843	Dimming Ballasts—20% Tuning**	TARGETED	\$0.08	\$150
LT-48272	Dimming Ballasts—20% Tuning + Auto Demand Response* **	TARGETED	\$0.08	\$150
LT-57958	Dimming Ballasts—20% Tuning + Occupancy Sensor**	TARGETED	\$0.08	\$150
LT-60897	Dimming Ballasts—20% Tuning + Occupancy Sensor + Auto Demand Response* **	TARGETED	\$0.08	\$150
LT-36502	Dimming Ballasts—20% Tuning + Daylight Harvesting**	TARGETED	\$0.08	\$150
LT-49584	Dimming Ballasts—20% Tuning + Daylight Harvesting + Auto Demand Response* **	TARGETED	\$0.08	\$150
LT-78223	Dimming Ballasts—20% Tuning + Occupancy Sensor + Daylight Harvesting with Side Lighting Photo Controls**	TARGETED	\$0.08	\$150
LT-89432	Dimming Ballasts—20% Tuning + Occupancy Sensor + Daylight Harvesting with Side Lighting Photo Controls + Auto Demand Response* **	TARGETED	\$0.08	\$150

\* To be eligible for incentives, these solutions must be used with their corresponding Demand Response solutions found on page 95.

\*\* Only eligible as a Retrofit Add-on (REA) (i.e. the project does not trigger Title 24 code compliance)

Note: A Federal mandate requires standard T8 as the minimum efficiency standard for lighting manufacturing. Thus, as of July 1, 2012, standard T8 is SCE energy efficiency incentives program’s lighting basecase. Customers with lower standard lamps and ballasts (such as T12s) who want to achieve energy savings beyond the standard T8 savings, can participate in these lighting solutions.

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1. kW incentive applies. Refer to the Appendix: Eligibility requirements for incentive qualifications and detailed calculations.

LIGHTING CONTROLS, CONTINUED

**WALL- OR CEILING-MOUNTED LIGHTING SENSORS**

Lights are turned on and off based on detection of motion by occupancy sensors.

**Express Solution Qualifying Questions**

**YES** The answer should be “Yes” to every applicable question in a solution category for a project to qualify for that incentive. If you answer “No” to any question in the Express Solution section, consider a Customized Solution.

- Are PIR and/or ultrasonic detectors being installed to control interior lighting fixtures?
- Do sensors meet the wattage-controlled requirements listed in the incentive table below?
- If wireless sensors are being installed, do the sensor batteries have a minimum rated design life of 5 years or greater?
- Will programmed rapid-start ballasts be used when occupancy sensors are installed to control fluorescent lamps? (This is generally recommended; however, it is not required.)
- Will the proper lamps and ballasts be used for the retrofit? Customers shall ensure that the appropriate lamps and ballast are in use for the installation.
- Is the retrofit considered Retrofit Add-on (i.e. the project does not trigger Title 24 code compliance)?

*Note: It is the customer’s responsibility to ensure that the sensors are installed and operating properly.*

**Express Solution**

SOLUTION CODE	SOLUTION DESCRIPTION FOR LIGHTING CONTROLS	INCENTIVE
		\$/unit of measure
	Hardwired:	
LT-98724	Wall- or ceiling-mounted lighting sensor < 500 watts controlled	\$35.00 / sensor
LT-38102	Wall- or ceiling-mounted lighting sensor ≥ 500 watts controlled	\$50.00 / sensor
	Wireless:	
LT-36254	Wall- or ceiling-mounted battery powered wireless lighting sensor < 500 watts controlled	\$35.00 / sensor
LT-10867	Wall- or ceiling-mounted battery powered wireless lighting sensor ≥ 500 watts controlled	\$50.00 / sensor

# Energy Efficiency

## Incentives

LIGHTING CONTROLS, CONTINUED

### AISLE TRAFFIC SENSOR FOR REACH-IN REFRIGERATED CASE DOORS

Lights are turned on and off based on detection of motion by occupancy sensors installed on reach-in refrigerated cases.

#### Express Solution Qualifying Questions

**YES** The answer should be “Yes” to every applicable question in a solution category for a project to qualify for that incentive. If you answer “No” to any question in the Express Solution section, consider a Customized Solution.

- Are hardwired PIR and/or ultrasonic detectors being installed to control vertically-mounted LED lighting fixtures in reach-in refrigerated display cases? This incentive is paid on a “per door” basis.
- Will the light levels dim down to an established low-power mode (less than 25% of full power consumption) in less than 2 minutes when no traffic is sensed in the aisles?
- Are the sensors installed in any of the following building types: Grocery, Food Store, or Retail with reach-in refrigerated display cases?

*Note: It is the customer’s responsibility to ensure that the sensors are installed and operating properly.*

#### Express Solution

SOLUTION CODE	SOLUTION DESCRIPTION FOR LIGHTING CONTROLS	INCENTIVE
		\$/unit of measure
LT-74831	Aisle traffic sensor for reach-in refrigerated case doors*	\$7.00 / door

\* Also available under Refrigeration Solutions.

## FOOD SERVICE

### COOKING EQUIPMENT

New energy-efficient cooking and cooking process equipment.

For a list of qualifying Food Service products, visit <http://fishnick.com/saveenergy/rebates>.

- All incentives apply toward the purchase of **new** or replacement energy-efficient equipment, unless otherwise specified
- Used or rebuilt equipment is not eligible
- Customers must provide proof that the appliances meet the specific energy-efficiency specifications below
- Installation address must have a commercial electric account with SCE.

### COMMERCIAL KITCHEN VENTILATION CONTROL – RETROFIT OR NEW HOOD

A new control system installed in an existing or new commercial kitchen exhaust hood and make-up air system, in conjunction with variable-speed fan controls. Incentives are based on the exhaust fan motor horsepower.

#### Express Solution Qualifying Questions

**YES** The answer should be “Yes” to every applicable question in a solution category for a project to qualify for that incentive.

- Is a new commercial kitchen exhaust hood control system being installed in an existing or new dedicated commercial kitchen? **Indicate exhaust motor hp on invoice.**
- Will the control system be used in conjunction with variable-speed fan motor controls? VSDs must be installed on the exhaust fans.
- Is the system on the Food Service Technology Center pre-approved list? Only pre-approved control systems qualify for an incentive. Refer to <http://fishnick.com/saveenergy/rebates/> to determine if the control system qualifies.
- If the control system is being added to a new kitchen hood, is the system’s total capacity less than 5,000 CFM?

*Application process: Project Installation Worksheet must be submitted with the Application. Worksheet available at <http://fishnick.com/saveenergy/rebates/>*

#### Express Solution

SOLUTION CODE	SOLUTION DESCRIPTION FOR COOKING EQUIPMENT	INCENTIVE
		\$/unit of measure
	Commercial kitchen ventilation control:	
FS-17337	Retrofit hood & new hood	\$350.00 / hp

### COMMERCIAL ELECTRIC GRIDDLES

#### Express Solution Qualifying Questions

**YES** The answer should be “Yes” to every applicable question in a solution category for a project to qualify for that incentive.

- Are the commercial electric griddles on the Food Service Technology Center’s pre-approved list? <http://fishnick.com/saveenergy/rebates/griddles.pdf>

#### Express Solution

SOLUTION CODE	SOLUTION DESCRIPTION FOR COOKING EQUIPMENT	INCENTIVE
		\$/unit of measure
	Commercial electric:	
FS-61445	Griddle	\$300.00 / griddle

# Energy Efficiency

## Incentives

COOKING EQUIPMENT, CONTINUED

### COMMERCIAL ELECTRIC COMBINATION OVENS

#### Express Solution Qualifying Questions

**YES** The answer should be "Yes" to every applicable question in a solution category for a project to qualify for that incentive.

 Does the combination oven have a tested steam mode cooking energy efficiency of greater than or equal to 50% and convection mode cooking energy efficiency of greater than or equal to 70% utilizing ASTM Standard F2861, and meet the idle rate requirements in Table 1 below?

**TABLE 1. ASTM F2861 IDLE RATE REQUIREMENTS FOR COMMERCIAL COMBINATION OVEN/STEAMERS**

Combi Oven Type	Steam Mode Idle Rate	Convection Mode Idle Rate
Electric Combi < 15 pan capacity*	≤ 5.0kW	≤ 2.0kW
Electric Combi 15-28 pan capacity*	≤ 6.0kW	≤ 2.5kW
Electric Combi > 28 pan capacity*	≤ 9.0kW	≤ 4.0kW

\*Combination oven/steamer pan capacity on based on the maximum capacity of standard 2 1/2-inch deep hotel pans. This must be consistent with the number of pans used to meet the energy-efficiency qualifications per ASTM F2861.

#### Express Solution

SOLUTION CODE	SOLUTION DESCRIPTION FOR COOKING EQUIPMENT	INCENTIVE
		\$/unit of measure
	Commercial electric:	
FS-14121	Cooking efficiency ≥ 60% commercial electric combination <15 pans oven	\$1,000.00 / unit
FS-30956	Cooking efficiency ≥ 60% commercial electric combination 15 to 28 pans oven	\$1,000.00 / unit
FS-20134	Cooking efficiency ≥ 60% commercial electric combination >28 pans oven	\$1,000.00 / unit

### COMMERCIAL ELECTRIC CONVECTION OVENS

#### Express Solution Qualifying Questions

**YES** The answer should be "Yes" to every applicable question in a solution category for a project to qualify for that incentive.

 Are the commercial electric convection ovens on the Food Service Technology Center pre-approved list? <http://fishnick.com/saveenergy/rebates/ovens.pdf>

#### Express Solution

SOLUTION CODE	SOLUTION DESCRIPTION FOR COOKING EQUIPMENT	INCENTIVE
		\$/unit of measure
	Commercial electric:	
FS-68320	Half-size convection oven	\$350.00 / unit
FS-59869	Full-size convection oven	\$350.00 / unit

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**COMMERCIAL ELECTRIC FRYERS**

**Express Solution Qualifying Questions**

**YES** The answer should be “Yes” to every applicable question in a solution category for a project to qualify for that incentive.

- Are the commercial electric fryers on the Food Service Technology Center pre-approved list? <http://fishnick.com/saveenergy/rebates/fryers.pdf>

Note: Multiple vat configurations are paid per qualifying vat.

**Express Solution**

SOLUTION CODE	SOLUTION DESCRIPTION FOR COOKING EQUIPMENT	INCENTIVE
		\$/unit of measure
	Commercial electric:	
FS-57892	Fryer/large vat fryer	\$200.00 / vat

**COMMERCIAL ELECTRIC STEAM COOKER**

**Express Solution Qualifying Questions**

**YES** The answer should be “Yes” to every applicable question in a solution category for a project to qualify for that incentive.

- Are the commercial electric steam cookers on the Food Service Technology Center pre-approved list? <http://fishnick.com/saveenergy/rebates/steamcookers.pdf>

**Express Solution**

SOLUTION CODE	SOLUTION DESCRIPTION FOR COOKING EQUIPMENT	INCENTIVE
		\$/unit of measure
	Commercial electric:	
FS-38502	Steam cooker	\$1,250.00 / steamer

# Energy Efficiency

## Incentives

COOKING EQUIPMENT, CONTINUED

### COMMERCIAL DECK OVENS

#### Express Solution Qualifying Questions

**YES** The answer should be “Yes” to every applicable question in a solution category for a project to qualify for that incentive.

- Are the commercial electric deck ovens on the Food Service Technology Center pre-approved list? <http://fishnick.com/saveenergy/rebates/deckovens.pdf>

#### Express Solution

SOLUTION CODE	SOLUTION DESCRIPTION FOR COOKING EQUIPMENT	INCENTIVE
		\$/unit of measure
	Commercial electric:	
FS-70944	Deck oven	\$975.00 / deck

### HOLDING CABINETS

An electric food holding cabinet that is fully insulated on all sides and has solid insulated doors.

#### Express Solution Qualifying Questions

**YES** The answer should be “Yes” to every applicable question in a solution category for a project to qualify for that incentive.

- Is the equipment an electric hot food holding cabinet that is fully insulated on all sides and has solid or transparent doors designed to maintain the temperature of the hot food that has been cooked using a separate appliance?
- Are holding cabinets on the Food Service Technology Center pre-approved list? <http://fishnick.com/saveenergy/rebates/hfc.pdf>

*Note: Cook and hold equipment does not qualify.*

#### Express Solution

SOLUTION CODE	SOLUTION DESCRIPTION FOR HOLDING CABINETS	INCENTIVE
		\$/unit of measure
	Insulated:	
FS-20224	Full size	\$300.00 / unit
FS-31559	Half size	\$200.00 / unit

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## COMMERCIAL ICE MACHINES

An air-cooled ice machine that makes cubed (less than or equal to 60 grams), flaked, crushed, or fragmented ice.

*Note: Commercial ice machines must be tested in accordance with the Air-Conditioning and Refrigeration Institute (ARI) Standard 810. Visit <http://ahrinet.org/> for product information and testing procedures.*

### Express Solution Qualifying Questions

**YES** The answer should be “Yes” to every applicable question in a solution category for a project to qualify for that incentive.

- Ice makers must be on the Food Service Technology Center pre-approved list. <http://fishnick.com/saveenergy/rebates/icemakers.pdf>
- Do the commercial ice machines generate 60 grams (2 oz) or lighter ice cubes? Ice makers which flake, crush, or fragment are also included.
- Is the machine air-cooled (self-contained, ice-making heads, or remote-condensing)?
- Will the entire AHRI-tested ice-making system be purchased?
- If proposed equipment is a remote machine, will the qualifying compressor unit be purchased with the remote machine?

**TABLE 2. SUPER-EFFICIENT ICE MAKER ENERGY EFFICIENCY REQUIREMENTS**

Equipment Type	Ice Harvest Rate (lbs ice/day)	Energy Use Limit (kWh/100 lbs ice)	Potable Water Use Limit (gal/100 lbs ice)
Ice Maker Head (IMH)	< 450	$8.72 - 0.0073 \times H^a$	$\leq 20$
	$\geq 450$	$5.86 - 0.0009 \times H^a$	$\leq 20$
Remote Condensing Unit (RCU) without remote compressor	< 1,000	$7.52 - 0.0032 \times H^a$	$\leq 20$
	$\geq 1,000$	4.34	$\leq 20$
Remote Condensing Unit (RCU) with remote compressor	< 934	$7.52 - 0.0032 \times H^a$	$\leq 20$
	$\geq 934$	4.51	$\leq 20$
Self Contained Unit (SCU)	< 175	$15.3 - 0.0399 \times H^a$	$\leq 30$
	$\geq 175$	8.33	$\leq 30$

### Express Solution

SOLUTION CODE	SOLUTION DESCRIPTION FOR COMMERCIAL ICE MACHINES	INCENTIVE
		\$/unit of measure
FS-93521	> 1500 lbs per day ice machine	\$500.00 / unit
FS-15494	1001 - 1500 lbs per day ice machine	\$400.00 / unit
FS-46758	501 - 1000 lbs per day ice machine	\$250.00 / unit
FS-34026	301 - 500 lbs per day ice machine	\$150.00 / unit
FS-29492	101 - 300 lbs per day ice machine	\$100.00 / unit

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# Energy Efficiency

## Incentives

### COMMERCIAL REACH-IN REFRIGERATORS OR FREEZERS

A reach-in refrigerated space consisting of panels made with inner and outer metal skins, an insulation core, and equipped with a cam-action closing device.

#### Express Solution Qualifying Questions

**YES** The answer should be “Yes” to every applicable question in a solution category for a project to qualify for that incentive.

Are the commercial refrigerators and/or freezers on the Food Service Technology Center pre-approved list? <http://fishnick.com/saveenergy/rebates/>

Is the refrigeration system packaged?

Exclusions:

- Cases with remote refrigeration systems do not qualify
- ENERGY STAR® Version 1.0 refrigerators and freezers do not qualify for incentive

#### Express Solution

SOLUTION CODE	SOLUTION DESCRIPTION FOR REACH-IN REFRIGERATORS OR FREEZER DOORS	INCENTIVE
		\$/unit of measure
	Commercial solid-door refrigerators:	
FS-13121	< 15 cu ft	\$50.00 / unit
FS-42962	≥ 15 cu ft and < 30 cu ft	\$75.00 / unit
FS-93044	≥ 30 cu ft and < 50 cu ft	\$125.00 / unit
FS-31425	≥ 50 cu ft	\$200.00 / unit
	Commercial solid-door freezers:	
FS-21276	< 15 cu ft	\$100.00 / unit
FS-61432	≥ 15 cu ft and < 30 cu ft	\$150.00 / unit
FS-86848	≥ 30 cu ft and < 50 cu ft	\$300.00 / unit
FS-54809	≥ 50 cu ft	\$600.00 / unit
	Commercial glass-door refrigerators:	
FS-77373	< 15 cu ft	\$75.00 / unit
FS-28291	≥ 15 cu ft and < 30 cu ft	\$100.00 / unit
FS-68882	≥ 30 cu ft and < 50 cu ft	\$125.00 / unit
FS-44686	≥ 50 cu ft	\$150.00 / unit
	Commercial glass-door freezers:	
FS-16170	< 15 cu ft	\$200.00 / unit
FS-38598	≥ 15 cu ft and < 30 cu ft	\$250.00 / unit
FS-58112	≥ 30 cu ft and < 50 cu ft	\$500.00 / unit
FS-30794	≥ 50 cu ft	\$1,000.00 / unit

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## REFRIGERATION

### REFRIGERATION CURTAINS

**Customized Solution** *Items eligible for Customized Solution incentives are shown below.*

SOLUTION CODE	SOLUTION DESCRIPTION FOR REFRIGERATION CURTAINS	INCENTIVE	
		\$/kWh	\$/kW <sup>1</sup>
RF-94321	Night curtains	\$0.08	\$150
RF-86746	Air curtains**	\$0.08	\$150
NA-30864	Other non-lighting (not approved for payment)*	\$0.08	\$150

Customized Solutions excludes strip curtains.

\*\* Only eligible for Retrofit (RET) projects (i.e. new construction or space purpose change not eligible)

**AUTO-CLOSERS** Cover for an existing walk-in refrigerated space consisting of panels made with inner and outer metal skins, an insulation core, and equipped with a cam-action closing device.

#### AUTO-CLOSERS FOR MAIN COOLER OR MAIN FREEZER DOORS

Auto-closers installed on walk-in cooler or freezer doors that firmly close the door when it is within one inch of full closure.

##### Express Solution Qualifying Questions

**YES** *The answer should be “Yes” to every applicable question in a solution category for a project to qualify for that incentive. If you answer “No” to any question in the Express Solution section, consider a Customized Solution.*



Will the auto-closer be applied to the main insulated opaque door(s) of an existing walk-in cooler or freezer?



Will the auto-closer be able to firmly close that door when it is within one inch of full closure?

##### Express Solution

SOLUTION CODE	SOLUTION DESCRIPTION FOR AUTO-CLOSERS	INCENTIVE	
		\$/unit of measure	
	Auto-closer:		
RF-16925	Main cooler doors	\$75.00 / closer	
RF-32156	Main freezer doors	\$75.00 / closer	

##### Customized Solution

SOLUTION CODE	SOLUTION DESCRIPTION FOR AUTO-CLOSERS	INCENTIVE	
		\$/kWh	\$/kW <sup>1</sup>
RF-16294	High-speed cold storage doors	\$0.08	\$150
RF-67581	Low-temperature reach-in door—anti-fog film	\$0.08	\$150
NA-30864	Other non-lighting (not approved for payment)*	\$0.08	\$150

\* This solution code is not approved for payment. Once reviewed, if the technology is eligible, it will be assigned a solution code (which may be new or existing).

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1. kW incentive applies. Refer to the Appendix: Eligibility requirements for incentive qualifications and detailed calculations.

# Energy Efficiency

## Incentives

**REFRIGERATION MOTORS**      Devices that convert electric energy into rotating mechanical energy for refrigeration.

### EFFICIENT EVAPORATOR FAN MOTOR

Electronically commutated motors (ECMs) replacing an existing standard efficiency shaded-pole evaporator fan motor of refrigerated display cases.

#### Express Solution Qualifying Questions

**YES**    The answer should be “Yes” to every applicable question in a solution category for a project to qualify for that incentive. If you answer “No” to any question in the Express Solution section, consider a Customized Solution.

- Is the existing equipment a standard efficiency shaded-pole or permanent split capacitor evaporator fan motor in a refrigerated display case?
- Are shaded-pole or permanent split capacitor motors being replaced by ECMs in an existing display case? ECMs in new cases are not eligible for incentives.

#### Express Solution

SOLUTION CODE	SOLUTION DESCRIPTION FOR REFRIGERATION MOTORS	INCENTIVE	
		\$/unit of measure	
	Efficient evaporator fan motor:		
RF-60192	Electronically commutated motor (ECM) in display cases	\$35.00 / motor	

#### Customized Solution

SOLUTION CODE	SOLUTION DESCRIPTION FOR REFRIGERATION MOTORS	INCENTIVE	
		\$/kWh	\$/kW <sup>1</sup>
NA-30864	Other non-lighting (not approved for payment)*	\$0.08	\$150

Customized Solutions excludes new or retrofit electronically commutated motors in walk-in refrigerated units.

\* This solution code is not approved for payment. Once reviewed, if the technology is eligible, it will be assigned a solution code (which may be new or existing).

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1. kW incentive applies. Refer to the Appendix: Eligibility requirements for incentive qualifications and detailed calculations.

**DISPLAY CASES** Horizontal and vertical refrigerated display cases.

### NIGHT COVERS FOR OPEN VERTICAL AND HORIZONTAL DISPLAY CASES

A barrier used on open refrigerated display cases when stores are closed, at least six hours per day, to limit heat transfer between refrigerated and ambient air.

#### Express Solution Qualifying Questions

**YES** The answer should be “Yes” to every applicable question in a solution category for a project to qualify for that incentive. If you answer “No” to any question in the Express Solution section, consider a Customized Solution.

- Is a cover being installed on an otherwise open display case to decrease cooling load of the refrigerated case during off hours?
- Has the linear footage of the installed night cover been properly measured? The incentive is based on the linear footage of the installed night cover.
- Will the cover be applied for an average period of at least 6 hours per day?
- Will night covers be installed by an authorized product representative, and will the installer verify that the night covers are compatible with the display cases so that they do not degrade system performance?
- It is recommended that a refrigeration technician review the project before night covers are installed to ensure that the affected refrigeration system(s) is capable of adapting to the reduced refrigeration load that occurs when the night covers are in place.

#### Express Solution

SOLUTION CODE	SOLUTION DESCRIPTION FOR DISPLAY CASES	INCENTIVE	
		\$/unit of measure	
	Night covers for open vertical and horizontal display cases:		
RF-25748	Med-temp	\$3.50 / linear ft	
RF-96857	Low-temp	\$3.50 / linear ft	

#### Customized Solution

SOLUTION CODE	SOLUTION DESCRIPTION FOR DISPLAY CASES	INCENTIVE	
		\$/kWh	\$/kW <sup>1</sup>
NA-30864	Other non-lighting (not approved for payment)*	\$0.08	\$150

\* This solution code is not approved for payment. Once reviewed, if the technology is eligible, it will be assigned a solution code (which may be new or existing).

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1. kW incentive applies. Refer to the Appendix: Eligibility requirements for incentive qualifications and detailed calculations.

# Energy Efficiency

## Incentives

DISPLAY CASES, CONTINUED

### NEW REFRIGERATION DISPLAY CASE WITH DOORS (LOW AND MEDIUM TEMPERATURES)

Retrofit of open multi-deck display case with a new high-efficiency reach-in unit with standard glass doors with electronically commutated motor (ECM) fan, T8 lamps and electronic ballast.

#### Express Solution Qualifying Questions

**YES** The answer should be "Yes" to every applicable question in a solution category for a project to qualify for that incentive. If you answer "No" to any question in the Express Solution section, consider a Customized Solution.

- Does the retrofit involve the replacement of an existing open multi-deck display case door with a new high-efficiency reach-in unit with double-pane glass doors with heat-reflective treatment or gas fill, ECM fan motors (evaporator and/or condenser), and T8 lamps and electronic ballast? This solution can be applied to self-contained or remote cases. The display case temperature setpoint must be between 5 and 24 degrees Fahrenheit for low-temp cases and between 24 and 36 degrees Fahrenheit for med-temp cases.
- Have the display cases been properly measured? Incentives are based on linear footage of new display case.
- Is the new case length equal to or shorter than the original case?
- Exclusions: Deli cases, custom coolers/freezers and walk-in boxes with reach-in doors do not qualify.

#### Express Solution

SOLUTION CODE	SOLUTION DESCRIPTION FOR DISPLAY CASES	INCENTIVE	
		\$/unit of measure	
	New refrigeration display case with doors:		
RF-75389	Low-temp	\$175.00 / linear ft	
RF-68765	Med-temp	\$75.00 / linear ft	

#### Customized Solution

SOLUTION CODE	SOLUTION DESCRIPTION FOR DISPLAY CASES	INCENTIVE	
		\$/kWh	\$/kW <sup>1</sup>
NA-30864	Other non-lighting (not approved for payment)*	\$0.08	\$150

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1. kW incentive applies. Refer to the Appendix: Eligibility requirements for incentive qualifications and detailed calculations.

**NEW HIGH-EFFICIENCY REFRIGERATION DISPLAY CASE WITH SPECIAL DOORS (LOW TEMP)**

Replacement of a less efficient reach-in unit with a high-efficiency unit with T8 lamps, ECM fan, and low/no anti-sweat glass double-pane doors.

**Express Solution Qualifying Questions**

**YES** *The answer should be “Yes” to every applicable question in a solution category for a project to qualify for that incentive. If you answer “No” to any question in the Express Solution section, consider a Customized Solution.*

- Is a new high-efficiency reach-in display case replacing an existing low-temperature self-contained or remote reach-in as shown in the table below?
- Is the new case length equal to or shorter than the original case? Incentive is based on linear footage of the new display case.
- Is this the only Express Solution category under which the fixtures are receiving incentives? This solution cannot be used in conjunction with Anti-Sweat Heat (ASH) Controls category.

EXISTING	REPLACEMENT
T12 lamps, magnetic ballast	T8 lamps, electronic ballast
Shaded-pole fan motor	ECM fan
Standard glass door	Low/no anti-sweat glass double-pane doors

**Express Solution**

SOLUTION CODE	SOLUTION DESCRIPTION FOR DISPLAY CASES	INCENTIVE	
		\$/unit of measure	
RF-25928	New high-efficiency refrigeration display case with special doors (low-temp)	\$75.00 / linear ft	

**Customized Solution**

SOLUTION CODE	SOLUTION DESCRIPTION FOR DISPLAY CASES	INCENTIVE	
		\$/kWh	\$/kW <sup>1</sup>
NA-30864	Other non-lighting (not approved for payment)*	\$0.08	\$150

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# Energy Efficiency

## Incentives

DISPLAY CASES, CONTINUED

### SPECIAL DOORS WITH LOW/NO ANTI-SWEAT HEAT ON LOW-TEMPERATURE DISPLAY CASES

Replacement of a standard glass door of a low-temperature reach-in display case with a glass door that requires minimal to no anti-sweat heat.

#### Express Solution Qualifying Questions

**YES** *The answer should be “Yes” to every applicable question in a solution category for a project to qualify for that incentive. If you answer “No” to any question in the Express Solution section, consider a Customized Solution.*

- Is an existing standard glass door with one glass pane of a low-temperature reach-in display case being replaced with a special glass door that requires minimum to no anti-sweat heat (ASH)? Is replacement door double-pane glass with heat-reflective treatment or gas fill? Is the display case temperature setpoint between 5 and 24 degrees Fahrenheit?
- Will new doors prevent condensation?
- Is the total wattage from the door rail, glass, and frame heater not more than 7.1 watts per square foot (W/ft<sup>2</sup>) of door opening?
- Is this the only Express Solution category under which the fixtures are receiving incentives?  
This solution cannot be used in conjunction with Anti-Sweat Heat (ASH) Controls category.

#### Express Solution

SOLUTION CODE	SOLUTION DESCRIPTION FOR DISPLAY CASES	INCENTIVE
		\$/unit of measure
RF-43276	Special doors with low/no anti-sweat heat on low-temp display case	\$100.00 / door
LT-80693*	LED refrigerated display case lighting retrofit	\$50.00 / door
LT-74831*	Aisle traffic sensor for reach-in refrigerated case doors	\$7.00 / door

\* Also available under Lighting Solutions.

## INSULATION

The process or materials used to reduce the rate of heat transfer and help maintain a uniform temperature.

### INSULATION FOR BARE SUCTION LINES

Bare suction lines insulated with closed-cell nitrite rubber or equivalent with at least  $\frac{3}{4}$  inch for medium-temperature and 1 inch for low-temperature systems. The suction line must be no more than  $1\frac{5}{8}$  inch in diameter.

#### Express Solution Qualifying Questions

**YES** The answer should be "Yes" to every applicable question in a solution category for a project to qualify for that incentive. If you answer "No" to any question in the Express Solution section, consider a Customized Solution.

- Does the retrofit involve insulating bare refrigeration suction lines of  $1\frac{5}{8}$  inch or less on existing equipment only? Only sections of piping located outside of the refrigerated space are eligible for this incentive.
- If insulating medium-temperature lines, will  $\frac{3}{4}$  inch of flexible closed-cell nitrite rubber or equivalent insulation be used? Insulation R-values must be R-3.2 or greater. Medium temperature lines supply spaces above 32 degrees Fahrenheit.
- If insulating low-temperature lines, will 1 inch of flexible closed-cell nitrite rubber or equivalent insulation be used? Insulation R-values must be R-4.3 or greater. Low temperature lines supply spaces below 32 degrees Fahrenheit.
- Has the length of the insulated material been properly measured? Incentive is based on the length, in linear feet, of the insulation installed?

*Note: Measurement dimensions must be cited on invoice or supporting documentation.*

#### Express Solution

SOLUTION CODE	SOLUTION DESCRIPTION FOR INSULATION	INCENTIVE	
		\$/unit of measure	
RF-82221	Insulation for bare suction lines	\$2.00 / linear ft	

#### Customized Solution

SOLUTION CODE	SOLUTION DESCRIPTION FOR INSULATION	INCENTIVE	
		\$/kWh	\$/kW <sup>1</sup>
RF-79698	Insulating refrigeration lines	\$0.08	\$150
RF-20654	Insulating storage tanks	\$0.08	\$150
NA-30864	Other non-lighting (not approved for payment)*	\$0.08	\$150

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# Energy Efficiency

## Incentives

### REFRIGERATION CONDENSER

A series or network of tubes filled with refrigerant that removes heat from the hot, gaseous refrigerant so that the refrigerant becomes liquid again.

**Customized Solution** *Items eligible for Customized Solution incentives are shown below.*

SOLUTION CODE	SOLUTION DESCRIPTION FOR CONDENSER		INCENTIVE	
			\$/kWh	\$/kW <sup>1</sup>
RF-53109	Oversized evaporated cooled condenser	TARGETED	\$0.15	\$150
RF-90876	Oversized air cooled condenser	TARGETED	\$0.15	\$150
RF-49983	Efficient refrigeration condensing unit	TARGETED	\$0.15	\$150
NA-30864	Other non-lighting (not approved for payment)*		\$0.08	\$150

### REFRIGERATION COMPRESSOR

An electromechanical device used in refrigeration and cooling systems to compress vaporized refrigerant.

**Customized Solution** *Items eligible for Customized Solution incentives are shown below.*

SOLUTION CODE	SOLUTION DESCRIPTION FOR COMPRESSOR		INCENTIVE	
			\$/kWh	\$/kW <sup>1</sup>
RF-95720	Scroll compressor for bulk tanks	TARGETED	\$0.15	\$150
RF-75894	Compressor sequencing (industrial and commercial refrigeration)		\$0.08	\$150
RF-65700	Efficient refrigeration compressors	TARGETED	\$0.15	\$150
NA-30864	Other non-lighting (not approved for payment)*		\$0.08	\$150

### REFRIGERATION SYSTEMS

Other components or equipment that remove heat from an enclosed space or substance, for the primary purpose of lowering the temperature of the enclosed space or substance and maintaining the lower temperature.

**Customized Solution** *Items eligible for Customized Solution incentives are shown below.*

SOLUTION CODE	SOLUTION DESCRIPTION FOR REFRIGERATION SYSTEMS		INCENTIVE	
			\$/kWh	\$/kW <sup>1</sup>
RF-38743	Single system to multiplex/parallel system conversion	TARGETED	\$0.15	\$150
RF-16859	Reduced load on refrigeration system (using cooling tower to partially offset load)		\$0.08	\$150
RF-28375	Single-stage system to two-stage refrigeration system conversion (industrial & commercial refrigeration)	TARGETED	\$0.15	\$150
RF-28505	Efficient refrigeration—operations		\$0.08	\$150
RF-68574	Repiping refrigeration whey-processing system		\$0.08	\$150
RF-78143	Refrigeration system retrofits	TARGETED	\$0.15	\$150
RF-63798	Refrigeration fan retrofits		\$0.08	\$150
NA-30864	Other non-lighting (not approved for payment)*		\$0.08	\$150

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## REFRIGERATION CONTROLS

Sensors or automated system utilizes remotely controlled power switching and circuit protective devices to manage multiple interdependent components.

### EVAPORATOR FAN CONTROLLER FOR WALK-IN COOLERS AND FREEZERS

A new control on a walk-in cooler/freezer evaporator fan that currently runs when the compressor cycles off. The power must be a minimum of 1/20 horsepower and the fan must be reduced by at least 75% when the compressor cycles off.

#### Express Solution Qualifying Questions

**YES** The answer should be “Yes” to every applicable question in a solution category for a project to qualify for that incentive. If you answer “No” to any question in the Express Solution section, consider a Customized Solution.

- Will airflow of evaporator fans in walk-in coolers/freezers be reduced when compressor(s) cycle off and there is no refrigerant flow through the evaporator?
- Does the existing equipment have a minimum fan load of 1/20 horsepower when the fan(s) operates at full speed, and does the fan(s) operate continuously at full speed?
- Will fan motor power be reduced by at least 75% during the compressor off-cycle? The following conditions must also be met in order to be eligible:
  - The compressor does not run all the time
  - The evaporator fan runs at full speed all the time with the exception of defrost cycles
  - The evaporator fan motor is single phase
  - Evaporator uses off-cycle or time-off defrost
  - The evaporator fan motor is shaded-pole

#### Express Solution

SOLUTION CODE	SOLUTION DESCRIPTION FOR REFRIGERATION CONTROLS	INCENTIVE	
		\$/unit of measure	
RF-37766	Evaporator fan controller for walk-in coolers and freezers	\$75.00 / controller	

#### Customized Solution

SOLUTION CODE	SOLUTION DESCRIPTION FOR REFRIGERATION CONTROLS	INCENTIVE	
		\$/kWh	\$/kW <sup>1</sup>
NA-30864	Other non-lighting (not approved for payment)*	\$0.08	\$150

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# Energy Efficiency

## Incentives

REFRIGERATION CONTROLS, CONTINUED

### FLOATING REFRIGERATION CONTROLS

Floating refrigeration controls allow the system's temperature and pressure set points to adjust based on fluctuations in ambient conditions and system load.

#### Express Solution Qualifying Questions

**YES** The answer should be "Yes" to every applicable question in a solution category for a project to qualify for that incentive. If you answer "No" to any question in the Express Solution section, consider a Customized Solution.

#### For Floating Saturated Condensing Temperature Controls (Air-Cooled and Evaporative-Cooled):

- Will the controls be applied to an existing multiplex refrigeration system with a fixed saturated condensing temperature (SCT) setpoint?
- Will the new SCT setpoint be ambient following by controlling condenser fans with variable- speed drives or by staging condenser fans?
- For air-cooled condenser, will the SCT be controlled to follow ambient + 12°F TD or less and for evaporative-cooled condenser, will the SCT be controlled to follow ambient wetbulb + 17°F TD or less?
- If back-flood controls are present, is the setpoint 68°F or less?
- Will minimum SCT setpoint be set to 70°F or less?
- Is cooling load based on connected display cases, walk-in coolers and freezers, and prep areas ONLY? Subcooler loads and air conditioning loads are not eligible for incentives.

#### For Floating Saturated Suction Temperature Controls:

- Will the controls be applied to an existing multiplex refrigeration system with a fixed suction setpoint?
- During periods of low fixture loads, do the controls allow the suction pressure to rise to the highest point that can still maintain setpoint temperatures at the critical case on the suction circuit?
- Is cooling load based on connected display cases, walk-in coolers and freezers, and prep areas ONLY? Subcooler loads and air conditioning loads are not eligible for incentives.

#### Express Solution

SOLUTION CODE	SOLUTION DESCRIPTION FOR REFRIGERATION CONTROLS	INCENTIVE
		\$/unit of measure
	Floating head and suction pressure controls:	
RF-31355	Floating saturated condensing temperature controls (air-cooled)	\$50 / ton
RF-41488	Floating saturated condensing temperature controls (evaporative-cooled)	\$50 / ton
RF-51222	Floating saturated suction temperature controls	\$50 / ton

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**ANTI-SWEAT HEATER (ASH) CONTROLS**

Controls that reduce or turn off the glass and frame anti-sweat heaters (ASH) during low ambient relative humidity periods or based on the amount of condensation formed on the inner glass pane.

**Express Solution Qualifying Questions**

**YES** The answer should be “Yes” to every applicable question in a solution category for a project to qualify for that incentive. If you answer “No” to any question in the Express Solution section, consider a Customized Solution.

- Can the proposed device sense the relative humidity in the air outside of the display case and reduce or turn off the glass door (if applicable) and frame anti-sweat heaters at low humidity conditions? Equivalent technologies that can reduce or turn off anti-sweat heater based on the amount of condensation formed on the inner glass pane may also qualify. Power reduction should occur when relative humidity levels reach 55% and lower. Power reduction should decrease by at least 2% for every percentage the humidity falls below 55%.
- Is this the only Express Solution category under which the fixtures are receiving incentives? This solution cannot be used in conjunction with New High-Efficiency Refrigeration Display Cases with Special Doors (Low Temp) and Special Doors with Low/No Anti-Sweat Heat on Low Temperature Display Cases categories.
- Has the linear footage of the case been properly measured? Incentive is based on the total linear footage of the case that is subject to the anti-sweat heater controls.

*Note: Measurement dimensions must be cited on invoice or supporting documentation.*

**Express Solution**

SOLUTION CODE	SOLUTION DESCRIPTION FOR REFRIGERATION CONTROLS	INCENTIVE	
		\$/unit of measure	
RF-48112	Anti-sweat heater (ASH) controls	\$25.00 / linear ft	

**Customized Solution**

SOLUTION CODE	SOLUTION DESCRIPTION FOR REFRIGERATION CONTROLS	INCENTIVE	
		\$/kWh	\$/kW <sup>1</sup>
NA-30864	Other non-lighting (not approved for payment)*	\$0.08	\$150

\* This solution code is not approved for payment. Once reviewed, if the technology is eligible, it will be assigned a solution code (which may be new or existing).

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# Energy Efficiency

## Incentives

REFRIGERATION CONTROLS, CONTINUED

### VENDING MACHINE CONTROLLER

Controller shuts off lighting and compressor of a non-perishable product vending machine when the surrounding area is unoccupied for 15 minutes (or longer), or if the sales traffic drops below a certain threshold level. The control must power up the compressor at least every two hours to maintain product temperature.

#### Express Solution Qualifying Questions

**YES** The answer should be “Yes” to every applicable question in a solution category for a project to qualify for that incentive. If you answer “No” to any question in the Express Solution section, consider a Customized Solution.

- Do the refrigerated vending machines contain only non-perishable bottled and canned beverages? If a vending machine is being installed then the equipment must be ENERGY STAR®-qualified.
- Will the controller turn off the lights and the compressor when surrounding area is unoccupied for 15 minutes to 1 hour, or if there is no sales traffic for a given period of time?
- Will control logic periodically power up the machine at regular intervals to maintain product temperature and provide compressor protection? Refurbished vending machines that include this option are eligible.

#### Express Solution

SOLUTION CODE	SOLUTION DESCRIPTION FOR REFRIGERATION CONTROLS	INCENTIVE	
		\$/unit of measure	
RF-75217	Vending machine controller	\$100.00 / controller	

### REFRIGERATION SYSTEM OPTIMIZATION

The process of modifying a refrigeration system to make some aspects of it more efficient while not reducing the baseline output.

#### Customized Solution *Items eligible for Customized Solution incentives are shown below.*

SOLUTION CODE	SOLUTION DESCRIPTION FOR REFRIGERATION CONTROLS		INCENTIVE	
			\$/kWh	\$/kW <sup>1</sup>
RF-18607	Refrigeration—energy management system (EMS)	<b>TARGETED</b>	\$0.15	\$150
RF-28734	Subcooling refrigeration controls		\$0.08	\$150
RF-43876	Defrost controls		\$0.08	\$150
	Variable-frequency drives for:			
RF-87644	Evaporator coil fan—VFD**		\$0.08	\$150
RF-94589	Screw compressor—VFD (industrial refrigeration)**		\$0.08	\$150
RF-79521	Refrigeration compressor controls		\$0.08	\$150
NA-30864	Other non-lighting (not approved for payment)*		\$0.08	\$150

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\*\* Only eligible as a Retrofit (RET). New installations not eligible.

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## BUILDING ENVELOPE

### WINDOW FILM

Window film applied to windows reduces heat transfer through single-pane windows to reduce the load on vapor-compression air conditioning systems.

#### Express Solution Qualifying Questions

**YES** The answer should be “Yes” to every applicable question in a solution category for a project to qualify for that incentive. If you answer “No” to any question in the Express Solution section, consider a Customized Solution.

- Does the film have a minimum five-year manufacturer’s warranty?
- Is the space cooled by vapor-compression air conditioner? Evaporative-cooled space is not eligible.
- Is the film installed on clear single-pane glass?
- Does the film have either a solar heat gain coefficient less than or equal to 0.39, or have an SHGC less than or equal to 0.47 and visible transmittance/solar heat gain coefficient ratio greater than 1.3? To convert shading coefficient (SC) to SHGC, use the following equation:  $SHGC = SC \times .87$  Submit manufacturer specification sheet and/or NFRC specifications documenting eligibility.
- If the window film is applied to windows with existing film, does the installation meet the following requirements?
  - Existing film will be removed before new film installation
  - Existing film has been installed for at least 13 years
  - Documentation is provided proving the 13-year minimum age

*Note: Invoice must include dimensions of windows. Please submit a copy of the warranty with the application.*

#### Express Solution

SOLUTION CODE	SOLUTION DESCRIPTION FOR WINDOW FILM	INCENTIVE	
		\$/unit of measure	
BE-58923	Reflective window film	\$1.35 / sq ft	

#### Customized Solution

SOLUTION CODE	SOLUTION DESCRIPTION FOR WINDOW FILM	INCENTIVE	
		\$/kWh	\$/kW <sup>1</sup>
NA-30864	Other non-lighting (not approved for payment)*	\$0.08	\$150

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1. kW incentive applies. Refer to the Appendix: Eligibility requirements for incentive qualifications and detailed calculations.

# Energy Efficiency

## Incentives

### WINDOW

A transparent opening constructed in a wall that allows the passage of light and, if not closed or sealed, air and sound. Windows may be glazed or covered in some other transparent or translucent material.

#### Customized Solution *Items eligible for Customized Solution incentives are shown below.*

SOLUTION CODE	SOLUTION DESCRIPTION FOR WINDOW	INCENTIVE	
		\$/kWh	\$/kW <sup>1</sup>
NA-30864	Other non-lighting (not approved for payment)*	\$0.08	\$150

### BUILDING SHELL IMPROVEMENTS

The outer shell, or the elements of a building such as walls, floors, and ceilings that enclose conditioned space. Properly designed, the envelope can minimize the gain or loss of heat and moisture.

#### Customized Solution *Items eligible for Customized Solution incentives are shown below.*

SOLUTION CODE	SOLUTION DESCRIPTION FOR BUILDING SHELL IMPROVEMENTS	INCENTIVE	
		\$/kWh	\$/kW <sup>1</sup>
BE-60912	Building shell improvements	\$0.08	\$150
NA-30864	Other non-lighting (not approved for payment)*	\$0.08	\$150

Customized Solutions excludes incentives for reflective roof (a.k.a. cool roof) and green roof installations.

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## WATER HEATING

**WATER HEATER** High-efficiency water heaters that replace existing less efficient water heaters.

### ELECTRIC STORAGE WATER HEATER

Please visit [ahridirectory.org](http://ahridirectory.org) for a list of qualifying residential water heaters and the corresponding Energy Factor (EF) rating values.

#### Express Solution Qualifying Questions

**YES** The answer should be “Yes” to every applicable question in a solution category for a project to qualify for that incentive.

- Is the new electric storage water heater replacing a previously installed electric storage water heater? Only residential-style electric storage water heaters qualify for this incentive.
- Does the new electric storage water heater have an Energy Factor (EF) rating greater than or equal to 0.93? The proposed EF rating must be higher than the existing electric storage water heater’s EF rating.
- Is the proposed capacity greater than or equal to 40 gallons?

*Note: Instantaneous or tankless water heaters do not qualify for this incentive.*

#### Express Solution

SOLUTION CODE	SOLUTION DESCRIPTION FOR WATER HEATER	INCENTIVE	
		\$/unit of measure	
WH-50970	Electric storage water heater: EF rating $\geq$ 0.93	\$30.00 / unit	

#### Customized Solution *Items eligible for Customized Solution incentives are shown below.*

SOLUTION CODE	SOLUTION DESCRIPTION FOR WATER HEATER	INCENTIVE	
		\$/kWh	\$/kW <sup>1</sup>
WH-78213	Replace electric water heater with heat pump water heater	\$0.08	\$150

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# Energy Efficiency

## Incentives

### HEATING, VENTILATING AND AIR CONDITIONING (HVAC)

#### DIRECT EXPANSION (DX) EQUIPMENT

DX refers to the more common refrigerant evaporator coil in packaged air conditioning equipment. This coil usually has a direct expansion valve (supplied by others) connected to the coil distributor.

#### PACKAGE TERMINAL AIR CONDITIONERS AND PACKAGE HEAT PUMPS

Installation of a package terminal air conditioning unit (PTAC) or a package terminal heat pump (PTHP) that is through the wall, self-contained, and less than two tons with an EER that is 20% higher than the minimum.

##### Express Solution Qualifying Questions

**YES** The answer should be "Yes" to every applicable question in a solution category for a project to qualify for that incentive.

Are package terminal air conditioners (PTAC) and package terminal heat pumps (PTHP) through-the-wall, self-contained units, and are two tons (24,000 Btu/hr) or less? Only standard size units designed for 16x42 inch wall sleeves are eligible.

Do units have an EER that is 20% higher than the minimum that is required by Title 24 code? Units that meet this requirement will have an EER that meets or exceeds Min EER calculated from the following equations:

- PTAC Min EER  $\geq (10.9 - (0.213 \times \text{_____} \div 1,000)) \times 1.2$  (fill in blank with unit's capacity in Btu/hr<sup>2</sup>)
- PTHP Min EER  $\geq (10.8 - (0.213 \times \text{_____} \div 1,000)) \times 1.2$  (fill in blank with unit's capacity in Btu/hr<sup>2</sup>)

*Note: Ductless mini-split air conditioner units are not eligible for incentives.*

##### Express Solution

SOLUTION CODE	SOLUTION DESCRIPTION FOR DIRECT EXPANSION (DX) EQUIPMENT	INCENTIVE
		\$/unit of measure
AC-37854	Package terminal air conditioners and package heat pumps	\$100.00 / unit

Customized Solutions excludes incentives for Direct Expansion HVAC Equipment covered by SCE's upstream incentive program. Excluded equipment categories include: Packaged & Split AC, Water Source Heat Pumps, Mini/Multi-splits.

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2. Use the rated cooling capacity of the unit in Btu/hr. If the unit's capacity is less than 7000 Btu/hr, use 7000 Btu/hr in the calculation. If the unit's capacity is greater than 15,000 Btu/hr, use 15,000 Btu/hr in the calculation.

## EVAPORATIVE COOLERS

A device that cools air through the simple evaporation of water.

### ADVANCED EVAPORATIVE COOLERS

Replacement of a vapor-compression air conditioning system with an evaporative cooler. An advanced evaporative cooler uses rigid, manufactured evaporative media and is equipped with water quality management systems that provide positive removal of sump water at regular intervals.

#### Express Solution Qualifying Questions

**YES** The answer should be “Yes” to every applicable question in a solution category for a project to qualify for that incentive. If you answer “No” to any question in the Express Solution section, consider a Customized Solution.

- Is an existing, vapor-compression air conditioning system being replaced? If not, will the existing compressor be made inoperative? If an existing evaporative cooler is being replaced, is the unit 15 years or older?
- Will retrofitted system not have “constant bleed” option? Constant bleed systems use constant draining to prevent mineral buildup and can use as much 5 gallons of water per hour. Advanced evaporative coolers should include a “sump dump system” that removes water and mineral buildup from the sump every 6 hours of operation. Optionally, water treatment systems may also be used in areas where water is high in mineral content.
- Is the project site in climate zones 9, 10, 13, 14, or 15?
- Is tonnage on Incentives Application based on the capacity of the package unit that is being replaced? For evaporative coolers, one equivalent ton of cooling is defined as 1,300 cfm of 0.1" static pressure. The invoice should contain information describing what is being replaced.
- Does the advanced evaporative cooler (AEC) have a rigid, manufactured evaporative media with a rated saturation effectiveness of 0.85 or better (a natural fiber pad is not allowed—the rigid media is generally 12" thick), and is equipped with water quality management system that provides positive removal of sump water on a regular interval not to exceed 1 time for every 6 hours of operation (a bleed system is not allowed)?

#### Express Solution

SOLUTION CODE	SOLUTION DESCRIPTION FOR EVAPORATIVE COOLERS	INCENTIVE	
		\$/unit of measure	
AC-19317	Advanced evaporative coolers	\$123.00 / ton	

#### Customized Solution

SOLUTION CODE	SOLUTION DESCRIPTION FOR EVAPORATIVE COOLERS		INCENTIVE	
			\$/kWh	\$/kW <sup>1</sup>
AC-32882	Direct evaporative pre-cooler for condensing units	TARGETED	\$0.15	\$150
AC-70772	Evaporative precoolers	TARGETED	\$0.15	\$150
NA-30864	Other non-lighting (not approved for payment)*		\$0.08	\$150

\* This solution code is not approved for payment. Once reviewed, if the technology is eligible, it will be assigned a solution code (which may be new or existing).

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1. kW incentive applies. Refer to the Appendix: Eligibility requirements for incentive qualifications and detailed calculations.

# Energy Efficiency

## Incentives

### ECONOMIZERS

Air-side economizers use cool outside air as a means of cooling the indoor space and water-side economizers use water cooled by a wet cooling tower to cool buildings without operating a chiller.

#### Express Solution Qualifying Questions

**YES** The answer should be “Yes” to every applicable question in a solution category for a project to qualify for that incentive.

- If applying for the degraded economizer, has the economizer been in its degraded state for more than one (1) year?
- If retrofitting an economizer on a packaged system, is the packaged unit five (5) tons or less?
- If applying for AC-89808, is the building type one of the following: Education (Secondary School, Community College, or University); Lodging – Hotel; Health/Medical (Clinic or Hospital); Office – Large; or Retail (Multistory Large or Single-story Large)?
- If applying for AC-60978, is the building type one of the following: Office – Small; Retail – Small; Restaurant (Sit Down or Fast Food); or Education – Relocatable Classroom?

#### Express Solution

SOLUTION CODE	SOLUTION DESCRIPTION FOR ECONOMIZERS	INCENTIVE	
		\$/unit of measure	
	Packaged unit economizer—repair and retrofit:		
AC-89808	Restore degraded economizer	\$35 / ton	
AC-60978	Package system retrofit (economizer replacing system with no economizer)	\$35 / ton	

#### Customized Solution *Items eligible for Customized Solution incentives are shown below.*

SOLUTION CODE	SOLUTION DESCRIPTION FOR ECONOMIZERS	INCENTIVE	
		\$/kWh	\$/kW <sup>1</sup>
AC-78487	Economized cooling using fluid coolers	\$0.08	\$150
NA-30864	Other non-lighting (not approved for payment)*	\$0.08	\$150

\* This solution code is not approved for payment. Once reviewed, if the technology is eligible, it will be assigned a solution code (which may be new or existing).

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1. kW incentive applies. Refer to the Appendix: Eligibility requirements for incentive qualifications and detailed calculations.

**CHILLER**

A device or unit that removes heat from a liquid via a vapor-compression or absorption refrigeration cycle.

**Customized Solution** *Items eligible for Customized Solution incentives are shown below.*

SOLUTION CODE	SOLUTION DESCRIPTION FOR CHILLERS	INCENTIVE	
		\$/kWh	\$/kW <sup>1</sup>
	High-efficiency chillers:		
AC-98022	High-efficiency chillers—water cooled	TARGETED	\$0.15 \$150
AC-85073	High-efficiency chillers—air cooled	TARGETED	\$0.15 \$150
AC-70454	Chiller heat reclaim	TARGETED	\$0.15 \$150
NA-30864	Other non-lighting (not approved for payment)*		\$0.08 \$150

**INSULATION**

Material used to help maintain a certain temperature in a building by reducing the flow of heat to and from that building.

**Customized Solution** *Items eligible for Customized Solution incentives are shown below.*

SOLUTION CODE	SOLUTION DESCRIPTION FOR INSULATION	INCENTIVE	
		\$/kWh	\$/kW <sup>1</sup>
AC-67584	Insulating—chiller water pipes		\$0.08 \$150
AC-98675	Insulating—condenser water pipes		\$0.08 \$150
AC-89065	Insulating—refrigerant pipes		\$0.08 \$150
AC-40390	Insulating cool air ducts		\$0.08 \$150
NA-30864	Other non-lighting (not approved for payment)*		\$0.08 \$150

**COOLING TOWER**

A heat removal device used to transfer process waste heat to the atmosphere. Cooling towers may either use the evaporation of water to remove process heat and cool the working fluid to near the wet-bulb air temperature or rely solely on air to cool the working fluid to near the dry-bulb air temperature.

**Customized Solution** *Items eligible for Customized Solution incentives are shown below.*

SOLUTION CODE	SOLUTION DESCRIPTION FOR COOLING TOWER	INCENTIVE	
		\$/kWh	\$/kW <sup>1</sup>
AC-86944	Cooling tower upgrade		\$0.08 \$150
NA-30864	Other non-lighting (not approved for payment)*		\$0.08 \$150

\* This solution code is not approved for payment. Once reviewed, if the technology is eligible, it will be assigned a solution code (which may be new or existing).

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1. kW incentive applies. Refer to the Appendix: Eligibility requirements for incentive qualifications and detailed calculations.

# Energy Efficiency

## Incentives

### COMPRESSOR

A mechanical device that pressurizes a gas in order to turn it into a liquid, thereby allowing heat to be removed or added.

**Customized Solution** *Items eligible for Customized Solution incentives are shown below.*

SOLUTION CODE	SOLUTION DESCRIPTION FOR COMPRESSOR		INCENTIVE	
			\$/kWh	\$/kW <sup>1</sup>
AC-12479	A-C compressor replacements		\$0.08	\$150
AC-18574	Frictionless compressor retrofit	TARGETED	\$0.15	\$150
NA-30864	Other non-lighting (not approved for payment)*		\$0.08	\$150

### CONDENSER

A device or unit used to condense a substance from its gaseous to its liquid state, typically by cooling it. In so doing, the latent heat is given up by the substance, and will transfer to the condenser coolant.

**Customized Solution** *Items eligible for Customized Solution incentives are shown below.*

SOLUTION CODE	SOLUTION DESCRIPTION FOR CONDENSER	INCENTIVE	
		\$/kWh	\$/kW <sup>1</sup>
NA-30864	Other non-lighting (not approved for payment)*	\$0.08	\$150

### HVAC SYSTEMS

Heating, Ventilating and Air Conditioning (HVAC) is used either collectively or individually to provide heating, cooling and humidity control in a building.

**Customized Solution** *Items eligible for Customized Solution incentives are shown below.*

SOLUTION CODE	SOLUTION DESCRIPTION FOR HVAC SYSTEMS		INCENTIVE	
			\$/kWh	\$/kW <sup>1</sup>
AC-34251	Central plant consolidation	TARGETED	\$0.15	\$150
AC-46584	VRF (variable refrigerant volume) air conditioning system	TARGETED	\$0.15	\$150
AC-39548	Variable-speed chiller plant optimization	TARGETED	\$0.15	\$150
AC-68495	Tie into central plant	TARGETED	\$0.15	\$150
AC-93670	Thermal energy storage energy savings	TARGETED	\$0.15	\$150
AC-24387	Replace standard air filter with high efficiency, low pressure drop air filter		\$0.08	\$150
AC-34264	Energy efficient fan blade retrofits		\$0.08	\$150
AC-63339	Data center HVAC flow management retrofit**		\$0.08	\$150
NA-30864	Other non-lighting (not approved for payment)*		\$0.08	\$150

Customized Solutions excludes incentives for Direct Expansion HVAC Equipment covered by SCE's upstream incentive program. Excluded equipment categories include: Packaged & Split AC, Water Source Heat Pumps, Mini/Multi-splits.

\* This solution code is not approved for payment. Once reviewed, if the technology is eligible, it will be assigned a solution code (which may be new or existing).

\*\* Only eligible as a Retrofit (RET). New installations not eligible.

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1. kW incentive applies. Refer to the Appendix: Eligibility requirements for incentive qualifications and detailed calculations.

## HVAC CONTROLS

A system or device that utilizes remotely controlled devices such as thermostats, sensors, and switches to regulate a heating or cooling system.

### VARIABLE-SPEED DRIVES (VSDs)

#### Express Solution Qualifying Questions

**YES** The answer should be “Yes” to every applicable question in a solution category for a project to qualify for that incentive. If you answer “No” to any question in the Express Solution section, consider a Customized Solution.

#### For Fans:

- Is the fan equal to or less than 100 hp?
- Will there be a 3% impedance choke? Impedance choke prevents high frequencies from entering high cost equipment such as motors. Chokes also smooth the output from the VSD rectifier. (This is recommended; however, it is not required.)

#### For All:

- Will modifications be made to existing system to allow for proper operation of VSD? For example for supply fans, will throttling devices such as inlet vanes or bypass dampers be removed or permanently disabled and fixed in the full-open position?
- Are VSD controls being added to existing equipment? Installation with new HVAC units or new fans and pumps is not eligible.

#### Express Solution

SOLUTION CODE	SOLUTION DESCRIPTION FOR HVAC CONTROLS	INCENTIVE
		\$/unit of measure
<b>AC-97352</b>	<b>Variable-speed drives for HVAC fans</b>	<b>\$120 / hp</b>
	Water cooled chiller’s variable speed drives (VSDs):	
AC-14365	Variable-speed drives on cooling tower fan control	\$85 / hp
<b>AC-91987</b>	<b>Variable-speed drives on chilled water pump control</b>	<b>\$300 / hp</b>

# Energy Efficiency

## Incentives

### HVAC CONTROLS, CONTINUED

#### Customized Solution

SOLUTION CODE	SOLUTION DESCRIPTION FOR HVAC CONTROLS	INCENTIVE	
		\$/kWh	\$/kW <sup>1</sup>
AC-32976	Carbon monoxide (CO) sensor for parking garages**	\$0.08	\$150
AC-96037	Ventilation thermostat controls	\$0.08	\$150
AC-75930	HVAC—energy management system (EMS)	TARGETED	\$0.15 \$150
AC-68030	Constant air volume to variable air volume conversions***	TARGETED	\$0.15 \$150
AC-75342	Pneumatic to DDC controls	TARGETED	\$0.15 \$150
AC-87564	Hot and cold deck reset		\$0.08 \$150
AC-60598	Variable air volume for fumehoods**		\$0.08 \$150
AC-59483	Automatic sash closer controls		\$0.08 \$150
	Chiller optimization controls		
AC-15987	Chilled water reset		\$0.08 \$150
AC-32109	Improved chiller sequencing		\$0.08 \$150
	Variable-speed drives for:		
AC-43210	Chiller compressor—VFD		\$0.08 \$150
AC-78722	Ventilation fan—VFD**		\$0.08 \$150
AC-65847	Cooling tower fan—VFD		\$0.08 \$150
AC-69858	Hot water pump motor—VFD		\$0.08 \$150
AC-74984	Condenser water pump motor—VFD		\$0.08 \$150
AC-84945	Parking garage exhaust fan—VFD		\$0.08 \$150
AC-79531	HVAC compressor controls	TARGETED	\$0.15 \$150
AC-50654	Carbon dioxide (CO <sub>2</sub> ) demand control ventilation	TARGETED	\$0.15 \$150
AC-21212	100% outside air to minimum outside air HVAC conversion		\$0.08 \$150
NA-30864	Other non-lighting (not approved for payment)*		\$0.08 \$150

\* This solution code is not approved for payment. Once reviewed, if the technology is eligible, it will be assigned a solution code (which may be new or existing).

\*\* Only eligible as a Retrofit (RET). New equipment with VFD control not eligible.

\*\*\* Only eligible as a Retrofit (RET). New installations not eligible.

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1. kW incentive applies. Refer to the Appendix: Eligibility requirements for incentive qualifications and detailed calculations.

## OFFICE EQUIPMENT

### COMPUTERS

A programmable device that performs mathematical calculations and logical operations, especially one that can process, store and retrieve large amounts of data very quickly.

**Customized Solution** *Items eligible for Customized Solution incentives are shown below.*

SOLUTION CODE	SOLUTION DESCRIPTION FOR COMPUTERS	INCENTIVE	
		\$/kWh	\$/kW <sup>1</sup>
OE-85746	Data center robot	\$0.08	\$150
OE-19042	Digital data storage consolidation*	\$0.08	\$150
AC-33209	Data center passive rear-door cooling or in-row cooling configuration	\$0.08	\$150
AC-63339	Data center HVAC flow management retrofit	\$0.08	\$150
OE-46386	Efficient UPS modules with Variable Module Management System	\$0.08	\$150
OE-70943	Efficient uninterruptible power supply	\$0.08	\$150
NA-30864	Other non-lighting (not approved for payment)**	\$0.08	\$150

\* Data center virtualization is not eligible for incentives through Customized Solutions.

\*\* This solution code is not approved for payment. Once reviewed, if the technology is eligible, it will be assigned a solution code (which may be new or existing).

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1. kW incentive applies. Refer to the Appendix: Eligibility requirements for incentive qualifications and detailed calculations.

# Energy Efficiency

## Incentives

### OFFICE EQUIPMENT CONTROLS

A system that utilizes remotely controlled power switches and circuit protective devices to reduce electrical load when equipment is not in use.

### PLUG LOAD OCCUPANCY SENSOR

Installation of a plug strip with built-in surge protection that is connected to a small motion sensor that can turn off equipment when the workspace is unoccupied for the user-defined time delay.

#### Express Solution Qualifying Questions

**YES** The answer should be "Yes" to every applicable question in a solution category for a project to qualify for that incentive.

-  Does the retrofit involve the installation of a power strip with passive infrared and/or ultrasonic detectors that turns plugged-in equipment off during no occupancy? Does the occupancy sensor timer delay adjustment not exceed 30 minutes? Does the power strip also include non-controlled plugs? Non-controlled plugs should be used for devices such as PCs and fax machines.
-  Will plug load occupancy sensors control electric equipment in offices or cubicles, or control shared copy machines and/or printers? The occupancy sensor should be capable of sensing in areas up to 300 feet and may not be installed in hallways, commons areas, bathrooms, and hotel or motel guest rooms. Control sensing areas for multiple power strip occupancy sensors shall not overlap or coincide with each other. Is sensor positioned correctly so that nearby foot traffic, other activity outside of work area, or other sources of light do not activate the power strip?
-  Will plug load sensors control a minimum of 50 watts? Controlled equipment should include devices such as space heaters, fans, monitors, task lighting, speakers, and other equipment that can be turned off without disrupting operations. PCs and fax machines should be connected to uncontrolled outlets.

#### Express Solution

SOLUTION CODE	SOLUTION DESCRIPTION FOR OFFICE EQUIPMENT CONTROLS	INCENTIVE
		\$/unit of measure
OE-49876	Plug load occupancy sensor	\$15.00 / sensor

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**PC NETWORK SOFTWARE**

Software that automatically controls the power setting of networked personal computers at the server level.

**Express Solution Qualifying Questions**

**YES** *The answer should be “Yes” to every applicable question in a solution category for a project to qualify for that incentive. If you answer “No” to any question in the Express Solution section, consider a Customized Solution.*

- Will software be installed that automatically controls the power settings of networked personal computers (PC) at the server level? Only desktop computers are eligible and laptops are not eligible for incentive. Software must allow control by network administrators. Software controls cannot be overridden by computer users. Only network administrators may override shutdown controls for scheduled network maintenance (e.g., software updates, security updates, etc.). The software must control both computers and their connected monitors. The time delay until computer power down shall not exceed 60 minutes.
- Are you able to provide the following documentation?
  - Itemized invoice: Should state the quantity of PCs deployed
  - Software license agreement (with software key). License must be in effect for a minimum of five years
  - Workstation index: Hard copy of first page and soft copy complete workstation index
  - Savings report that indicates the number of workstations actually controlled and the savings in kilowatt hours and/or dollars. The incentive is based on the quantity of PCs controlled where software was installed
  - Location of the server housing the software: Must be provided for the installation inspection (at which time another savings report will be witnessed by an SCE inspector)

**Express Solution**

SOLUTION CODE	SOLUTION DESCRIPTION FOR OFFICE EQUIPMENT CONTROLS	INCENTIVE	
		\$/unit of measure	
OE-65003	PC network software	\$15.00 / PC	

**Customized Solution**

SOLUTION CODE	SOLUTION DESCRIPTION FOR OFFICE EQUIPMENT CONTROLS	INCENTIVE	
		\$/kWh	\$/kW <sup>1</sup>
OE-39456	Data center air flow management	\$0.08	\$150
NA-30864	Other non-lighting (not approved for payment)*	\$0.08	\$150

\* This solution code is not approved for payment. Once reviewed, if the technology is eligible, it will be assigned a solution code (which may be new or existing).

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1. kW incentive applies. Refer to the Appendix: Eligibility requirements for incentive qualifications and detailed calculations.

# Energy Efficiency

## Incentives

### MOTORS

#### PREMIUM EFFICIENCY MOTORS

The Energy Independence and Security Act (EISA) of 2007 established new energy conservation standards for electric motors.

To receive incentives, all motors must exceed the energy conservation standards set forth by the EISA of 2007: Section 431.25 part (c) through (g). Efficiency standards can be accessed through one of the following links:

[www1.eere.energy.gov/buildings/appliance\\_standards/eisa2007.html](http://www1.eere.energy.gov/buildings/appliance_standards/eisa2007.html)

or

<http://ecfr.gpoaccess.gov/cgi/t/text/text-idx?type=simple;c=ecfr;cc=ecfr;sid=95e887101886bf65ba7797c77d5c5466;idno=10;region=DIV1;q1=motor;rgn=div5;view=text;node=10%3A3.0.1.4.19#10:-3.0.1.4.19.2.46.10>

#### Customized Solution *Items eligible for Customized Solution incentives are shown below.*

SOLUTION CODE	SOLUTION DESCRIPTION FOR PREMIUM EFFICIENCY MOTORS	INCENTIVE	
		\$/kWh	\$/kW <sup>1</sup>
MT-54002	All motors less than 200 hp*	\$0.08	\$150
MT-80691	Motors greater than 200 hp	\$0.08	\$150
MT-50193	New or added motor load	\$0.08	\$150
MT-65483	Motor generator set replacements	\$0.08	\$150
MT-50941	Constant speed variable load motor controller	\$0.08	\$150
MT-28473	Motor cycling controls	\$0.08	\$150

\* Only eligible as a Retrofit (RET). New installations not eligible.

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1. kW incentive applies. Refer to the Appendix: Eligibility requirements for incentive qualifications and detailed calculations.

## PUMPING

### IRRIGATION

The process of moving water through pipes, ditches and other equipment to irrigate crops.

#### SPRINKLER TO DRIP IRRIGATION

A micro-irrigation system replacing a high-pressure, impact-type, 50+ psi sprinkler irrigation system to reduce water consumption and pressure requirements. New orchards and vineyards must be replacing the same type of crop.

##### Express Solution Qualifying Questions

**YES** The answer should be "Yes" to every applicable question in a solution category for a project to qualify for that incentive.

- Is a micro-irrigation system replacing a high-pressure, impact-type, sprinkler irrigation system (50-psi operating pressure or more at the sprinkler head)? Existing drip tape systems are not eligible. Does new system operate at 30-psi or less? Does the new system include an inlet filter with at 200 mesh or greater filter (75 micron or less)?
- If planting a new vineyard or orchard, was there a previous vineyard or orchard crop on the field? Not applicable to new plantings of vineyards or orchards unless, respectively, a vineyard or orchard was the previous crop on the field. New plantings must be of same acreage as previous crop.
- Can documentation be provided to verify acreage? Include an Assessor's Parcel Map or other documentation to verify acreage.

##### Express Solution

SOLUTION CODE	SOLUTION DESCRIPTION FOR IRRIGATION	INCENTIVE
		\$/unit of measure
	Sprinkler to drip irrigation for:	
PM-32765	Field vegetables	\$44.00 / acre
PM-15009	Deciduous trees	\$44.00 / acre
PM-80400	Vineyards	\$44.00 / acre

#### LOW-PRESSURE SPRINKLER NOZZLES

High-efficiency low-pressure spray heads using rotary nozzles replacing 50+ psi high-pressure sprinkler system nozzles.

##### Express Solution Qualifying Questions

**YES** The answer should be "Yes" to every applicable question in a solution category for a project to qualify for that incentive.

- Is a high-pressure, sprinkler system nozzle (50 psi operating pressure or more at the sprinkler head) being replaced? Portable hand move or solid set systems may apply. Is the new system operating at a pressure of 30 psi or less? Overall system operating pressure should reduce and nozzles should not be installed with pressure regulating valves to reduce high inlet pressure to nozzle's low pressure.
- Will the retrofit be accompanied by a pumping plant analysis to ensure reasonable pumping efficiency (55% overall pumping efficiency or above) after the conversion?

##### Express Solution

SOLUTION CODE	SOLUTION DESCRIPTION FOR IRRIGATION	INCENTIVE
		\$/unit of measure
	Low-pressure sprinkler nozzles:	
PM-57328	Permanent	\$1.15 / nozzle
PM-29652	Portable	\$1.15 / nozzle

# Energy Efficiency

## Incentives

### PUMPS

A device used to move fluids, such as liquids or slurries, or gases. A pump displaces a volume by physical or mechanical action.

**Customized Solution** *Items eligible for Customized Solution incentives are shown below.*

SOLUTION CODE	SOLUTION DESCRIPTION FOR PUMPS	INCENTIVE	
		\$/kWh	\$/kW <sup>1</sup>
PM-26354	Chilled water pump retrofit	\$0.08	\$150
PM-35263	Condenser water pump retrofit	\$0.08	\$150
PM-59487	Heating hot water pumps	\$0.08	\$150
PM-50902	Industrial pump retrofit	\$0.08	\$150
PM-67743	High efficiency pump	\$0.08	\$150
NA-30864	Other non-lighting (not approved for payment)*	\$0.08	\$150

### PUMPING SYSTEM OPTIMIZATION

The process of modifying a pumping system to make some aspect of it more efficient while not reducing the baseline output.

#### Express Solution Qualifying Questions

**YES** *The answer should be "Yes" to every applicable question in a solution category for a project to qualify for that incentive.*

- Is the horsepower rating of the impacted pump less than or equal to ( $\leq$ ) 25hp?
- Is the impacted pump used for agricultural purposes? Please note that industrial pumps do not qualify for these incentives.
- Is the existing pump operational before the overhaul? A nonoperational does not qualify for an incentive. Proof of the pump's operating status, via SCADA data or other documentation, may be required in order to receive the incentive.
- Is the impacted pump type one of the following: Submersible Well, Submersible Booster, Centrifugal Booster, Turbine Booster, or Turbine Well? Please note that specialty pumps with pre-determined low load factors such as fire pumps and storm water pumps do not qualify for an incentive.
- Does the measure include one of the following: replacing the pump bowl assembly/impeller; trimming the existing impeller on a booster pump; or adjusting the bowl and impeller on a deep well pump?
- If adjusting the bowl and impeller on a deep well pump with semi-open impellers, do all impellers in the bowl assembly run in close proximity (0.003 – 0.007 in) to the next lower bowl after adjustment? For enclosed impellers, with a principal seal that is parallel to the centerline of the shaft, a close axial adjustment is not necessary.

#### Express Solution

SOLUTION CODE	SOLUTION DESCRIPTION FOR PUMPING SYSTEM OPTIMIZATION	INCENTIVE
		\$/unit of measure
PR-15002	Turbine booster pump system overhaul ( $\leq$ 25 hp)	\$75.00 / hp
PR-21099	Turbine well pump system overhaul ( $\leq$ 25 hp)	\$75.00 / hp
PR-78421	Centrifugal booster pump system overhaul ( $\leq$ 25 hp)	\$75.00 / hp
PR-89445	Submersible booster pump system overhaul ( $\leq$ 25 hp)	\$75.00 / hp
PR-93334	Submersible well pump system overhaul ( $\leq$ 25 hp)	\$75.00 / hp

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PUMPING SYSTEM OPTIMIZATION, CONTINUED

**Customized Solution** *Items eligible for Customized Solution incentives are shown below.*

SOLUTION CODE	SOLUTION DESCRIPTION FOR PUMPING SYSTEM OPTIMIZATION	INCENTIVE	
		\$/kWh	\$/kW <sup>1</sup>
	Pump system optimization:		
PM-11099	Chilled water pump optimization flow configuration	\$0.08	\$150
PM-46398	Condenser water pump optimization flow configuration	\$0.08	\$150
	Pump system design upgrade:		
PM-58473	Chilled water pump constant flow to variable-flow conversion	\$0.08	\$150
PM-69548	Condenser water pump constant flow to variable-flow conversion	\$0.08	\$150
PM-90843	Vacuum pumping systems	\$0.08	\$150
PM-28564	Clean room	\$0.08	\$150
PM-42142	SCADA system	\$0.08	\$150
PM-29854	High-efficiency pressure-washing system	\$0.08	\$150
PM-39486	Tape drip irrigation system	\$0.08	\$150
PM-29644	Optimize fluid flow system	\$0.08	\$150
NA-30864	Other non-lighting (not approved for payment)*	\$0.08	\$150

**PUMPING CONTROLS**

Electromechanical equipment, electronic devices (e.g., sensors), or automated system utilizing remotely controlled power switching and circuit protective devices to manage multiple interdependent functions.

**Customized Solution** *Items eligible for Customized Solution incentives are shown below.*

SOLUTION CODE	SOLUTION DESCRIPTION FOR PUMPING CONTROLS	INCENTIVE	
		\$/kWh	\$/kW <sup>1</sup>
PM-16109	Pump controls	\$0.08	\$150
PM-70932	Pump off controllers for oil wells	\$0.08	\$150
PM-28467	Water shutoff controls	\$0.08	\$150
PM-93090	Fan controls	\$0.08	\$150
PM-89013	Pressure regulating float valves on stand pipes	\$0.08	\$150
	Variable-speed drives for:		
PM-93654	Milk transfer pump—VSD	\$0.08	\$150
PM-54502	Vacuum pumps—VSD	\$0.08	\$150
PM-14041	Milking vacuum pump—VSD	\$0.08	\$150
PM-32978	Well pump—VSD	\$0.08	\$150
PM-21834	Nonresidential pool pump—VSD	\$0.08	\$150
PM-98434	Wastewater pump—VSD	\$0.08	\$150
PM-35845	Fluid pump—VFD	\$0.08	\$150
NA-30864	Other non-lighting (not approved for payment)*	\$0.08	\$150

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# Energy Efficiency

## Incentives

### PROCESS

#### FANS

Commercial fans generate air currents and ventilation for cooling or heating electric components or subassemblies.

**Customized Solution** *Items eligible for Customized Solution incentives are shown below.*

SOLUTION CODE	SOLUTION DESCRIPTION FOR FANS	INCENTIVE	
		\$/kWh	\$/kW'
PR-48786	36" EE high-volume low-speed exhaust or circulation fans—NEW and RETROFIT	\$0.08	\$150
PR-21210	50"–56" EE high-volume low-speed exhaust or circulation fans—NEW and RETROFIT	\$0.08	\$150
PR-87855	57"–60" EE high-volume low-speed exhaust or circulation fans—NEW and RETROFIT	\$0.08	\$150
PR-48391	20"–26" EE high-volume low-speed exhaust or circulation fans—NEW and RETROFIT	\$0.08	\$150
PR-11217	48" EE high-volume low-speed exhaust or circulation fans—NEW and RETROFIT	\$0.08	\$150
NA-30864	Other non-lighting (not approved for payment)*	\$0.08	\$150

#### COMPRESSED AIR

Air reduced in volume and held under pressure. Force from compressed air is used to operate numerous tools and equipment.

##### Express Solution Qualifying Questions

**YES** *The answer should be "Yes" to every applicable question in a solution category for a project to qualify for that incentive.*

- Do the existing compressors use standard, non-cycling refrigerated compressed air dryers?
- Do the compressors have a horsepower rating less than or equal to ( $\leq$ ) 100hp?
- Do the dryers have a rated capacity less than or equal to ( $<$ ) 400scfm? Applicant must submit the CAGI spec sheet per Standard ADF 100.
- Is the compressed air system used in one of the following sectors: Agricultural; Manufacturing – Bio-Tech or Light Industrial; Industrial; Education – University?

##### Express Solution

SOLUTION CODE	SOLUTION DESCRIPTION FOR COMPRESSED AIR	INCENTIVE	
		\$/unit of measure	
PR-80888	Compressed air system—cycling air dryer	\$200 / dryer 100 scfm	

**Customized Solution** *Items eligible for Customized Solution incentives are shown below.*

SOLUTION CODE	SOLUTION DESCRIPTION FOR COMPRESSED AIR	INCENTIVE	
		\$/kWh	\$/kW'
PR-32303	Air compressor retrofit	\$0.08	\$150
PR-81093	Air compressor consolidation	\$0.08	\$150
NA-30864	Other non-lighting (not approved for payment)*	\$0.08	\$150

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**COMPRESSED GASES**

Any gas, or mixture of gases, that is pressurized and contained in a cylinder or tank.

**Customized Solution** *Items eligible for Customized Solution incentives are shown below.*

SOLUTION CODE	SOLUTION DESCRIPTION FOR DESALTER	INCENTIVE	
		\$/kWh	\$/kW <sup>1</sup>
PR-71632	Phase change retrofit	\$0.08	\$150
PR-87504	Air compressor no-loss drain valves	\$0.08	\$150

**DRYER**

Equipment that produces and applies heated air (convective or direct drying) to reduce air relative humidity.

**Customized Solution** *Items eligible for Customized Solution incentives are shown below.*

SOLUTION CODE	SOLUTION DESCRIPTION FOR DRYER	INCENTIVE	
		\$/kWh	\$/kW <sup>1</sup>
PR-39584	High-efficiency air dryer	\$0.08	\$150
PR-48473	Cycling dryer	\$0.08	\$150
PR-59686	Desiccant dryer	\$0.08	\$150
PR-49439	Drying (UV/IR)	\$0.08	\$150
PR-34212	Heat pumps for drying	\$0.08	\$150
PR-10653	Vertical roller feed dryer for air compressors	\$0.08	\$150
NA-30864	Other non-lighting (not approved for payment)*	\$0.08	\$150

**CHILLER**

A device or unit that removes heat from a liquid via a vapor-compression or absorption refrigeration cycle.

**Customized Solution** *Items eligible for Customized Solution incentives are shown below.*

SOLUTION CODE	SOLUTION DESCRIPTION FOR CHILLER		INCENTIVE	
			\$/kWh	\$/kW <sup>1</sup>
PR-78584	High-efficiency process chiller	<b>TARGETED</b>	\$0.15	\$150
PR-42009	Process chilled water pump system upgrades		\$0.08	\$150
NA-30864	Other non-lighting (not approved for payment)*		\$0.08	\$150

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# Energy Efficiency

## Incentives

### HEAT EXCHANGER

A device built for efficient heat transfer from one medium to another. The media may be separated by a solid wall, so that they never mix, or they may be in direct contact.

**Customized Solution** *Items eligible for Customized Solution incentives are shown below.*

SOLUTION CODE	SOLUTION DESCRIPTION FOR HEAT EXCHANGER	INCENTIVE	
		\$/kWh	\$/kW <sup>1</sup>
PR-95736	Heat exchanger upgrades	\$0.08	\$150
NA-30864	Other non-lighting (not approved for payment)*	\$0.08	\$150

### PROCESS SYSTEM

The process of modifying the mechanical or chemical operations of a system to make some aspect of it more efficient without reducing the baseline production output.

**Customized Solution** *Items eligible for Customized Solution incentives are shown below.*

SOLUTION CODE	SOLUTION DESCRIPTION FOR PROCESS SYSTEM	INCENTIVE	
		\$/kWh	\$/kW <sup>1</sup>
PR-26438	System optimization for fan	\$0.08	\$150
PR-38572	System optimization for compressed air	\$0.08	\$150
PR-60663	Optimize drying process	\$0.08	\$150
PR-85475	Reduce process chiller cooling load	\$0.08	\$150
PR-22866	Air conveying systems	\$0.08	\$150
PR-90809	High-consistency forming	\$0.08	\$150
PR-49586	Wastewater treatment—fine bubble aeration	\$0.08	\$150
PR-58902	Replace V-belts	\$0.08	\$150
PR-68760	Nitrogen tartrate removal system upgrade for wine production	\$0.08	\$150
PR-78924	Adsorption vapor recovery system retrofits	\$0.08	\$150
PR-40970	Gas separation and liquefaction process retrofits	\$0.08	\$150
PR-90877	Low NOx boiler replacing standard low NOx boiler with lowered fan HP requirements	\$0.08	\$150
PR-10911	Replace motor-generator set with solid state power conversion	\$0.08	\$150
NA-30864	Other non-lighting (not approved for payment)*	\$0.08	\$150

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**EXTRUDERS**

A piece of equipment that uses mechanical and thermal actions to change solid polymer into a molten polymer.

**Customized Solution** *Items eligible for Customized Solution incentives are shown below.*

SOLUTION CODE	SOLUTION DESCRIPTION FOR EXTRUDERS	INCENTIVE	
		\$/kWh	\$/kW <sup>1</sup>
PR-89555	Extruders	\$0.08	\$150
PR-43054	Direct-drive extruders	\$0.08	\$150
PR-85031	Intelligent extruder (DOE)	\$0.08	\$150
NA-30864	Other non-lighting (not approved for payment)*	\$0.08	\$150

**INJECTION MOLDING MACHINE**

A machine consisting of two parts, an injection unit and a clamping unit, used for manufacturing plastic products by the injection molding process.

**Customized Solution** *Items eligible for Customized Solution incentives are shown below.*

SOLUTION CODE	SOLUTION DESCRIPTION FOR INJECTION MOLDING MACHINE	INCENTIVE	
		\$/kWh	\$/kW <sup>1</sup>
PR-18583	Injection molding—direct-drive	\$0.08	\$150
PR-78632	Injection molding—new or added load	\$0.08	\$150
PR-87594	Hybrid injection molding machines (hydro-electric)	\$0.08	\$150
PR-28374	All-electric injection molder	\$0.08	\$150
PR-94858	Injection molding—multi-pump	\$0.08	\$150
PR-14374	Pulse cooling for injection molders	\$0.08	\$150
NA-30864	Other non-lighting (not approved for payment)*	\$0.08	\$150

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# Energy Efficiency

## Incentives

### INSULATION

A material that reduces or prevents the transmission of heat or sound or electricity.

**Customized Solution** *Items eligible for Customized Solution incentives are shown below.*

SOLUTION CODE	SOLUTION DESCRIPTION FOR INSULATION	INCENTIVE	
		\$/kWh	\$/kW <sup>1</sup>
PR-38737	Injection molder barrel insulation	\$0.08	\$150
NA-30864	Other non-lighting (not approved for payment)*	\$0.08	\$150

### GRINDER

A machine tool that polishes metal.

**Customized Solution** *Items eligible for Customized Solution incentives are shown below.*

SOLUTION CODE	SOLUTION DESCRIPTION FOR GRINDER	INCENTIVE	
		\$/kWh	\$/kW <sup>1</sup>
PR-43909	Efficient grinding	\$0.08	\$150
NA-30864	Other non-lighting (not approved for payment)*	\$0.08	\$150

### MELTER

A piece of equipment used to melt a substance (e.g., a furnace used for melting iron in a foundry).

**Customized Solution** *Items eligible for Customized Solution incentives are shown below.*

SOLUTION CODE	SOLUTION DESCRIPTION FOR MELTER	INCENTIVE	
		\$/kWh	\$/kW <sup>1</sup>
PR-65701	Efficient electric melting	\$0.08	\$150
NA-30864	Other non-lighting (not approved for payment)*	\$0.08	\$150

\* This solution code is not approved for payment. Once reviewed, if the technology is eligible, it will be assigned a solution code (which may be new or existing).

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1. kW incentive applies. Refer to the Appendix: Eligibility requirements for incentive qualifications and detailed calculations.

**OVEN**

An enclosed compartment for heating, baking or drying.

**Customized Solution** *Items eligible for Customized Solution incentives are shown below.*

SOLUTION CODE	SOLUTION DESCRIPTION FOR OVEN	INCENTIVE	
		\$/kWh	\$/kW <sup>1</sup>
PR-67492	Efficient curing ovens	\$0.08	\$150
NA-30864	Other non-lighting (not approved for payment)*	\$0.08	\$150

**DESALTER**

A process unit on an oil refinery that removes salt from the crude oil.

**Customized Solution** *Items eligible for Customized Solution incentives are shown below.*

SOLUTION CODE	SOLUTION DESCRIPTION FOR DESALTER	INCENTIVE	
		\$/kWh	\$/kW <sup>1</sup>
PR-71213	Efficient desalter	\$0.08	\$150
NA-30864	Other non-lighting (not approved for payment)*	\$0.08	\$150

\* This solution code is not approved for payment. Once reviewed, if the technology is eligible, it will be assigned a solution code (which may be new or existing).

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1. kW incentive applies. Refer to the Appendix: Eligibility requirements for incentive qualifications and detailed calculations.

# Energy Efficiency

## Incentives

### BLOWER

A device that produces a current of air using a wheel to draw air through the inlet of the blower housing, and discharge it at 90 degrees through the discharge of the housing.

#### Express Solution Qualifying Questions

**YES** *The answer should be "Yes" to every applicable question in a solution category for a project to qualify for that incentive.*

- Does existing compressed air system use an electric driven rotary screw compressor(s), with a horsepower rating between 25 hp and 500 hp? Systems with centrifugal compressors are eligible if there are other trim compressors which are rotary screw or reciprocating compressors. Please note that systems with steam turbine or engine driven compressors do not qualify for this incentive.
- Is the existing compressor(s) permanently installed? Portable compressors are not eligible for this measure.
- Is the horsepower rating of the installed blower less than or equal to ( $\leq$ ) 50hp?
- Is the blower used in one of the following sectors: Agricultural; Health/Medical – Hospital, or Clinic; Manufacturing – Bio-Tech or Light Industrial; Industrial; or Retail – Single-Story Large?

#### Express Solution

SOLUTION CODE	SOLUTION DESCRIPTION FOR BLOWER	INCENTIVE
		\$/unit of measure
PR-78447	Industrial blower replacing air compressor system	\$500.00 / blower hp

\* This solution code is not approved for payment. Once reviewed, if the technology is eligible, it will be assigned a solution code (which may be new or existing).

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**PROCESS CONTROLS**

Sensors or automated systems utilize remotely controlled power switching and circuit protective devices to manage multiple interdependent components.

**Express Solution Qualifying Questions**

**YES** *The answer should be “Yes” to every applicable question in a solution category for a project to qualify for that incentive.*

**For VSD on Air Compressor Control:**

- Are Variable Speed Drive controls being added to an existing rotary screw compressor?
- Does the existing compressor have a horsepower rating between 15hp and 500hp? Supporting documentation for horsepower rating must be provided.
- Is the existing compressor using load/unload controls?
- Is the compressor permanently installed? Portable compressors do not qualify for these incentives.
- Does the compressor operate in a “stand-alone” capacity or as a trim compressor? The compressor cannot be base loaded in a multiple compressor system.
- Is the compressor used in one of the following sectors: Agricultural; Health/Medical – Hospital or Clinic; Manufacturing – Bio-Tech or Light Industrial; Industrial; or, Retail – Single-Story Large?

**For VSD on Process Fan Control:**

- Are Variable Speed Drive controls being added to an existing process fan? Fans used for the building HVAC system or refrigeration processes are not eligible under this measure.
- Does the existing fan have a rated motor horsepower greater than (>) 3hp, but less than or equal to (<=) 75hp?
- Is the existing motor running continuously or are the controls limited to an ON/OFF control switch?
- Is the process fan used in one of the following sectors: Manufacturing – Bio-Tech or Light Industrial; or Industrial?

**Express Solution**

SOLUTION CODE	SOLUTION DESCRIPTION FOR PROCESS CONTROLS	INCENTIVE
		\$/unit of measure
PR-34445	15 up to 50 hp variable speed drive on air compressor control	\$75.00 / hp
PR-50059	5 up to 15 hp variable speed drive on air compressor control	\$75.00 / hp
PR-90127	Variable speed drive on process fan control (≤ 75 hp)	\$75.00 / hp

\* This solution code is not approved for payment. Once reviewed, if the technology is eligible, it will be assigned a solution code (which may be new or existing).

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# Energy Efficiency

## Incentives

### PROCESS CONTROLS, CONTINUED

#### Customized Solution *Items eligible for Customized Solution incentives are shown below.*

SOLUTION CODE	SOLUTION DESCRIPTION FOR PROCESS CONTROLS	INCENTIVE	
		\$/kWh	\$/kW <sup>1</sup>
	Variable-speed drives for:		
PR-94826	Dust collector—VFD	\$0.08	\$150
PR-93841	Air compressor—VFD**	\$0.08	\$150
PR-10192	Wastewater treatment—blower VFD	\$0.08	\$150
PR-34895	Wastewater aerator blower—VFD	\$0.08	\$150
PR-20847	Process motor—VFD	\$0.08	\$150
PR-90435	Blower—VFD	\$0.08	\$150
PR-48832	Autoclave fans—VFD	\$0.08	\$150
PR-32454	Car wash vacuum pumps—VFD	\$0.08	\$150
PR-19283	Air compressor intermediate flow controller	\$0.08	\$150
PR-17464	Wastewater controls	\$0.08	\$150
PR-93874	Process chiller controls	\$0.08	\$150
PR-32856	Air compressor system control**	\$0.08	\$150
PR-98124	Install bypass controls for a metal cleaning system	\$0.08	\$150
PR-89417	Collection control system	\$0.08	\$150
PR-89584	Molding machine controls	\$0.08	\$150
PR-69972	Process laser control	\$0.08	\$150
PR-21879	Combustion air blower flow controls	\$0.08	\$150
NA-30864	Other non-lighting (not approved for payment)*	\$0.08	\$150

### STORAGE TANKS

A container, usually for holding liquids, sometimes for compressed gases (gas tank).

#### Customized Solution *Items eligible for Customized Solution incentives are shown below.*

SOLUTION CODE	SOLUTION DESCRIPTION FOR STORAGE TANKS	INCENTIVE	
		\$/kWh	\$/kW <sup>1</sup>
PR-50498	Add storage tanks to prevent compressor short cycling	\$0.08	\$150
NA-30864	Other non-lighting (not approved for payment)*	\$0.08	\$150

\* This solution code is not approved for payment. Once reviewed, if the technology is eligible, it will be assigned a solution code (which may be new or existing).

\*\* Only eligible as a Retrofit Add-on (REA). New equipment with VFD control not eligible.

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1. kW incentive applies. Refer to the Appendix: Eligibility requirements for incentive qualifications and detailed calculations.

**BATTERY CHARGING**

A device for charging or recharging batteries.

**Customized Solution** *Items eligible for Customized Solution incentives are shown below.*

SOLUTION CODE	SOLUTION DESCRIPTION FOR BATTERY CHARGING	INCENTIVE	
		\$/kWh	\$/kW <sup>1</sup>
PR-69844	Efficient battery charger	\$0.08	\$150

**LAMINATOR**

The process or machine that builds up successive layers of a substance and bonds them with resin to form a finished product.

**Customized Solution** *Items eligible for Customized Solution incentives are shown below.*

SOLUTION CODE	SOLUTION DESCRIPTION FOR BATTERY CHARGING	INCENTIVE	
		\$/kWh	\$/kW <sup>1</sup>
PR-64722	Efficient lamination machine	\$0.08	\$150
NA-30864	Other non-lighting (not approved for payment)*	\$0.08	\$150

**WET CLEANING**

Utilizes computer-controlled washing machines, biodegradable soaps and conditioners, and various types of pressing equipment that may be specialized for many different fabric and fiber types.

**Customized Solution** *Items eligible for Customized Solution incentives are shown below.*

SOLUTION CODE	SOLUTION DESCRIPTION FOR WET CLEANING	INCENTIVE	
		\$/kWh	\$/kW <sup>1</sup>
PR-63889	Professional wet cleaning equipment	\$0.08	\$150
NA-30864	Other non-lighting (not approved for payment)*	\$0.08	\$150

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# Retrocommissioning (RCx)

## Incentives

# Apply

### RETROCOMMISSIONING SOLUTIONS

#### What is RCx?

Retrocommissioning (RCx) is a systematic process for investigating an existing building's operations and identifying opportunities to improve occupant comfort, save energy, and lower electricity bills. RCx solutions focus on operations and maintenance improvements rather than retrofits and equipment upgrades.

#### Who can participate in the RCx Program?

To be eligible for SCE's RCx Program, you must:

- Be an SCE customer paying the California public goods charge on your utility bill.
- Own or operate a commercial building that has at least 25,000 square feet of conditioned space with mechanical equipment in relatively good condition.
- Commit to implementing agreed-upon RCx solutions within 12 months of SCE's approval of the Incentives Application.

#### Who can conduct an RCx project?

Only Authorized RCx Providers may conduct an RCx project. An RCx Provider firm must apply for qualification by SCE prior to appearing in the Vendor Directory. They must also attend trainings and agree to adhere to the Program Guidelines in order to participate in the program.

#### How does it work?

Use the diagram to the right to help guide you through the process.

#### What incentives are available?

The following pages show the incentive rates for available RCx solutions. These incentives are capped at 50% of total project implementation costs.

In addition, the RCx program also offers a Kicker Incentive. When the RCx Training Completion Form is submitted at the completion of the project, you can earn an additional \$0.055/kWh incentive. The Kicker Incentive is not subject to the 50% implementation cost cap.

**FOR MORE INFORMATION, CONTACT  
YOUR SCE ACCOUNT MANAGER,  
VISIT OUR WEBSITE AT [SCE-RCX.COM](http://SCE-RCX.COM),  
OR EMAIL US AT [INFO@SCE-RCX.COM](mailto:INFO@SCE-RCX.COM).**

**How do I apply for an RCx incentive?**

Your selected Authorized RCx Provider will conduct an RCx Investigation in accordance with Program Guidelines, and then submit an Incentives Application through SCE's Online Application Tool.

Actual energy and demand savings are calculated on a project-by-project basis. Pre- and post-inspections, as well as monitoring and verification, are required to show the change in operation after the implementation of RCx solutions.

**How do I get started?**

Please go to SCE's Vendor Directory and choose an Authorized RCx Provider to get started with an Investigation of your building.

**How can I find out more?**

Please contact your SCE Account Manager, visit our website at [sce-rcx.com](http://sce-rcx.com), or email us at [info@sce-rcx.com](mailto:info@sce-rcx.com).

**Seek out and contract with an Authorized RCx Provider for your project using SCE's Vendor Directory.**

**Your Authorized Provider will conduct an RCx investigation, identify measures, calculate energy savings, and submit an Incentives Application through SCE's Online Application Tool.**

**A reviewer will conduct a calculation review. When the Application is approved, you and your Provider will receive a Project Approval Letter and the Installation Report.**

**Proceed with installation of the project.**

**Your Provider will complete and return the Installation Report with the required supporting documentation to SCE.**

**A reviewer will conduct another calculation review. When the project is approved, you and your Provider will receive a Project Approval Notification.**

**Your Provider will conduct training with your building staff and submit the Training Form.**

**SCE will issue the Incentive check, and Kicker Incentive if applicable.**

# Retrocommissioning

## Incentives

### HVAC

#### AIR DISTRIBUTION

**Customized Solution** *Items eligible for Customized Solution incentives are shown below.*

SOLUTION CODE	SOLUTION DESCRIPTION FOR AIR DISTRIBUTION	INCENTIVES		
		Energy \$/kWh	Demand \$/kW <sup>1</sup>	Gas \$/therm <sup>2</sup>
AC-76856	Repair VAV boxes — retrocommissioning	\$0.08	\$150	\$1
AC-87967	Perform air balance — retrocommissioning	\$0.08	\$150	\$1

#### AIR FILTER

**Customized Solution** *Items eligible for Customized Solution incentives are shown below.*

SOLUTION CODE	SOLUTION DESCRIPTION FOR AIR FILTER	INCENTIVES		
		Energy \$/kWh	Demand \$/kW <sup>1</sup>	Gas \$/therm <sup>2</sup>
AC-34353	Clean air filter — retrocommissioning	\$0.08	\$150	\$1
AC-45354	Replace standard air filter with high performance filter — retrocommissioning	\$0.08	\$150	\$1

#### COOLING TOWER

**Customized Solution** *Items eligible for Customized Solution incentives are shown below.*

SOLUTION CODE	SOLUTION DESCRIPTION FOR COOLING TOWER	INCENTIVES		
		Energy \$/kWh	Demand \$/kW <sup>1</sup>	Gas \$/therm <sup>2</sup>
AC-83744	Repair cooling tower leaks — retrocommissioning	\$0.08	\$150	\$1
AC-91543	Replace or optimize HVAC condenser/cooling tower media — retrocommissioning	\$0.08	\$150	\$1

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2. Incentives for natural gas savings (therms) are available for eligible SoCalGas customers only.

## DUCTS

### Customized Solution *Items eligible for Customized Solution incentives are shown below.*

SOLUTION CODE	SOLUTION DESCRIPTION FOR DUCTS	INCENTIVES		
		Energy \$/kWh	Demand \$/kW <sup>1</sup>	Gas \$/therm <sup>2</sup>
AC-67367	Clean air ducts — retrocommissioning	\$0.08	\$150	\$1
AC-90955	Repair ductwork with aerosol sealant — retrocommissioning	\$0.08	\$150	\$1

## ECONOMIZERS

### Customized Solution *Items eligible for Customized Solution incentives are shown below.*

SOLUTION CODE	SOLUTION DESCRIPTION FOR ECONOMIZERS	INCENTIVES		
		Energy \$/kWh	Demand \$/kW <sup>1</sup>	Gas \$/therm <sup>2</sup>
AC-34874	Repair airside economizer — retrocommissioning	\$0.08	\$150	\$1
AC-71633	Repair or optimize waterside economizer — retrocommissioning	\$0.08	\$150	\$1

## EVAPORATORS

### Customized Solution *Items eligible for Customized Solution incentives are shown below.*

SOLUTION CODE	SOLUTION DESCRIPTION FOR EVAPORATORS	INCENTIVES		
		Energy \$/kWh	Demand \$/kW <sup>1</sup>	Gas \$/therm <sup>2</sup>
AC-29677	Repair evaporator coil leaks — retrocommissioning	\$0.08	\$150	\$1
AC-56456	Clean evaporator coils — retrocommissioning	\$0.08	\$150	\$1

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# Retrocommissioning

## Incentives

### FANS

**Customized Solution** *Items eligible for Customized Solution incentives are shown below.*

SOLUTION CODE	SOLUTION DESCRIPTION FOR FANS	INCENTIVES		
		Energy \$/kWh	Demand \$/kW <sup>1</sup>	Gas \$/therm <sup>2</sup>
AC-13090	Replace fan belts with high efficiency belts — retrocommissioning	\$0.08	\$150	\$1
AC-20006	Adjust or re-fit fan belts — retrocommissioning	\$0.08	\$150	\$1
AC-66897	Repair or clean fans — retrocommissioning	\$0.08	\$150	\$1
AC-53395	Replace fan motor with new motor — retrocommissioning	\$0.08	\$150	\$1
AC-69803	Removal or adjustment of inlet guide vanes for fans with VFDs — retrocommissioning	\$0.08	\$150	\$1

### HVAC CONTROLS

**Customized Solution** *Items eligible for Customized Solution incentives are shown below.*

SOLUTION CODE	SOLUTION DESCRIPTION FOR HVAC CONTROLS	INCENTIVES		
		Energy \$/kWh	Demand \$/kW <sup>1</sup>	Gas \$/therm <sup>2</sup>
AC-57213	Optimize HVAC boiler sequencing — retrocommissioning	\$0.08	\$150	\$1
AC-16729	Adjust chiller water lockout — retrocommissioning	\$0.08	\$150	\$1
AC-10166	Repair or optimize supply fan VFD — retrocommissioning	\$0.08	\$150	\$1
AC-12765	Optimize chiller sequencing — retrocommissioning	\$0.08	\$150	\$1
AC-19642	Repair or optimize Carbon Dioxide (CO2) Demand Control Ventilation — retrocommissioning	\$0.08	\$150	\$1
AC-19845	Optimize room temperature setpoints — retrocommissioning	\$0.08	\$150	\$1
AC-24456	Repair or optimize return fan VFD — retrocommissioning	\$0.08	\$150	\$1
AC-25486	Adjust zone temperature deadband — retrocommissioning	\$0.08	\$150	\$1
AC-27534	Repair or optimize fan static pressure controls — retrocommissioning	\$0.08	\$150	\$1
AC-28476	Repair or optimize exhaust fan VFD — retrocommissioning	\$0.08	\$150	\$1
AC-37684	Optimize VAV box flow — retrocommissioning	\$0.08	\$150	\$1
AC-38143	Optimize HVAC control loop tuning — retrocommissioning	\$0.08	\$150	\$1
AC-48273	Repair or optimize chiller water compressor VFD — retrocommissioning	\$0.08	\$150	\$1
AC-48587	Optimize zone set-up and setback — retrocommissioning	\$0.08	\$150	\$1
AC-48675	Optimize exhaust fan schedule — retrocommissioning	\$0.08	\$150	\$1
AC-49858	Adjust chiller water reset — retrocommissioning	\$0.08	\$150	\$1
AC-56476	Optimize return fan schedule — retrocommissioning	\$0.08	\$150	\$1
AC-59491	Adjust supply air temperature reset — retrocommissioning	\$0.08	\$150	\$1
AC-61048	Reduce deck static pressure — retrocommissioning	\$0.08	\$150	\$1
AC-65342	Optimize HVAC boiler schedule — retrocommissioning	\$0.08	\$150	\$1
AC-73518	Optimize sizing of heating equipment — retrocommissioning	\$0.08	\$150	\$1

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## HVAC CONTROLS, CONTINUED

**Customized Solution** *Items eligible for Customized Solution incentives are shown below.*

SOLUTION CODE	SOLUTION DESCRIPTION FOR HVAC CONTROLS	INCENTIVES		
		Energy \$/kWh	Demand \$/kW <sup>1</sup>	Gas \$/therm <sup>2</sup>
AC-78325	Repair or optimize air handler controls — retrocommissioning	\$0.08	\$150	\$1
AC-79695	Revise supply fan schedule — retrocommissioning	\$0.08	\$150	\$1
AC-84943	Adjust condenser water reset — retrocommissioning	\$0.08	\$150	\$1
AC-86734	Repair or optimize fan static pressure reset — retrocommissioning	\$0.08	\$150	\$1
AC-89223	Optimize HVAC pressure setting — retrocommissioning	\$0.08	\$150	\$1
AC-89556	Optimize HVAC chiller plant schedule — retrocommissioning	\$0.08	\$150	\$1
AC-89657	Repair or optimize hot water reset — retrocommissioning	\$0.08	\$150	\$1
AC-90217	Optimize HVAC condenser water or cooling tower pump sequencing — retrocommissioning	\$0.08	\$150	\$1
AC-90765	Repair or optimize outdoor air intake — retrocommissioning	\$0.08	\$150	\$1
AC-93844	Repair or optimize cooling tower VFD — retrocommissioning	\$0.08	\$150	\$1
AC-98234	Optimize HVAC condenser water or cooling tower fan schedule — retrocommissioning	\$0.08	\$150	\$1
AC-98504	Repair or optimize hot water pump VFD — retrocommissioning	\$0.08	\$150	\$1
AC-76274	Data center airside HVAC controls — retrocommissioning	\$0.08	\$150	\$1
AC-59870	Repair or optimize space static pressure controls — retrocommissioning	\$0.08	\$150	\$1

## HVAC SYSTEMS

**Customized Solution** *Items eligible for Customized Solution incentives are shown below.*

SOLUTION CODE	SOLUTION DESCRIPTION FOR HVAC SYSTEMS	INCENTIVES		
		Energy \$/kWh	Demand \$/kW <sup>1</sup>	Gas \$/therm <sup>2</sup>
AC-34448	Lubricate motors, pumps or blower fans — retrocommissioning	\$0.08	\$150	\$1
AC-39970	Removal or adjustment of fan sound attenuators — retrocommissioning	\$0.08	\$150	\$1
AC-56543	Optimize sizing of cooling equipment — retrocommissioning	\$0.08	\$150	\$1
AC-59408	Repair, optimize or reconfigure HVAC condenser water system — retrocommissioning	\$0.08	\$150	\$1
AC-68894	Optimize HVAC water loop balancing — retrocommissioning	\$0.08	\$150	\$1
AC-70698	Adjust refrigerant level — retrocommissioning	\$0.08	\$150	\$1
AC-23784	Reduce HVAC valve leakage — retrocommissioning	\$0.08	\$150	\$1
AC-40495	Trim pump impeller — retrocommissioning	\$0.08	\$150	\$1

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# Retrocommissioning

## Incentives

### PIPING

**Customized Solution** *Items eligible for Customized Solution incentives are shown below.*

SOLUTION CODE	SOLUTION DESCRIPTION FOR PIPING	INCENTIVES		
		Energy \$/kWh	Demand \$/kW <sup>1</sup>	Gas \$/therm <sup>2</sup>
AC-11367	Repair refrigerant piping leaks — retrocommissioning	\$0.08	\$150	\$1
AC-98367	Repair cooling medium piping leaks — retrocommissioning	\$0.08	\$150	\$1

### HVAC SENSORS

**Customized Solution** *Items eligible for Customized Solution incentives are shown below.*

SOLUTION CODE	SOLUTION DESCRIPTION FOR HVAC SENSORS	INCENTIVES		
		Energy \$/kWh	Demand \$/kW <sup>1</sup>	Gas \$/therm <sup>2</sup>
AC-38286	Repair or optimize HVAC pressure sensor — retrocommissioning	\$0.08	\$150	\$1
AC-58687	Calibrate HVAC sensor — retrocommissioning	\$0.08	\$150	\$1
AC-60890	Repair or optimize HVAC flow sensor — retrocommissioning	\$0.08	\$150	\$1
AC-85607	Repair or optimize HVAC temperature sensor — retrocommissioning	\$0.08	\$150	\$1

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## LIGHTING

### LIGHTING CONTROLS

**Customized Solution** *Items eligible for Customized Solution incentives are shown below.*

SOLUTION CODE	SOLUTION DESCRIPTION FOR LIGHTING CONTROLS	INCENTIVES		
		Energy \$/kWh	Demand \$/kW <sup>1</sup>	Gas \$/therm <sup>2</sup>
LT-23876	Optimize lighting occupancy sensors — retrocommissioning	\$0.08	\$150	\$1
LT-36754	Repair or optimize daylighting controls — retrocommissioning	\$0.08	\$150	\$1
LT-79695	Reduce lighting schedule — retrocommissioning	\$0.08	\$150	\$1
LT-85495	Repair occupancy sensors — retrocommissioning	\$0.08	\$150	\$1

### LINEAR FLUORESCENT

**Customized Solution** *Items eligible for Customized Solution incentives are shown below.*

SOLUTION CODE	SOLUTION DESCRIPTION FOR LINEAR FLUORESCENT	INCENTIVES		
		Energy \$/kWh	Demand \$/kW <sup>1</sup>	Gas \$/therm <sup>2</sup>
LT-59984	Interior linear fluorescent de-lamping — retrocommissioning	\$0.08	\$150	\$1
LT-69454	Exterior linear fluorescent de-lamping — retrocommissioning	\$0.08	\$150	\$1

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# Retrocommissioning

## Incentives

### MOTORS

#### MOTOR CONTROLS

**Customized Solution** *Items eligible for Customized Solution incentives are shown below.*

SOLUTION CODE	SOLUTION DESCRIPTION FOR MOTOR CONTROLS	INCENTIVES		
		Energy \$/kWh	Demand \$/kW <sup>1</sup>	Gas \$/therm <sup>2</sup>
MT-41009	Repair or optimize non-process motor VFD — retrocommissioning	\$0.08	\$150	\$1

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## PROCESS

### COMPRESSED AIR

**Customized Solution** *Items eligible for Customized Solution incentives are shown below.*

SOLUTION CODE	SOLUTION DESCRIPTION FOR COMPRESSED AIR	INCENTIVES		
		Energy \$/kWh	Demand \$/kW <sup>1</sup>	Gas \$/therm <sup>2</sup>
PR-10476	Right sizing air compressor — retrocommissioning	\$0.08	\$150	\$1
PR-13321	Relocate air compressor inlet — retrocommissioning	\$0.08	\$150	\$1
PR-40967	Compressed air central plant tie-in — retrocommissioning	\$0.08	\$150	\$1
PR-88930	Replace or repair air compressor no-loss drain valves — retrocommissioning	\$0.08	\$150	\$1
PR-90244	Repair or optimize efficient air compressor — retrocommissioning	\$0.08	\$150	\$1
PR-90548	Reduce compressed air pressure setting — retrocommissioning	\$0.08	\$150	\$1

### INSULATION

**Customized Solution** *Items eligible for Customized Solution incentives are shown below.*

SOLUTION CODE	SOLUTION DESCRIPTION FOR INSULATION	INCENTIVES		
		Energy \$/kWh	Demand \$/kW <sup>1</sup>	Gas \$/therm <sup>2</sup>
PR-87686	Replace or repair process equipment insulation — retrocommissioning	\$0.08	\$150	\$1

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# Retrocommissioning

## Incentives

### PROCESS CONTROLS

**Customized Solution** *Items eligible for Customized Solution incentives are shown below.*

SOLUTION CODE	SOLUTION DESCRIPTION FOR PROCESS CONTROLS	INCENTIVES		
		Energy \$/kWh	Demand \$/kW <sup>1</sup>	Gas \$/therm <sup>2</sup>
PR-10231	Optimize process condenser water or cooling tower fan schedule — retrocommissioning	\$0.08	\$150	\$1
PR-11090	Repair or optimize process furnace controls — retrocommissioning	\$0.08	\$150	\$1
PR-14440	Optimize sizing of compressed air receiver tank — retrocommissioning	\$0.08	\$150	\$1
PR-19385	Optimize process condenser water or cooling tower pump sequencing — retrocommissioning	\$0.08	\$150	\$1
PR-29086	Optimized air compressor sequencing — retrocommissioning	\$0.08	\$150	\$1
PR-29812	Compressed air distribution modification — retrocommissioning	\$0.08	\$150	\$1
PR-30076	Optimize sizing of central plant supply line — retrocommissioning	\$0.08	\$150	\$1
PR-30497	Optimize process pump schedule — retrocommissioning	\$0.08	\$150	\$1
PR-34654	Repair or optimize process motor VFD — retrocommissioning	\$0.08	\$150	\$1
PR-39765	Compressed air system repair — retrocommissioning	\$0.08	\$150	\$1
PR-39968	Install timed control on an electric process heater — retrocommissioning	\$0.08	\$150	\$1
PR-48121	Optimize process control loop tuning — retrocommissioning	\$0.08	\$150	\$1
PR-56687	Repair or optimize air compressor VFD — retrocommissioning	\$0.08	\$150	\$1
PR-75324	Optimize process boiler schedule — retrocommissioning	\$0.08	\$150	\$1
PR-78273	Repair or optimize air compressor intermediate flow controller — retrocommissioning	\$0.08	\$150	\$1
PR-89433	Compressed air system maintenance — retrocommissioning	\$0.08	\$150	\$1
PR-90498	Optimize process boiler sequencing — retrocommissioning	\$0.08	\$150	\$1
PR-98023	Optimize process pressure setting — retrocommissioning	\$0.08	\$150	\$1
PR-98454	Optimize process chiller plant schedule — retrocommissioning	\$0.08	\$150	\$1

### PROCESS FANS

**Customized Solution** *Items eligible for Customized Solution incentives are shown below.*

SOLUTION CODE	SOLUTION DESCRIPTION FOR PROCESS FANS	INCENTIVES		
		Energy \$/kWh	Demand \$/kW <sup>1</sup>	Gas \$/therm <sup>2</sup>
PR-65434	Right sizing fans — retrocommissioning	\$0.08	\$150	\$1

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## PROCESS SENSOR

**Customized Solution** *Items eligible for Customized Solution incentives are shown below.*

SOLUTION CODE	SOLUTION DESCRIPTION FOR PROCESS SENSOR	INCENTIVES		
		Energy \$/kWh	Demand \$/kW <sup>1</sup>	Gas \$/therm <sup>2</sup>
PR-49796	Repair or optimize process pressure sensor — retrocommissioning	\$0.08	\$150	\$1
PR-67384	Calibrate process sensor — retrocommissioning	\$0.08	\$150	\$1
PR-67985	Repair or optimize process temperature sensor — retrocommissioning	\$0.08	\$150	\$1
PR-71524	Repair or optimize process flow sensor — retrocommissioning	\$0.08	\$150	\$1

## PROCESS SYSTEMS

**Customized Solution** *Items eligible for Customized Solution incentives are shown below.*

SOLUTION CODE	SOLUTION DESCRIPTION FOR PROCESS SYSTEMS	INCENTIVES		
		Energy \$/kWh	Demand \$/kW <sup>1</sup>	Gas \$/therm <sup>2</sup>
PR-30031	Reduce process valve leakage — retrocommissioning	\$0.08	\$150	\$1
PR-40778	Install recessed plate filter press — retrocommissioning	\$0.08	\$150	\$1
PR-43665	Optimize performance of bag processing machine — retrocommissioning	\$0.08	\$150	\$1
PR-43981	Repair, optimize or reconfigure process condenser water system — retrocommissioning	\$0.08	\$150	\$1
PR-45734	Water main infrastructure repair or replacement — retrocommissioning	\$0.08	\$150	\$1
PR-78834	Optimize process water loop balancing — retrocommissioning	\$0.08	\$150	\$1
PR-83339	Water leak detection and repair — retrocommissioning	\$0.08	\$150	\$1
PR-87187	Online water loss monitoring system — retrocommissioning	\$0.08	\$150	\$1
PR-90007	Water pressure management with pressure reducing valves — retrocommissioning	\$0.08	\$150	\$1

## PROCESS PUMPS

**Customized Solution** *Items eligible for Customized Solution incentives are shown below.*

SOLUTION CODE	SOLUTION DESCRIPTION FOR PROCESS PUMPS	INCENTIVES		
		Energy \$/kWh	Demand \$/kW <sup>1</sup>	Gas \$/therm <sup>2</sup>
PR-23985	Optimize performance of process pump — retrocommissioning	\$0.08	\$150	\$1

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# Retrocommissioning

## Incentives

### PUMPING

#### PUMPING CONTROLS

**Customized Solution** *Items eligible for Customized Solution incentives are shown below.*

SOLUTION CODE	SOLUTION DESCRIPTION FOR PUMPING CONTROLS	INCENTIVES		
		Energy \$/kWh	Demand \$/kW <sup>1</sup>	Gas \$/therm <sup>2</sup>
PM-15246	Repair or optimize pump timer controls — retrocommissioning	\$0.08	\$150	\$1
PM-15662	Optimize chilled water pump sequencing — retrocommissioning	\$0.08	\$150	\$1
PM-19854	Optimize chilled water pump schedule — retrocommissioning	\$0.08	\$150	\$1
PM-23156	Optimize hot water pump schedule — retrocommissioning	\$0.08	\$150	\$1
PM-23862	Repair or optimize chilled water pump VFD — retrocommissioning	\$0.08	\$150	\$1
PM-28579	Repair water pump level control system — retrocommissioning	\$0.08	\$150	\$1
PM-39807	Optimize condenser water pump schedule — retrocommissioning	\$0.08	\$150	\$1
PM-50934	Repair or optimize condenser water pump VFD — retrocommissioning	\$0.08	\$150	\$1
PM-83657	Optimize hot water pump sequencing — retrocommissioning	\$0.08	\$150	\$1
PM-90501	Adjust hot water lockout — retrocommissioning	\$0.08	\$150	\$1

#### PUMPING SYSTEMS

**Customized Solution** *Items eligible for Customized Solution incentives are shown below.*

SOLUTION CODE	SOLUTION DESCRIPTION FOR PUMPING SYSTEMS	INCENTIVES		
		Energy \$/kWh	Demand \$/kW <sup>1</sup>	Gas \$/therm <sup>2</sup>
PM-10485	Industrial pump system overhaul — retrocommissioning	\$0.08	\$150	\$1
PM-21954	Improve performance of pumped fluid distribution piping — retrocommissioning	\$0.08	\$150	\$1
PM-30194	Optimize chilled water pump configuration — retrocommissioning	\$0.08	\$150	\$1
PM-48734	Wastewater — retrocommissioning	\$0.08	\$150	\$1
PM-58371	Optimize pump discharge valve — retrocommissioning	\$0.08	\$150	\$1
PM-60798	Optimize condenser water pump configuration — retrocommissioning	\$0.08	\$150	\$1
PM-90890	Agricultural pump system overhaul — retrocommissioning	\$0.08	\$150	\$1

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## PUMPS

**Customized Solution** *Items eligible for Customized Solution incentives are shown below.*

SOLUTION CODE	SOLUTION DESCRIPTION FOR PUMPS	INCENTIVES		
		Energy \$/kWh	Demand \$/kW <sup>1</sup>	Gas \$/therm <sup>2</sup>
PM-25454	Trim pump impeller — retrocommissioning	\$0.08	\$150	\$1
PM-27202	Right sizing pumps — retrocommissioning	\$0.08	\$150	\$1
PM-71938	Repair or optimize chilled water pump — retrocommissioning	\$0.08	\$150	\$1

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# Retrocommissioning

## Incentives

### REFRIGERATION

#### REFRIGERATION CONTROLS

**Customized Solution** *Items eligible for Customized Solution incentives are shown below.*

SOLUTION CODE	SOLUTION DESCRIPTION FOR REFRIGERATION CONTROLS	INCENTIVES		
		Energy \$/kWh	Demand \$/kW <sup>1</sup>	Gas \$/therm <sup>2</sup>
RF-10217	Repair or optimize refrigeration compressor controls — retrocommissioning	\$0.08	\$150	\$1
RF-10512	Optimize refrigeration pressure setting — retrocommissioning	\$0.08	\$150	\$1
RF-20963	Repair or optimize refrigeration pump VFD — retrocommissioning	\$0.08	\$150	\$1
RF-53890	Optimize refrigeration control loop tuning — retrocommissioning	\$0.08	\$150	\$1
RF-65403	Repair or optimize refrigeration defrost control — retrocommissioning	\$0.08	\$150	\$1
RF-68733	Optimize refrigeration temperature setpoints — retrocommissioning	\$0.08	\$150	\$1
RF-70693	Repair or optimize refrigeration floating head pressure controls — retrocommissioning	\$0.08	\$150	\$1
RF-89043	Repair or optimize refrigeration evaporator fan controls — retrocommissioning	\$0.08	\$150	\$1

#### REFRIGERATION SENSOR

**Customized Solution** *Items eligible for Customized Solution incentives are shown below.*

SOLUTION CODE	SOLUTION DESCRIPTION FOR REFRIGERATION SENSOR	INCENTIVES		
		Energy \$/kWh	Demand \$/kW <sup>1</sup>	Gas \$/therm <sup>2</sup>
RF-58475	Repair or optimize refrigeration pressure sensor — retrocommissioning	\$0.08	\$150	\$1
RF-72638	Calibrate refrigeration sensor — retrocommissioning	\$0.08	\$150	\$1
RF-78593	Repair or optimize refrigeration temperature sensor — retrocommissioning	\$0.08	\$150	\$1
RF-80492	Repair or optimize refrigeration flow sensor — retrocommissioning	\$0.08	\$150	\$1

For complete terms and conditions, go to [sce.com/solutions](http://sce.com/solutions). Please refer to the “What’s New” section of the Online Application ([sceonlineapp.com](http://sceonlineapp.com)) for additions, deletions and other changes to solutions and eligibility requirements since the publication date of this document (print or online).

1. kW incentive applies. Refer to the Appendix: Eligibility requirements for incentive qualifications and detailed calculations.

2. Incentives for natural gas savings (therms) are available for eligible SoCalGas customers only.

## REFRIGERATION SYSTEMS

**Customized Solution** *Items eligible for Customized Solution incentives are shown below.*

SOLUTION CODE	SOLUTION DESCRIPTION FOR REFRIGERATION SYSTEMS	INCENTIVES		
		Energy \$/kWh	Demand \$/kW <sup>1</sup>	Gas \$/therm <sup>2</sup>
RF-43967	Reduce refrigeration valve leakage — retrocommissioning	\$0.08	\$150	\$1
RF-58724	Refrigeration liquid receiver capacity optimization — retrocommissioning	\$0.08	\$150	\$1

## WHOLE BUILDING

### TRANSFORMER

**Customized Solution** *Items eligible for Customized Solution incentives are shown below.*

SOLUTION CODE	SOLUTION DESCRIPTION FOR TRANSFORMER	INCENTIVES		
		Energy \$/kWh	Demand \$/kW <sup>1</sup>	Gas \$/therm <sup>2</sup>
WB-98054	Right sizing transformers — retrocommissioning	\$0.08	\$150	\$1

For complete terms and conditions, go to [sce.com/solutions](http://sce.com/solutions). Please refer to the “What’s New” section of the Online Application ([sceonlineapp.com](http://sceonlineapp.com)) for additions, deletions and other changes to solutions and eligibility requirements since the publication date of this document (print or online).

1. kW incentive applies. Refer to the Appendix: Eligibility requirements for incentive qualifications and detailed calculations.

2. Incentives for natural gas savings (therms) are available for eligible SoCalGas customers only.

# Permanent Load Shifting (PLS)

## Incentives

Air conditioning costs can add up, especially in Southern California's summer climate. For many businesses, this creates a major operational expense. If your business' cooling load is considerable, you may qualify for incentives that can help you shift some of your on-peak energy use to off-peak hour, by installing a Thermal Energy Storage system. By shifting more of your energy use to off-peak hours, you not only run your business more efficiently, you stand to see savings on your bill.

---

### THERMAL ENERGY STORAGE

Thermal Energy Storage (TES) is the process of redistributing energy use for cooling from on-peak hours when demand rates are highest to off-peak hours, when rates are lower. When you invest in a Thermal Energy Storage system for your business, you'll be able to produce your cooling energy in the evenings, and deploy it during high-demand afternoon hours, so you can operate during peak periods while minimizing your peak energy costs.

---

### INCENTIVES

SCE's PLS program provides financial incentives to qualifying participants for the installation and operation of Thermal Energy Storage (TES) systems. Qualified customers may receive reimbursements of up to \$875 per kilowatt of the designed and verified cooling load shift (not to exceed 50% of the actual, reasonable cost of the installed TES system). TES incentive payments are capped at \$1.5 million per Customer and at SCE's discretion.

Customers with high on-peak cooling loads are the best candidates for PLS. The most common thermal storage systems are water or ice. Qualifying equipment includes, but is not limited to:

- Chilled water or other fluid
- Ice-on-coil (external melt)
- Ice-on-coil (internal melt)
- Encapsulated ice or Phase Change Material
- Ice Harvester/Chiller
- Ice Slurry
- Integrated Direct Expansion Packaged Units with Ice-on-Coil.

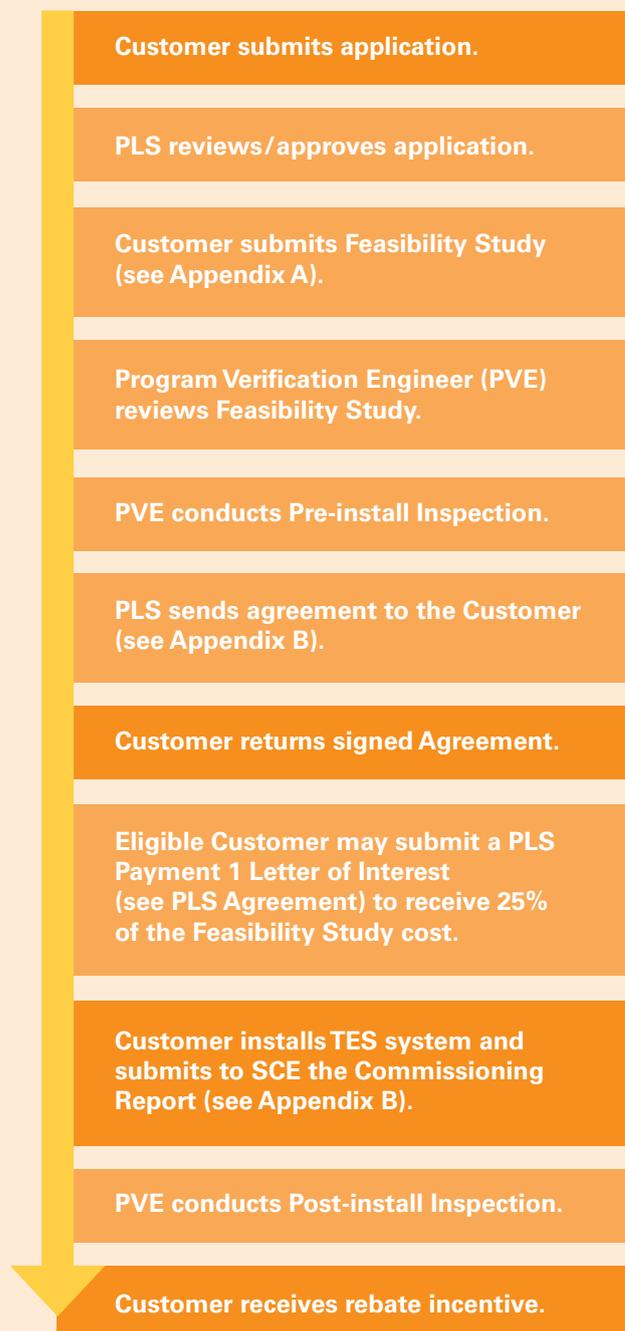
The cooling load shift calculation will be based on approved simulated software energy models used for the TES system design in the customer's Feasibility Study and the verified cooling load shift during the post-installation inspection.

**FOR MORE INFORMATION, VISIT  
OUR WEBSITE AT [SCE.COM/PLS](http://SCE.COM/PLS),  
EMAIL US AT [PLS@SCE.COM](mailto:PLS@SCE.COM),  
OR CALL 1-866-600-6289.**

### **INCENTIVE PROCESS**

Customers are eligible for incentive payments once they have met all of the program's requirements and have completed the high-level incentive process described to the right:

The PLS program does not provide incentives to customers that have received additional TES incentives from other utility funded programs. Incentives are also not available for fuel switching, adjustment of controls, refurbished equipment (with the exception of tanks), shifting achieved by best practices or commissioning, and maintenance or service fees.



# Demand Response

## Options

# Enroll

SCE offers numerous Demand Response (DR) programs to help you manage your energy consumption and reduce your business's energy costs. DR programs offer rate discounts, incentive payments, or bill credits for shifting or reducing your consumption when called upon by SCE.

Visit [sce.com/drp](http://sce.com/drp) for more detailed information.

### **DEMAND BIDDING PROGRAM (DBP)**

A voluntary non-penalty bidding program that offers incentives in the form of bill credits for reducing power when an event is called.

#### **Things to consider in order to participate in this program:**

- All business accounts with Edison SmartConnect® Meters and Real-Time Energy Meters may participate.
- You will be notified the day before the event and have the ability to place or modify your bid.
- You must be able to reduce your electrical demand for two or more consecutive hours between noon and 8 pm when an event is called. (Events may occur Monday–Friday, excluding holidays.)

---

### **SUMMER ADVANTAGE INCENTIVE (SAI), also known as CRITICAL PEAK PRICING (CPP)**

SAI is available to commercial and industrial customers and provides bill credits during the summer months. In exchange for the credit, SCE will call SAI events when electricity demand and/or prices climb. During these events your energy charges will rise significantly. However, if you can reduce or reschedule your usage to off-peak times on an event day, SAI may be a way to help lower your overall electric bill.

#### **Things to consider in order to participate in this program:**

- You should be able to reduce your electric load between the hours of 2 pm and 6 pm weekdays.
- You receive bill protection for the first 12 consecutive months on SAI — this ensures that the total amount you pay on SAI during your first year will not be more than the amount you would have paid on your base rate.
- You must be a bundled service customer (i.e., you must procure your electrical generation from SCE) to enroll in SAI.

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### **CAPACITY BIDDING PROGRAM (CBP)**

A flexible bidding program in which participants are paid a monthly incentive to reduce load by a predetermined amount during CBP events with either a day-ahead or day-of notification. Customers may also participate in this program through an authorized Demand Response Aggregator.

#### **Things to consider in order to participate in this program:**

- You will need to reduce electricity by an agreed-upon amount that can be changed on a month-to-month basis.
- Customers with multiple facilities like the flexibility that CBP offers to manage load reductions among their facilities.

**TO ENROLL, OR FOR MORE INFORMATION,  
CONTACT YOUR SCE MANAGER OR CALL THE  
DEMAND RESPONSE HELP LINE AT 1-866-334-7827.**

**AGGREGATOR  
MANAGED  
PROGRAMS (AMP)**

Authorized third-party Demand Response (DR) Aggregators contract with SCE to provide and manage their own specific DR programs to customers. When SCE calls an event, DR Aggregators are responsible for reducing electrical load, based on their contract with SCE. Customers may enter into individual agreements with third-party DR Aggregators and be compensated by the third-party aggregator based on the terms of their individual agreements. SCE has no involvement in the individual agreements reached between its customers and approved third-party DR Aggregators.

**Things to consider when participating in an AMP program:**

- You will be in a group of customers that participates in an AMP program managed by an SCE-approved DR Aggregator.
- Some customers prefer the flexibility a DR Aggregator may be able to offer.

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**REAL-TIME PRICING  
(RTP)**

Real-Time Pricing rates are electrical rates that vary based on the recorded temperature in downtown Los Angeles from the previous day. Customers on RTP will be billed for their energy usage with no time-related demand charges during the summer months.

**Things to consider in order to participate in this program:**

- You should be able to significantly reduce your electrical load during the specific hours of the day when the energy costs exceed your price level tolerance.
- You will need to acquire the daily maximum temperature from the National Weather Service for downtown Los Angeles.
- You must be a bundled service customer (i.e., you must procure your electrical generation from SCE) to enroll in this rate.

Some customers that operate 24/7 find RTP a good way to minimize their annual electric bill. All Commercial customers are eligible for RTP. Pumping and Agricultural Real-Time Pricing (PA-RTP) is also available for customers with 70% or more of their electrical usage being used for general agricultural purposes or for general water or sewage pumping.

# Demand Response

## Options

# Maximize

### TECHNOLOGY INCENTIVES

To assist you in achieving the full benefits of the DR program(s) you selected, SCE offers Automated Demand Response Technology Incentives (Auto-DR TI). These incentives may reimburse you for the purchase and installation of technologies that allow you to reduce load automatically.

SCE offers two types of DR Technology Incentives:

#### **AUTOMATED DEMAND RESPONSE EXPRESS TECHNOLOGY INCENTIVES (AUTO-DR EXPRESS)**

Incentives are available for standard technologies such as dimmable ballasts, temperature reset controls for HVAC, and duty-cycling of HVAC compressors and supply fans which can be used to automatically reduce load during demand response events. Customers selecting the Auto-DR Express option can qualify for up to 100% of eligible incentives (capped at \$300 per kW of predetermined load reduction) upon equipment verification and demonstration.

**To qualify for the Auto-DR Express program, you must enroll and participate in one of the following DR Programs for a minimum of 36 months:**

- Capacity Bidding Program
- Summer Advantage Incentive (also known as Critical Peak Pricing)
- Demand Bidding Program (for customers with peak demand of  $\geq 200\text{kW}$ )
- Demand Response Contract
- Real-Time Pricing

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#### **AUTOMATED DEMAND RESPONSE CUSTOMIZED TECHNOLOGY INCENTIVES (AUTO-DR CUSTOMIZED)**

An incentive program that provides reimbursement for the purchase and installation of technologies and equipment that facilitate sitewide automatic load reduction during demand response events. This equipment will be remotely activated (via Internet) upon receiving event or price signals from SCE. SCE reimburses up to \$300 per kW of tested load reduction.

**To qualify for the Auto-DR Customized program, you must enroll and participate in one of the following DR Programs for a minimum of 36 months:**

- Capacity Bidding Program
- Summer Advantage Incentive (also known as Critical Peak Pricing)
- Demand Bidding Program (for customers with peak demand of  $\geq 200\text{kW}$ )
- Demand Response Contract
- Real-Time Pricing

Customers with existing energy management systems or those proposing to install a new system are good candidates for Auto-DR.

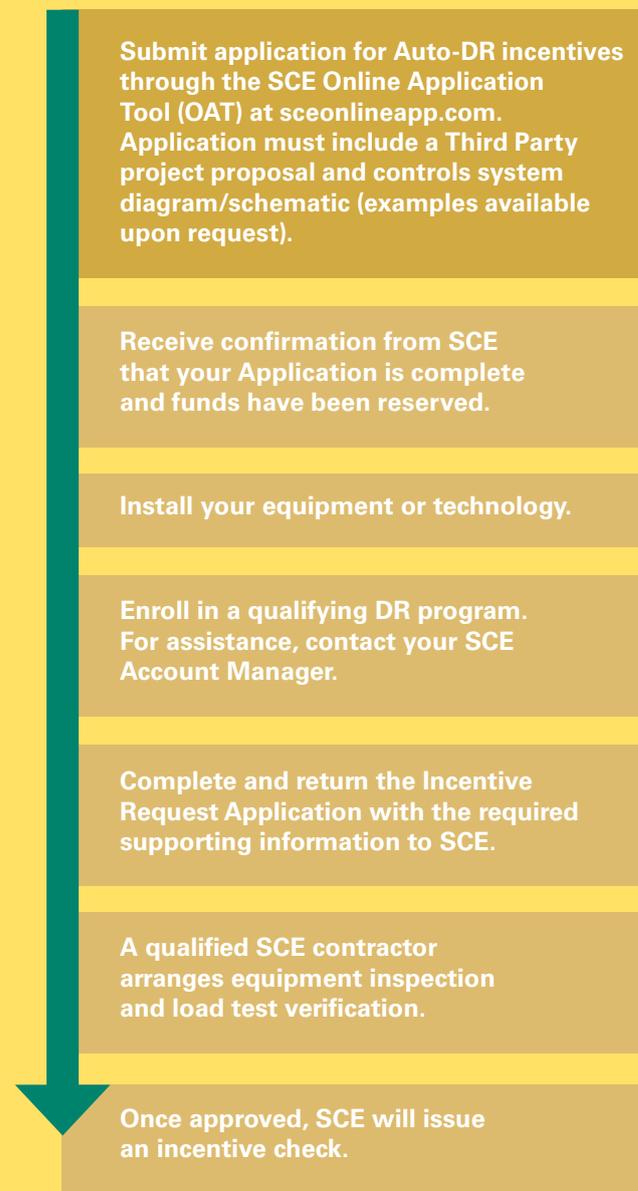
We encourage you to use the Online Application Tool available on [sce.com/solutions](http://sce.com/solutions) to complete and submit your application.

For more information, including a manual alternative to complete and submit your application, refer to page 108.

# Apply

To qualify for Auto-DR Technology Incentives you need to satisfy the eligibility requirements located in the Appendix on pages 105-106.

Use the diagram to the right to help guide you through the process.



# Demand Response

## Options

### **AUTOMATED DEMAND RESPONSE EXPRESS** TECHNOLOGY INCENTIVES AND STRATEGIES

Use the information in this section or the Auto-DR Express Solutions Tool at [sceonlineapp.com](http://sceonlineapp.com) to complete the required Solution Code, Solution Description, and Strategy fields in Section 7 of the Incentives Application.

#### **AUTOMATED DEMAND RESPONSE EXPRESS SOLUTION CODES**

SOLUTION CODE	SOLUTION DESCRIPTION	STRATEGY
DR-78293	Lighting Controls—20% Dimming	Defined in project proposal
DR-87293	Lighting Controls—30% Dimming	Defined in project proposal
DR-98044	Lighting Controls—40% Dimming	Defined in project proposal
DR-19018	HVAC Controls—4° F Space Temperature Reset	Defined in project proposal
DR-28016	HVAC Controls—5° F Space Temperature Reset	Defined in project proposal
DR-30795	HVAC Controls—6° F Space Temperature Reset	Defined in project proposal
DR-45832	HVAC Controls—10-Minute Duty Cycle (Compressor Only)	Defined in project proposal
DR-59933	HVAC Controls—15-Minute Duty Cycle (Compressor Only)	Defined in project proposal
DR-68563	HVAC Controls—20-Minute Duty Cycle (Compressor Only)	Defined in project proposal
DR-89723	HVAC Controls—10-Minute Duty Cycle (Compressor & Supply Fan)	Defined in project proposal
DR-18348	HVAC Controls—15-Minute Duty Cycle (Compressor & Supply Fan)	Defined in project proposal
DR-98064	HVAC Controls—20-Minute Duty Cycle (Compressor & Supply Fan)	Defined in project proposal

### **AUTOMATED DEMAND RESPONSE CUSTOMIZED** TECHNOLOGY INCENTIVES AND STRATEGIES

Use the information in this section or the Auto-DR Customized Solutions Tool at [sceonlineapp.com](http://sceonlineapp.com) to complete the required Solution Code, Solution Description, and Strategy fields in Section 8 of the Incentives Application.

#### **HEATING, VENTILATING AND AIR CONDITIONING**

SOLUTION CODE	SOLUTION DESCRIPTION	STRATEGY
DR-82993	HVAC System Optimization	Reconfigure or change sequence of chiller operation
DR-10031	HVAC System Optimization	Adjust outside air intake dampers
DR-55102	HVAC Pre-Cooling with Global Temperature Adjustment	Pre-cool the facility and raise space temperatures
DR-61103	HVAC Other	Defined in project proposal
DR-46718	VSDs for Fans	Defined in project proposal

*(continued on next page)*

## PROCESS

SOLUTION CODE	SOLUTION DESCRIPTION	STRATEGY
DR-50072	Process Optimization (curtailment or reset)	Curtail or reset industrial machinery or operations by specific equipment
DR-82214	Process Optimization (curtailment or reset)	Curtail or reset industrial machinery or operations by controls
DR-30001	Process Machinery — Other	Defined in project proposal
DR-89124	Refrigeration System Optimization	Defined in project proposal

## CONTROLS

SOLUTION CODE	SOLUTION DESCRIPTION	STRATEGY
DR-61990	EMS Installation	Defined in project proposal
DR-23445	EMS Enhancement	Defined in project proposal
DR-44991	Lighting Controls / Switching	Dim lights and/or shut off portion of the lighting
DR-39151	Controls for Package Units or Central Plants	Global temperature adjustment for air-cooled package units or central plants
DR-98812	Chiller Controls	Limit chiller electric demand
DR-31882	HVAC Controls	Cycle air-cooled package units and/or constant volume air handling units by controls
DR-79112	Controls for Pumps	Turn off fountains and swimming pool pumps
DR-19883	Controls for Battery Chargers	Delay use of battery chargers
DR-72615	Controls — Other	Defined in project proposal
DR-59114	SCADA Installation	Defined in project proposal
DR-29174	SCADA Enhancement	Defined in project proposal

## LIGHTING

SOLUTION CODE	SOLUTION DESCRIPTION	STRATEGY
DR-62019	Lighting — Other	Defined in project proposal
DR-48272*	Dimming Ballasts—20% Tuning + Auto Demand Response	Defined in project proposal
DR-49584*	Dimming Ballasts—20% Tuning + Daylight Harvesting + Auto Demand Response	Defined in project proposal
DR-60897*	Dimming Ballasts—20% Tuning + Occupancy Sensor + Auto Demand Response	Defined in project proposal
DR-89432*	Dimming Ballasts—20% Tuning + Occupancy Sensor + Daylight Harvesting with Side Lighting Photo Controls + Auto Demand Response	Defined in project proposal

\* To be eligible for incentives, these solutions must be used with their corresponding Energy Efficiency solutions found on page 24.

# Demand Response

## DR Programs Dual Enrollment Options for Business Customers

If you are already enrolled in one of SCE’s Demand Response (DR) programs, you are likely enjoying all the benefits of participation. Besides reducing energy usage, lowering your electricity costs and ultimately saving money, you are helping to make a difference in California’s energy and economic well-being by reducing electricity usage when it is needed most.

Enrolling in more than one DR program at a time may give you incentives beyond what a single program may provide. If you are enrolled in a DR program, the table below shows your compatible second DR program option (these are subject to eligibility requirements).

If You Are Enrolled in This Program Today	You May Add One of These Programs
Agricultural and Pumping Interruptible (AP-I)	• SAI • DBP • RTP • SLRP
Base Interruptible Program (BIP)	• SAI • DBP • RTP • SLRP
Capacity Bidding Program (CBP) with “Day-Of” Option	• SAI • RTP • SLRP • DBP • AMP
Capacity Bidding Program (CBP) with “Day-Ahead” Option	• RTP • AMP
Summer Advantage Incentive (SAI) also known as Critical Peak Pricing (CPP)	• AP-I • BIP • SDP • CBP with “Day-Of” Option • AMP with “Day-Of” Option
Demand Bidding Program (DBP)	• AP-I • BIP • SDP • CBP with “Day-Of” Option • AMP with “Day-Of” Option
Aggregator Managed Portfolio (AMP) formerly DRC “Day-Of” Option	• SAI • DBP • RTP • CBP
Aggregator Managed Portfolio (AMP) formerly DRC “Day-Ahead” Option	• RTP • CBP
Real-Time Pricing (RTP)	• BIP • SDP • CBP with “Day-Of” Option • AMP with “Day-Of” or “Day-Ahead” Option
Scheduled Load Reduction Program (SLRP)	• AP-I • BIP • CBP with “Day-Of” Option • SDP
Summer Discount Plan (SDP)	• SAI • DBP • RTP • SLRP

In addition to being able to sign up for two DR programs, you may also participate in Optional Binding Mandatory Curtailment (OBMC), a program which exempts customers from rotating outages in exchange for partial load reduction of their entire circuit during every rotating outage.

Please see next page for additional terms and conditions.

# DR Programs Dual Enrollment Options

## for Business Customers (continued)

### Special Terms and Conditions

Participation Combinations		Special Terms and Conditions that Apply
OBMC	Up to two eligible DR programs	OBMC customers participating in DR programs will not receive payment for energy reductions (kWh) during overlapping event hours.
BIP (Aggregation)		Customers enrolled in BIP through an Aggregator are not eligible to participate in any other DR programs.
SAI	AP-I, BIP, SDP, CBP ("Day-Of")	SAI customers dual participating with other DR programs will be capped at the maximum available on- and mid-peak demand charges applicable to their base rate.
DBP	AMP "Day-Of" Option	For DBP customers dual participating in a "Day-Of" Option from AMP, load reduction achieved during overlapping event hours will only count towards the AMP program and not towards DBP. (DBP event days are removed from the AMP baseline to the extent a bid was placed on the day to be excluded.) Load reduction during non-overlapping hours will be credited or applied as appropriate under each program.
DBP	CBP with "Day-Of" Option	For overlapping event hours, customers enrolled in both DBP and CBP ("Day-Of") will only earn credits towards CBP participation.
CBP	AMP	Simultaneous enrollment in CBP and a third-party Aggregator Managed Portfolio (AMP) program is allowed provided that customers with load reduction already nominated for CBP are not also nominated for a AMP program in the same month (and vice versa).

For the latest information about dual enrollment options, please refer to the **Demand Response Dual Enrollment Options** chart at [sce.com/drp](http://sce.com/drp).

# Appendix

## Incentive Eligibility Requirements

### ENERGY MANAGEMENT CUSTOMER ELIGIBILITY REQUIREMENTS

#### CUSTOMER ELIGIBILITY

Energy Management programs are available to the following customers with a valid and active SCE electric service account:

##### **Businesses**

Business customers include commercial, non-profit, industrial, and agricultural businesses, regardless of size, rate schedule, or monthly demand.

*Note:* Properties such as single-family homes, condominiums, apartments, and other residential dwellings are not eligible for the Express Solutions and Customized Solutions. However, common areas in multi-family properties (such as laundry rooms, recreation rooms, and offices) may be on a qualifying business rate schedule, in which case they are eligible.

##### **Self-generation**

Co-generation, wind, solar and other types of self-generation customers may be eligible for Express Solutions and Customized Solutions if they purchase electricity from SCE. The amount of the incentive depends upon the amount of the customer's total energy usage that is provided by SCE.

To ensure proper incentive processing, self-generation customers are encouraged to contact their SCE Account Manager or call 1-800-736-4777 for assistance.

### EXPRESS SOLUTIONS ELIGIBILITY REQUIREMENTS

#### PRODUCT ELIGIBILITY FOR EXPRESS SOLUTIONS EQUIPMENT INCENTIVES

Incentive requirements for qualifying project measure(s), referred to as solution(s), are included in the Energy Management Solutions Guides, and complete terms, conditions, and eligibility requirements can be found at [sce.com/express\\_solutions](http://sce.com/express_solutions).

Effective July 1, 2011, detailed product location information **must** be provided on the EMS Incentives Application for all Express Solutions projects. Projects submitted without the required detailed information will be considered incomplete and will follow the same process as all other incomplete applications received. The customer or the Customer's Authorized Agent is also required to provide details regarding new installed equipment for every site applied for (e.g., detailed location, Solution Code, quantity and product description).

In addition to meeting technical specifications, there may also be requirements based on the existing equipment being replaced.

## EXPRESS SOLUTIONS EQUIPMENT REQUIREMENTS

### All equipment must:

- **Be new** (not used or rebuilt, and not for resale) unless otherwise specified and used at the address for which savings are claimed.
- **Be installed at the site** which has a Southern California Edison account and pays into the PGC (Public Goods Charge) program.
- **Replace existing equipment** (not incremental purchases or new construction), unless specified by individual solution eligibility requirements.
- **New equipment must use less wattage than existing equipment**, if solution is a retrofit of existing equipment with new equipment.
- **Must be fully installed, operational, and properly commissioned** at time of application review.
- **May only qualify for incentive from one solution code**, unless otherwise specified by individual solution eligibility requirements.
- **Customers must submit existing and new equipment specifications**, when applicable.
- **Meet the requirements stated in the Program Terms and Conditions**

A complete list of qualifying solutions and equipment requirements is included at [sce.com/express\\_solutions](http://sce.com/express_solutions). In addition to meeting technical specifications, there may also be requirements based on the existing equipment being replaced. (See the section below for additional detail.) Please review the eligibility requirements for each incentive before purchasing your equipment. If you need assistance determining if the equipment you plan to purchase meets program requirements, contact SCE at 1-800-736-4777.

### Additional Provisions

- To be eligible for incentive, the installed equipment must be used for the effective useful life of the product(s) or for five years, whichever is less.
- If, for any reason, (e.g., one ceases to be a customer or adds self-generation capacity) you do not provide SCE with documentation of 100% of the related energy benefits for five years or the life of the product you shall refund a prorated amount of the incentive dollars to SCE that SCE, in its sole discretion, determines must be repaid.
- Customers may not receive multiple incentives for replacing the same equipment.

*Example:* A customer who receives an incentive for installing an interior induction fixture one year cannot receive another incentive the following year to replace the same interior induction fixture.

# Appendix

## Incentive Eligibility Requirements

EXPRESS SOLUTIONS  
ELIGIBILITY REQUIREMENTS,  
CONTINUED

- Customers may not receive incentives for rebates paid by another state or local Public Goods Charge (PGC) program.

*Example:* A customer who receives an incentive for installing fluorescent lamps and fixtures cannot receive another incentive for the same lamps and fixtures from PG&E.

- If Customer's Authorized Agent is receiving the incentive, the invoice must show that the incentive was deducted from the total.

### EXPRESS SOLUTIONS EQUIPMENT INCENTIVE LIMITS

Refer to the Energy Management Solutions Incentives Application or [sce.com/express\\_solutions](http://sce.com/express_solutions) for details.

### EXPRESS SOLUTIONS EQUIPMENT INCENTIVE INSTALLATION COSTS

The maximum incentive per solution is 100% of the total solution cost, as listed on the proof of payment. Incentives are not paid above the costs listed on the proof of payment.

**Installed costs:** Installed cost includes material cost only. Labor costs may be eligible as part of the incentive cost when a vendor-installed project is involved.

**Sales taxes and freight (shipping):** Are not eligible for incentive, and should not be included in equipment costs.

## **EXPRESS SOLUTIONS EQUIPMENT INCENTIVE INSPECTIONS**

Depending on the application criteria, a project may require a Post-Installation Inspection. Post-Installation Inspections may be mandatory (based on certain project criteria) or random.

### **If your project requires an Inspection**

Inspectors will contact you (using the Project Site Information provided in Section 2 of the Incentives Application) to make inspection arrangements.

If the inspector determines that the equipment for the solution's applied-for incentive:

- Is not installed or is not operational: The application will be declined and a re-inspection fee may be assessed to the Customer or Customer's Authorized Agent if re-inspection is necessary.
- Is only partially installed: A partial incentive will be paid only for the qualifying equipment that is installed and operational. If the non-incentived equipment is later installed and made operational, a separate (new) application must be submitted for that equipment.

Inspectors require access to the equipment for verification purposes during normal business hours, 8 am–5 pm, Monday through Friday, excluding holidays.

Inspectors will make three attempts to contact the Customer to make inspection arrangements. If the inspector is unable to reach the Customer after three attempts, the application will be declined.

# Appendix

## Incentive Eligibility Requirements

### CUSTOMIZED SOLUTIONS ELIGIBILITY REQUIREMENTS

#### CUSTOMIZED INCENTIVE RATES

Incentives are calculated by:

- The amount of kWh saved in a 12-month period
- The amount of permanent peak kW reduced according to the DEER guidelines

The following rates apply to new applications received from January 1, 2013 to December 31, 2014:

#### CUSTOMIZED INCENTIVE RATES

CATEGORIES	ANNUAL ENERGY SAVINGS INCENTIVE RATE (kWh)	PERMANENT PEAK DEMAND REDUCTION INCENTIVE RATE (kW)
Non-Lighting TARGETED	\$0.15	\$150 / kW
All Other Non-Lighting	\$0.08	\$150 / kW
Lighting TARGETED	\$0.08	\$150 / kW
All Other Lighting	\$0.03	\$150 / kW

Requirements for qualifying project measure(s), referred to as solution(s), can be found in the 2013-2014 Statewide Customized Retrofit Offering Procedures Manual for Business.

Incentives are paid only on the energy savings and demand reduction above and beyond baseline energy performance, which include state-mandated codes, federal-mandated codes, industry-accepted performance standards, or other baseline energy performance standards as determined by SCE.

All energy savings estimates are subject to review and approval by SCE.

#### CUSTOMIZED SOLUTIONS PAYMENT SCHEDULE

For most projects, 100% of the approved incentive amount is paid after the Installation Report is approved.

In a few cases where there is uncertainty of energy savings, SCE may require measurement and verification (M&V), up to two years after implementation of the project. If SCE determines that M&V is necessary, the customer or Customer's Authorized Agent must prepare and submit an M&V plan upon SCE's request for review and approval. For projects where M&V is required, 60% of the approved incentive is paid after the project installation is confirmed.

The incentive payment will be increased by 10% (up to \$50,000) to help defray the M&V costs. The balance of the incentive amount for the solution installed is paid upon approval of the final M&V report (Operating Report).

## CUSTOMIZED SOLUTIONS INCENTIVES PAYMENT LIMITS

Incentives are not to exceed 50% of the total project cost or 100% of the incremental project cost. Additionally incentives cannot be paid on energy savings which exceed the energy purchased from SCE during the prior 12 months. Non-SCE supply, such as cogeneration or deliveries from another commodity supplier, does not qualify as usage from SCE (with the exception of Direct Access customers or customers paying departing load fees for which SCE collects PPP surcharges).

Refer to the Energy Management Solutions Incentives Application or [sce.com/customized\\_solutions](http://sce.com/customized_solutions) for more details.

## CUSTOMIZED SOLUTIONS INSPECTIONS

### Pre-Installation Inspection:

The pre-installation inspection will be conducted to ascertain that:

- The application accurately reflects the proposed project.
- All existing equipment listed in the application is still operational (if not, the associated efficiency incentives may be deemed ineligible).
- Installation has not yet occurred (if field preparations for installation have begun, the project could become ineligible).

Additionally, spot measurements will be taken, if applicable.

If the project fails the inspection twice, the application may be declined. If SCE allows a third inspection, the applicant must pay the cost incurred by SCE for conducting an additional inspection.

### Post-Installation Inspection:

Once the project has been completely installed and operational, the applicant or Customer's Authorized Agent submits an Installation Report (second submittal) to SCE. This form confirms the estimated energy savings, or notes any changes to the project that were made during installation and recalculates the anticipated energy savings and demand reduction values as necessary. The Applicant also attaches any required data and analysis from spot measurement that may have been performed before or after installation.

**The Installation Report must be submitted for a post-installation inspection to be scheduled.** The final approval is the basis for initiating the incentive payment. The Applicant is to submit the Installation Report within 30 days of the project's complete installation.

Upon receipt of the Installation Report, the inspector will schedule a post-installation inspection at the customer project site as soon as possible. The inspector will verify that the new equipment (project) is completely installed and operational, and may conduct spot measurements, if applicable. The inspector will typically complete the review, inspection, and any savings adjustments within 30 days for non-M&V projects and 45 business days for M&V projects. Complex and multiple-site projects may take longer.

If the inspection fails two times, the application may be declined and the applicant must pay the cost incurred by SCE for conducting any further inspections.

# Appendix

## Incentive Eligibility Requirements

CUSTOMIZED SOLUTIONS  
ELIGIBILITY REQUIREMENTS,  
CONTINUED

### Notice of Review Results

SCE will provide the Applicant with written notice of the results of the inspection and review, typically within 30 days of receipt of the completed Installation Report. If approved, the notice includes the approved incentive amount based on SCE's review of the Installation Report and indicates that the incentive is being processed.

If the Installation Report is not approved, the Applicant has 30 days to resubmit a revised Installation Report providing SCE with the requested information. Even after installation, a project may be denied incentive funds if:

- The installation is not consistent with the Customized Solution agreement; *or*
- The customer or Customer's Authorized Agent causes unreasonable delays in scheduling an inspection; *or*
- SCE must ask for clarifying information more than three times.

If an Installation Report is not approved, SCE may terminate the Customized Program Agreement and release the incentive funding reserved for the project.

### Additional Provisions

- To be eligible for incentive, the installed equipment must be used for the effective useful life of the product(s) or for a period of five years, whichever is less.
- If, for any reason, (e.g., one ceases to be a customer or adds self-generation capacity) you do not provide SCE with documentation of 100% of the related energy benefits for five years or the effective useful life of the product you shall refund a prorated amount of the incentive dollars to SCE that SCE, in its sole discretion, determines must be repaid.
- Customers may not receive multiple incentives for replacing the same equipment.

*Example:* A customer who receives an incentive for installing an interior induction fixture one year cannot receive another incentive the following year to replace the same interior induction fixture.

- Customers may not receive incentives or rebates paid by another state or local Public Goods Charge (PGC) program.

*Example:* A customer who receives an incentive for installing fluorescent lamps and fixtures cannot receive another incentive for the same lamps and fixtures from PG&E.

## **AUTO-DR TECHNOLOGY INCENTIVES (AUTO-DR TI)**

### **ELIGIBILITY**

The Auto-DR Technology Incentives program is open to all SCE business customers in SCE's service territory with an installed interval or Edison SmartConnect® meter at each service account site. Customers must meet the registered demand levels, or aggregated load levels, outlined by the program(s) in which they are enrolled or will enroll in. For more information about SCE's DR programs, please visit [sce.com/drp](http://sce.com/drp).

### **AUTOMATED DEMAND RESPONSE EXPRESS TECHNOLOGY INCENTIVES (AUTO-DR EXPRESS)**

SCE offers incentives for the purchase and installation of standard technologies such as dimmable ballasts, temperature reset controls for HVAC, and duty-cycling of HVAC compressors and supply fans which can be used to automatically reduce load during demand response events. Offices and retail stores with 100 kW–400 kW of maximum demand or food stores with 100 kW–250 kW of maximum demand can qualify for Auto-DR Express. Customers selecting the Auto-DR Express option can qualify for up to 100% of eligible incentives (capped at \$300 per kW of predetermined load reduction) upon equipment verification and demonstration. Multiple incentives cannot be paid for the same technology. Your facility's maximum kW (demand) will be based on the most recent 12 months of usage.

### **AUTOMATED DEMAND RESPONSE CUSTOMIZED TECHNOLOGY INCENTIVES (AUTO-DR CUSTOMIZED)**

Customers can receive incentives up to \$300 per kW of verified load reduction for the purchase and installation of technologies that automatically reduce electricity use during demand response events without the need for manual intervention. Manual or semi-automated controls are not eligible for incentives. This includes improvements to existing equipment, behavioral changes, maintenance service fees, and metering equipment.

To be eligible for Auto-DR Technology Incentives, your facility (i) must be receiving bundled or direct access electric service from SCE, (ii) must have an interval or Edison SmartConnect® meter, (iii) must be billed on an SCE commercial, industrial, or agricultural electric rate schedule, and (iv) must have purchased and installed a qualifying demand response solution. To qualify for technology incentives, you must enroll and/or remain enrolled in a qualifying demand response program for 36 consecutive months (upon receipt of technology incentives).

# Appendix

## Incentive Eligibility Requirements

### **AUTO-DR TECHNOLOGY INCENTIVES**

CONTINUED

#### **VERIFICATION OF LOAD REDUCTION**

To qualify for DR Technology Incentive funding, a verification/demonstration of the load shed capability and functionality of the equipment must be performed. This verification is performed by an independent third party, Program Verification Engineer (PVE), not affiliated with the assigned engineer or the controls contractor. The demonstration is simple and consists of three steps:

1. Identify demand response enabling equipment/device for which you are requesting TI funds
2. Demonstrate enabling demand response by activating this equipment and holding the targeted load shed for two hours
3. Return to normal facility operations

The measurement and verification (“M&V”) of the approved kW reduction for Auto-DR Customized projects will be performed by the PVE using interval meter data for your facility and comparing this with an established baseline. In determining incentive payments, SCE retains sole discretion to determine the appropriate baseline values and load which can be dispatched for reduction to determine incentive payments. If you are also considering implementing an Energy Efficiency (EE) or Distributed Generation (DG) project (such as solar or cogeneration), it is important to understand that measures like these may reduce your peak energy usage baseline. The peak energy usage baseline is used in the calculation of your incentives under the Auto-DR TI program.

#### **PROOF OF PURCHASE AND INSTALLATION**

With any Auto-DR TI application you will be required to provide proof of purchase and installation (including, if applicable, proof of payment of third-party installation), of the qualifying demand response solution by attaching receipts, cancelled checks, credit card statements and other documentary proof to the application. If applicable, for proof of payment of third-party installation, SCE requires an itemized invoice from the third-party installation contractor that clearly breaks down each item of labor and material (if any) that was invoiced by the third-party contractor for the installation of the qualifying demand response solution, and proof of payment of the invoiced costs.

The Auto-DR TI program will reimburse reasonable in-house labor costs and related expenses associated with the installation of the qualifying solution(s). Reimbursable in-house costs shall be limited to labor and other expenses directly incurred for design, engineering, and installation activities, and shall not include indirect labor or overhead costs. SCE reserves the right to consult with one or more qualified third parties of its own choosing to determine the reasonableness of your in-house labor-related expenses.

*Note:* To be eligible for an incentive, a customer must own the qualifying demand response solution outright. Cloud-based controls, leased equipment, metering equipment, service contracts, and any recurring costs do not qualify under the Auto-DR TI program.

SCE may request proof of progress towards completing a project for which a reservation was approved at any time during the reservation period. Failure to demonstrate adequate performance towards completion of a project for which a reservation was approved may result in forfeiture of the reservation. SCE also reserves the right to modify or reject any reservation request that, in SCE’s sole judgment, violates the requirements of the Auto-DR TI program. While a reservation reserves funds for a project, payment of incentive is not guaranteed and is subject to post-installation performance verification.

# Building Type Codes

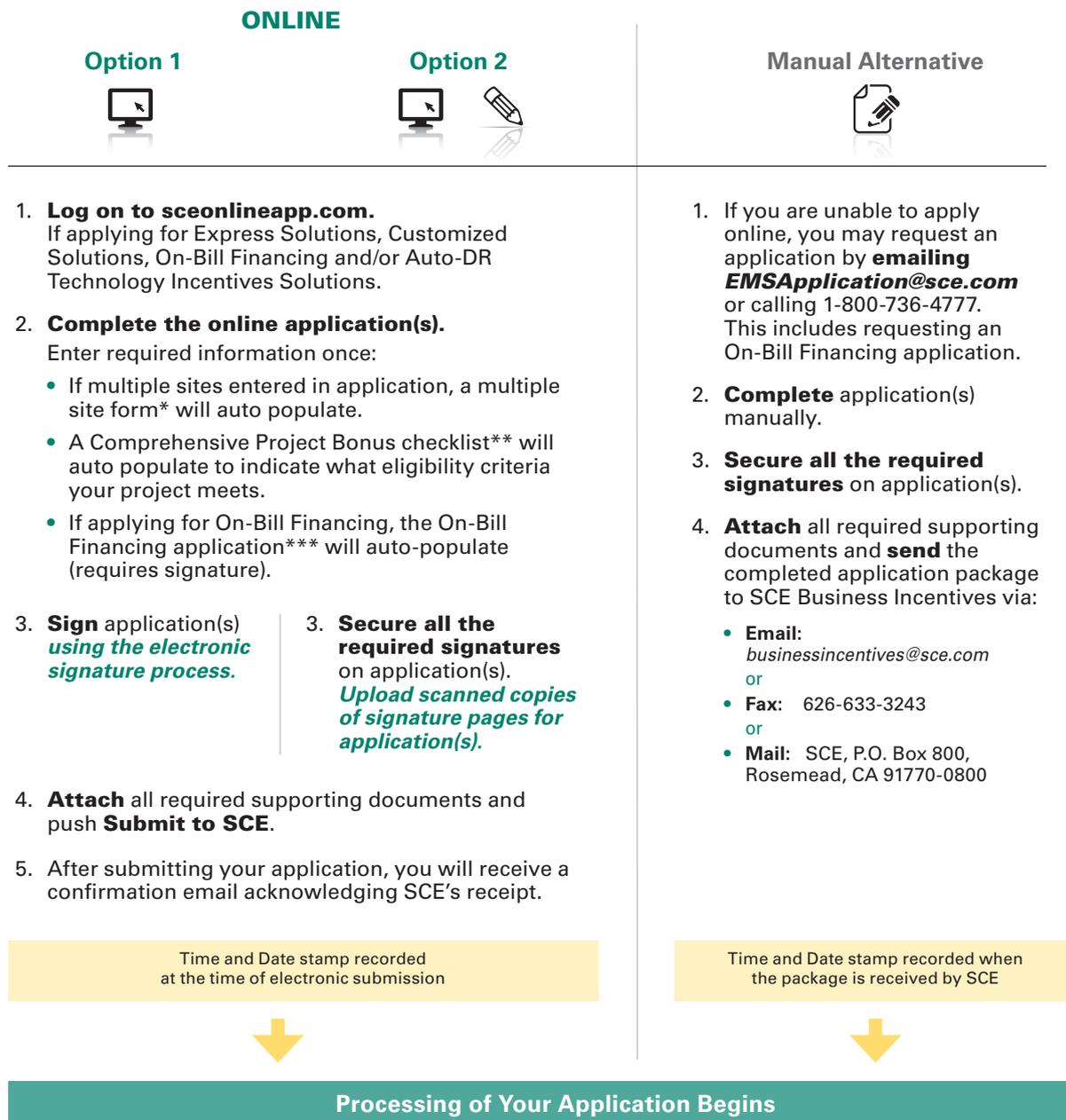
Buildings are classified according to their principal activity, which is the primary business, commerce, or function carried out within each building. Buildings used for more than one of the activities described below are assigned to the activity occupying the most floor space, with the subcategories combined into more general building activities.<sup>1</sup>

**Use these codes to describe the Building Type when filling out Project Site Information (section 2) of the Incentives Application.**

BUILDING CODE	FINAL BUILDING TYPES	EXAMPLE
1	Agricultural	Agricultural facilities and buildings
2	Assembly	Church, gym or other meeting space typically used during normal working hours
3	Education — Primary School	Elementary schools and religious education facilities
4	Education — Secondary School	Middle schools, junior high and high schools
5	Education — Classroom	Modular classrooms
6	Education — Community College	Community colleges, career or vocational training, adult education buildings used for classroom instruction
7	Education — University	College and university buildings used for classroom instruction
8	Grocery	Grocery store or food market
9	Food Store	Convenience store (including those at gas stations), liquor store
10	Health/Medical — Hospital	Hospital or inpatient rehabilitation, usually several hundred thousand square feet
11	Health/Medical — Nursing Home	Assisted living, nursing home, retirement home or inpatient rehabilitation, usually under 100,000 square feet
12	Health/Medical — Clinic	Medical office, clinic, outpatient health care, outpatient rehabilitation, veterinarian
13	Lodging — Hotel	Lodging facilities, usually several hundred thousand square feet, common activity areas
14	Lodging — Guest Rooms	Lodging facilities guest rooms, non-common activity areas
15	Lodging — Motel	Lodging facilities, usually under 100,000 square feet, common activity areas
16	Manufacturing — Bio/Tech	Research and manufacturing facilities with clean rooms for pharmaceutical, medical or communications
17	Manufacturing — Light Industrial	Appliance, assembly, machine shops, parts, textile manufacturing facilities
18	Industrial	Petroleum, cement and metal manufacturing, or wastewater facilities
19	Miscellaneous Commercial	Beauty parlor, crematorium, gas station, kennel, laundromat, post office, police station
20	Office — Large	Government office, bank, city hall, social service, collectively over 100,000 square feet
21	Office — Small	Daycare or preschool, church, contractor or sales office, collectively under 100,000 square feet
25	Restaurant — Fast Food	Fast food restaurant, cafeteria
26	Restaurant — Sit Down	Sit-down restaurant
27	Retail — Multistory Large	Department stores
28	Retail — Single-story Large	Big box retail stores, dealerships or showrooms, rental centers
29	Retail — Small	Stores located in strip malls, studio, gallery
30	Storage — Conditioned	Large refrigerated warehouses, typically 500,000 square feet or larger
31	Storage — Unconditioned	Non-refrigerated or unconditioned warehouses, distribution or shipping center
32	Transportation/Communication/Utilities	Telephone switching, data center or server farm, street lighting, traffic signal lighting
33	Refrigerated Warehouse	Smaller refrigerated warehouses, typically between 100,000 and 500,000 square feet

1. [http://eia.doe.gov/emeu/cbecs/building\\_types.html](http://eia.doe.gov/emeu/cbecs/building_types.html)

# How to Submit Your EMS Incentives Application



\* If manually submitting an EMS Incentives Application and an On-Bill Financing Application for multiple site projects, you will need to complete the Multiple Site/Solution Worksheet (Excel) and manually complete the calculations for each site. For the eligible solutions at each site, include estimated incentives, estimated eligible project costs and estimated kW and kWh savings required to complete and submit the On-Bill Financing Applications.

\*\* If manually submitting an EMS Incentives Application, you will also need to complete and submit a Comprehensive Project Bonus checklist.

\*\*\* If manually submitting an On-Bill Financing Application for a multiple site project, you will need to complete a separate On-Bill Financing Application for each project site listed on the EMS Incentives Application.

# Application Check List

## REQUIRED DOCUMENTATION TO BE SUBMITTED WITH YOUR APPLICATION

1. **Payees** (Section 9, Part B of this application) must submit a completed W-9 and CA-590. If Payee is an SCE Partnership partner, only submit a completed W-9.
2. **Customer's Authorized Agents** (Section 1, Part B of this application) must have a completed Customer's Authorized Agent Agreement (learn more at [caasupport.com/about](http://caasupport.com/about)) on file. The Agreement does not need to be submitted with each application.
3. **For all Projects/Solutions** (Express, Customized, and Auto-DR Technology Incentives), you must submit:
  - **Tax ID Information** — For the party receiving incentives ("Payee").
  - **Proof of Payment** — Submit either an Invoice/Store Receipt, a Purchase Order, or a Lease Agreement. See below for what each must include.
  - **Spec Sheets** — For each solution.

### Invoice/Store Receipt must include:

- Date of Purchase
- Full description of new equipment.
- A line item that subtracts SCE's incentives amount from the Total Project Costs, when the Payee is the Customer's Authorized Agent
- Payment status (paid or payment terms)

### Purchase Order must include:

- Date of order or delivery
- Payment terms
- Customer's (Section 1A, Part A) signature

### Lease Agreement must include:

- Lease start date and length
- Payment terms
- Customer's (Section 1A, Part A) signature

4. **For all Express and Customized Solutions Projects**, you must submit a Comprehensive Project Bonus checklist. If submitting your application online, this checklist auto populates.
5. **For Customized Projects**, you must also provide the following for **each** solution:
  - **Calculations in the original, editable file format** — Do **not** include hand written calculations.  
Note: Calculations are automatically attached when using the Online Application's Solutions Calculation Wizard. For a list of preferred tools for calculations, go to [sce.com/customized\\_solutions](http://sce.com/customized_solutions).
  - Proposed savings and costs calculations (and their respective documentation), based on installation type (as seen below).
  - Proof of early retirement, if applicable.

### Retrofit Early Retirement Installation Type

#### Proposed Incremental Energy Savings

- **Calculation** = Code or Industry Standard Practice (ISP) Baseline Energy Usage **MINUS** Proposed Solution Energy Usage

#### Proposed Incremental Cost (including parts & labor)

- **Calculation** = Full cost of solution **MINUS** Cost of code or ISP equipment

### Replace on Burnout/End Life Installation Type

#### Proposed Incremental Energy Savings

- **Calculation** = Code or ISP Baseline Energy Usage **MINUS** Proposed Solution Energy Usage

#### Proposed Incremental Cost (including parts & labor)

- **Calculation** = Full cost of solution **MINUS** Cost of code or ISP equipment

6. **For Auto-DR Express or Customized Technology Incentives Solutions**, you must also provide:
  - A third-party project proposal or scope of work showing total estimated project cost and load reduction through Auto-DR. Project proposals must include detailed calculations for DR load (kW) reductions and detailed costs for labor, installation, and equipment.
  - A controls system schematic or diagram.
7. **Additional attachments required for some solutions** (e.g., air compressors for process and pumping, lighting, PC software, etc.). Review the eligibility requirements carefully.

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