

Second Edition, June 2010

# Empower

Savings  
Growth  
Community



**SMALL BUSINESS** Energy Management Solutions Reference Guide



**Table of Contents**

<b>Energy Efficiency Incentives</b>	<b>03</b>
Lighting	04
Food Service	13
Refrigeration	14
Building Envelope	21
Water Heating	22
Heating, Ventilating, Air Conditioning (HVAC)	23
Office Equipment	25
<b>Appendix</b>	<b>27</b>
Incentive Eligibility Requirements	27
Building Type Codes	31

# Apply

**Take action now to get your fair share of incentives.**

To apply for Express Solutions incentives, follow these step-by-step instructions—use this section to help you complete the Solution Codes, Solution Descriptions, and Incentive Amounts fields in the Incentives Application.

This guide is subject to change. For the most up-to-date information please go to [www.sce.com/solutions](http://www.sce.com/solutions).





## FIND THE ENERGY MANAGEMENT SOLUTIONS INCENTIVES APPLICATION ONLINE AT [WWW.SCE.COM/SOLUTIONS](http://WWW.SCE.COM/SOLUTIONS).

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

Mail completed paper applications to:  
Southern California Edison, Business Incentives  
P.O. Box 800, Rosemead, CA 91770-0800  
Questions? Call (800) 736-4777

### HOW TO RECEIVE INCENTIVES

If you have NOT installed the energy-saving equipment already:

Identify the equipment solution you want to install.

Locate the equipment solution on the following pages, follow the simple instructions to complete sections 1–4 and 8–9 of the Incentives Application, then sign and submit the application to SCE.

SCE will send you an Installation Report Form.

When your project is installed, complete and return the Installation Report Form with required supporting documents to SCE (itemized invoice, manufacturer's product specification sheet).

Once your application is approved, an incentive check will be issued.

If you have already installed the energy-saving equipment:

Locate the equipment solution you installed on the following pages, follow the simple instructions to complete sections 1–4 and 8–9 of the Incentives Application, and sign the application.

Submit the application with supporting documents (itemized invoice and manufacturer's product specification sheet) to SCE.

Once your application is approved, an incentive check will be issued.

**IF YOU NEED ASSISTANCE FINDING A CONTRACTOR TO INSTALL YOUR ENERGY MANAGEMENT PROJECT, VISIT OUR CONTRACTOR REFERRAL TOOL AT: [WWW.SCE.COM/CONTRACTOR](http://WWW.SCE.COM/CONTRACTOR).<sup>1</sup>**

1. SCE does not endorse any contractor supplier or vendor listed. SCE encourages customers to obtain more than one bid or quote when seeking energy efficiency services. SCE does not endorse or guarantee the services, work, or financial stability of the vendors listed. Vendors are listed because the vendor elected to provide their name and contact information, not because they are recommended or endorsed by SCE. Any agreement between a customer and a vendor is exclusive of SCE and SCE is not a party or guarantor of that agreement. **Please note:** A mandatory post-installation inspection is required if your incentive is \$7,000 or more. If your incentive is under \$7,000, you may be chosen at random for post-installation inspection. Do you have a bigger or more complex project in mind? Or did your equipment not qualify? Consider a Customized Solution. Contact an SCE Account Representative or a contractor, or call Customer Service at: (800) 736-4777.

# Energy Efficiency Incentives

A COMPLETE LIST OF QUALIFYING INCENTIVES CAN BE FOUND AT [WWW.SCE.COM/SOLUTIONS](http://WWW.SCE.COM/SOLUTIONS), OR, FOR MORE INFORMATION, CALL (800) 736-4777.

## 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.
- All new fixtures and ballasts must be warranted against mechanical and electrical defects for at least five years.
- 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.

#### Express Solution

YES NO

The answer should be "Yes" to every applicable question in a solution category for a project to qualify for that incentive. If you don't know the answer to the question, please contact your SCE Account Representative. If you don't know who your SCE Account Representative is, please call (800) 736-4777.

#### T8 TO T8 LAMP REPLACEMENT

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

<input type="radio"/>	<input type="radio"/>
<input type="radio"/>	<input type="radio"/>
<input type="radio"/>	<input type="radio"/>
<input type="radio"/>	<input type="radio"/>

Are the new T8 lamps CEE-approved? Approved lamps can be found at [www.cee1.org/com/com-lt/RW-lamps-ballasts.xls](http://www.cee1.org/com/com-lt/RW-lamps-ballasts.xls) on tab RW Lamp Update.

Are existing 4-foot 32-watt T8 fluorescent lamps being replaced with 4-foot 28-watt or 25-watt T8 fluorescent lamps? This incentive applies to lamp-only retrofits.

Do the T8 replacement lamps have a CRI rating of 80 or greater?

Do the T8 replacement lamps have a lamp life rating of 18,000 hours for instant start ballasts and 24,000 hours for programmed start ballasts? All lamps must meet the minimums for rated lamp life at 3 hours/start.

*Note: This solution can be combined with the T8 interior lamp and electronic ballast solution. These lamps can also be used in existing 32-watt T8 re-lamping projects.*

#### T8 TO T8 REDUCED WATTAGE INTERIOR LAMP AND BALLAST RETROFIT

Lamp and ballast(s) retrofit to a newer generation 4-foot, 80+ CRI T8 lamp that uses 28 or 25 watts and high-efficiency ballast(s).

<input type="radio"/>	<input type="radio"/>
<input type="radio"/>	<input type="radio"/>
<input type="radio"/>	<input type="radio"/>
<input type="radio"/>	<input type="radio"/>

Are the new T8 lamps and ballasts CEE-approved? Approved lamps and ballasts can be found at [www.cee1.org/com/com-lt/RW-lamps-ballasts.xls](http://www.cee1.org/com/com-lt/RW-lamps-ballasts.xls).

Are existing 4-foot 32-watt T8 fluorescent lamps and ballast(s) being replaced with qualifying 4-foot 28-watt or 25-watt T8 fluorescent lamps and ballast(s)?

Do the T8 replacement lamps have a CRI rating of 80 or greater?

Do the T8 replacement lamps have a lamp life rating of 18,000 hours for instant start ballasts and 24,000 hours for programmed start ballasts? All lamps must meet the minimums for rated lamp life at 3 hours/start.

# Energy Efficiency Incentives

A COMPLETE LIST OF QUALIFYING INCENTIVES CAN BE FOUND AT [WWW.SCE.COM/SOLUTIONS](http://WWW.SCE.COM/SOLUTIONS), OR, FOR MORE INFORMATION, CALL (800) 736-4777.

## LINEAR FLUORESCENT, CONTINUED

YES

NO

### T8 OR T5 LINEAR FLUORESCENT LAMPS AND ELECTRONIC BALLASTS

**Lamp-only retrofit from a T12 to a T8 or T5 lamp with an electronic ballast.**

*Note: Effective April 1st, 2010, 4-ft T8 lamps and ballasts must be listed as High-Performance (HP) T8 lamps and HP ballasts, and be listed at [www.cee1.org/com/com-lt/com-lt-main.php3](http://www.cee1.org/com/com-lt/com-lt-main.php3).*



Are T12 lamps and magnetic ballasts being replaced 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 for 4-foot and 8-foot lamps have total harmonic distortion of less than or equal to 20%?



At full light output, do ballasts for 2-foot and 3-foot lamps have total harmonic distortion of less than or equal to 32%?



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 REQUIREMENTS

LAMP TYPE AND SIZE	BALLAST TYPE	CRI	MINIMUM RATED LAMP LIFE (3 HRS/START)
T8 – 2-foot, 3-foot, 4-foot	Programmed start / programmed rapid-start	≥ 80	24,000 hours
T8 – All sizes	Instant start	≥ 80	18,000 hours
T5 – All sizes	Programmed start or programmed rapid-start	≥ 82	20,000 hours

YES

NO

### DE-LAMPING

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



Are existing T12 lamps/ballasts and unused lamp holders (tombstones) permanently being removed from existing fixtures?



Are less than or equal to half of the existing lamps and ballasts (along with lamp holders) being removed from each fixture?



Is the total number of lamps being claimed for de-lamping less than the number of replacement T8 or T5 lamps being installed?



Will de-lamping maintain adequate light levels? Customer is responsible for deciding whether de-lamping will maintain adequate light levels.



Is de-lamping being claimed in conjunction with T8 or T5 replacements? De-lamping alone is not eligible. Also, removing lamps from a T12 fixture that is not being retrofitted with T8 lamps is not eligible for this incentive.

# Energy Efficiency Incentives

A COMPLETE LIST OF QUALIFYING INCENTIVES CAN BE FOUND AT [WWW.SCE.COM/SOLUTIONS](http://WWW.SCE.COM/SOLUTIONS), OR, FOR MORE INFORMATION, CALL (800) 736-4777.

## LINEAR FLUORESCENT, CONTINUED

YES

NO

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

Lamp-only retrofit to a newer generation 4-foot, 82+ CRI T5HO lamp that uses 49 or 51 watts.



Are existing 46" 54-watt T5HO fluorescent lamps being replaced with 46" 49-watt or 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.

### INTERIOR LINEAR FLUORESCENT FIXTURES

T8, T5, or T5/high output linear fluorescent fixtures replacing less efficient light source, such as T12 fluorescent or mercury vapor.



Are complete new T8 or T5 or high output (HO) T5 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 [www.cee1.org/com/com-lt/com-lt-main.php3](http://www.cee1.org/com/com-lt/com-lt-main.php3).



Are new fixtures replacing existing incandescent, mercury vapor, T12 fluorescent, standard metal halide, or high-pressure sodium fixtures in interior installations? Existing pulse start metal halide and 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? Fixtures are not eligible for additional incentives under the Compact Fluorescent fixtures and T8 or T5 Linear Fluorescent Lamps with Electronic Ballasts categories, but may qualify for an occupancy sensor incentive under the Occupancy Sensor category, provided all requirements are met.



Will fixtures be installed at a height over 12' above the finished floor to qualify for 400-watt and greater-than-400-watt categories?

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

A linear fluorescent hardwired fixture with electronic ballast and a passive infrared or ultrasonic sensor that will dim the fixture to 50% or less during unoccupied periods.



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?



Are the manufacturer-integrated sensors passive infrared and/or ultrasonic that controls the individual fixture and meets UL requirements? 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?

*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.*

# Energy Efficiency Incentives

A COMPLETE LIST OF QUALIFYING INCENTIVES CAN BE FOUND AT [WWW.SCE.COM/SOLUTIONS](http://WWW.SCE.COM/SOLUTIONS), OR, FOR MORE INFORMATION, CALL (800) 736-4777.

## LINEAR FLUORESCENT, CONTINUED

SOLUTION CODE	SOLUTION DESCRIPTION FOR LINEAR FLUORESCENT	INCENTIVE
		\$/unit of measure
	T8 to T8 reduced wattage interior lamp-only retrofit:	
LT-21844	32 watts to 28 watts	\$1.00 / lamp
LT-97103	32 watts to 25 watts	\$1.50 / lamp
	T8 to T8 reduced wattage interior lamp and ballast retrofit:	
LT-84012	28 watts	\$2.50 / lamp
LT-67100	25 watts	\$4.00 / lamp
	T8 interior lamp and electronic ballast:	
LT-46109	2-foot (T12 replacement only)	\$4.50 / lamp
LT-12877	3-foot (T12 replacement only)	\$5.50 / lamp
LT-82210	4-foot (T12 replacement only)*	\$5.50 / lamp
LT-89585	4-foot high-performance lamps and ballasts (T12 replacement only)**	\$5.50 / lamp
LT-58109	8-foot (T12 replacement only)	\$9.00 / lamp
	T5 interior lamp and electronic ballast:	
LT-61312	2-foot (T12 replacement only)	\$4.50 / lamp
LT-18642	3-foot (T12 replacement only)	\$5.50 / lamp
LT-94378	4-foot (T12 replacement only)	\$5.50 / lamp
LT-73491	8-foot (T12 replacement only)	\$9.00 / lamp
	T5 or T8 interior lamp:	
LT-34812	2-foot lamp removed (T12 replacement only)	\$6.00 / lamp
LT-48299	3-foot lamp removed (T12 replacement only)	\$6.00 / lamp
LT-77341	4-foot lamp removed (T12 replacement only)	\$8.00 / lamp
LT-27197	8-foot lamp removed (T12 replacement only)	\$20.00 / lamp
	T5H0 to T5H0 reduced wattage interior lamp-only retrofit:	
LT-30612	49 or 51 watts	\$2.00 / lamp
	Interior linear fluorescent fixtures:	
LT-41199	≤ 100-watt lamp existing, up to 64-watt replacement fixture	\$25.00 / fixture
LT-12866	101- to 175-watt lamp existing, up to 128-watt replacement fixture	\$35.00 / fixture
LT-84912	176- to 399-watt lamp existing, 192-watt replacement fixture	\$50.00 / fixture
LT-55943	400-watt lamp existing, 245- to 360-watt replacement fixture (Tier 2)	\$50.00 / fixture
LT-26100	400-watt lamp existing, up to 244-watt replacement fixture (Tier 1)	\$100.00 / fixture
LT-92448	> 400-watt lamp existing, up to 600-watt replacement fixture	\$200.00 / fixture
	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	\$25.00 / fixture
LT-38702	T12 linear fluorescent fixture existing, to dimming fluorescent fixture	\$25.00 / fixture
LT-10654	T12 linear fluorescent fixture existing, to on/off fluorescent fixture	\$25.00 / fixture

\* Expiring solution. Effective April 1, 2010, and through June 30, 2010, Express Solutions applications for standard 4-foot T8 interior lamp and electronic ballast solution incentives for T12 replacement only (solution code LT-82210) will only be accepted for qualified equipment purchased on or before March 31, 2010. On July 1, 2010, this solution will be discontinued and replaced with high-performance 4-foot T8 interior lamp and ballast solution for T12 replacement only (solution code LT-89585).

\*\* Added solution to replace an expiring solution. Effective April 1, 2010, Express Solutions will accept applications for high-performance (HP) 4-foot T8 interior lamp and ballast solution for T12 replacement only under solution code LT-89585. Qualified equipment for this solution can be found on the Consortium for Energy Efficiency (CEE) "Qualifying lamps, 120- and 277-volt ballasts" list. Qualified equipment must be purchased on or after January 1, 2010, to be eligible for incentives.

# Energy Efficiency Incentives

A COMPLETE LIST OF QUALIFYING INCENTIVES CAN BE FOUND AT [WWW.SCE.COM/SOLUTIONS](http://WWW.SCE.COM/SOLUTIONS), OR, FOR MORE INFORMATION, CALL (800) 736-4777.

## LED

A solid-state semiconductor device that converts electrical energy directly into light.

### Express Solution

YES NO

The answer should be “Yes” to every applicable question in a solution category for a project to qualify for that incentive. If you don’t know the answer to the question, please contact your SCE Account Representative. If you don’t know who your SCE Account Representative is, please call (800) 736-4777.

#### 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.

<input type="radio"/>	<input type="radio"/>
<input type="radio"/>	<input type="radio"/>
<input type="radio"/>	<input type="radio"/>

Are the LED fixtures installed in a refrigerated case? This solution applies to fixture-only retrofits.

Are the LED fixtures replacing 5-foot or 6-foot T12HO/T8 fluorescent fixtures?

Do the LED fixtures meet the minimum requirements listed below?

- Minimum luminaire efficacy (lm/w) – 35 lm/w
- Minimum lifetime – must be greater than 35,000 hours
- Manufacturer warranty – 5 years
- Power factor – greater than or equal to 0.90
- Total harmonic distortion – less than or equal to 20%
- Minimum light output – 850 lumens/door
- Zonal lumen density – 100% 0–90 deg
- Allowable CCT – less than 6,500 K
- Minimum CRI – 70 CRI
- Off-state power – 0 W

#### HIGH EFFICIENCY EXIT SIGNS

Exit signs using light emitting diodes (LEDs) as a light source in place of incandescent or fluorescent lamps.

<input type="radio"/>	<input type="radio"/>
<input type="radio"/>	<input type="radio"/>
<input type="radio"/>	<input type="radio"/>
<input type="radio"/>	<input type="radio"/>
<input type="radio"/>	<input type="radio"/>

Are new light emitting diode (LED), electroluminescent, or photoluminescent exit signs replacing incandescent or compact fluorescent lamps (CFL)? Retrofit kits are not eligible.

Do all new exit signs meet UL-924 requirements?

Will exit signs have a usage level less than or equal to 5 watts and a minimum product life of 10 years or be listed as ENERGY STAR®-qualified?

Can manufacturer’s information be provided stating the model number and ENERGY STAR® qualification? If not, other qualifying specification sheet must be submitted with each Incentives Application.

Do new exit signs meet local fire codes?

*Note: Qualifying specification sheet must be submitted with each Incentives Application.*

#### LED CHANNEL SIGNS

Channel signs that use light emitting diodes (LEDs) as a light source in place of traditional incandescent or neon-lighted channel letter signs.

<input type="radio"/>	<input type="radio"/>
<input type="radio"/>	<input type="radio"/>
<input type="radio"/>	<input type="radio"/>

Are incandescent-lighted or neon-lighted channel letter signs being replaced? Only retrofit kits or complete replacement signs using red LEDs are eligible.

Will the replacement sign use less than or equal to 20% of the actual input power of the sign that it is replacing?

Has the length of the sign been measured properly? Measure the length of the sign as follows:

1. Measure the length of each letter at the centerline
2. Do not measure the distance between letters
3. Add up the measurements of each individual letter to get the length of the entire sign being replaced
4. The calculation measurements must be submitted with the Application

# Energy Efficiency Incentives

A COMPLETE LIST OF QUALIFYING INCENTIVES CAN BE FOUND AT [WWW.SCE.COM/SOLUTIONS](http://WWW.SCE.COM/SOLUTIONS), OR, FOR MORE INFORMATION, CALL (800) 736-4777.

LED, CONTINUED

**YES**      **NO**      **ENERGY STAR® LIGHT EMITTING DIODE (LED) SURFACE, PENDANT, & RECESSED DOWNLIGHT**  
**ENERGY STAR® qualified LED downlight fixtures replacing incandescent or halogen lamps.**



Are new LED downlight modules or fixtures ENERGY STAR®-qualified? Visit [www.energystar.gov/index.cfm?fuseaction=ssl.display\\_products\\_com\\_html](http://www.energystar.gov/index.cfm?fuseaction=ssl.display_products_com_html) for a list of qualified products.



Are new LED downlights replacing, one for one, existing incandescent or halogen lamps greater than or equal to 40 watts?



Are new LED downlights 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.

SOLUTION CODE	SOLUTION DESCRIPTION FOR LED	INCENTIVE
		\$/unit of measure
LT-80693	LED refrigerated display case lighting retrofit	\$50.00 / door
	High-efficiency LED exit sign:	
LT-25510	Incandescent lamp existing	\$27.00 / fixture
LT-85327	Compact fluorescent lamp existing	\$15.00 / fixture
	LED channel signage (red):	
LT-74003	Indoor ≤ 2 ft	\$4.00 / ft
LT-10063	Outdoor ≤ 2 ft	\$2.00 / ft
LT-48213	Indoor > 2 ft	\$6.00 / ft
LT-67567	Outdoor > 2 ft	\$3.00 / ft
LT-68701	ENERGY STAR® LED surface, pendant, and recessed downlight: ≤ 15 watts	\$30.00 / fixture

# Energy Efficiency Incentives

A COMPLETE LIST OF QUALIFYING INCENTIVES CAN BE FOUND AT [WWW.SCE.COM/SOLUTIONS](http://WWW.SCE.COM/SOLUTIONS), OR, FOR MORE INFORMATION, CALL (800) 736-4777.

## COMPACT FLUORESCENT FIXTURES

Hardwired installation of a compact fluorescent fixture replacing less efficient lighting sources, such as incandescent, mercury vapor, T12 linear fluorescent, standard metal halide, or high-pressure sodium fixture.

### Express Solution

YES NO

The answer should be "Yes" to every applicable question in a solution category for a project to qualify for that incentive. If you don't know the answer to the question, please contact your SCE Account Representative. If you don't know who your SCE Account Representative is, please call (800) 736-4777.

#### COMPACT FLUORESCENT FIXTURES

- |                       |                       |  |
|-----------------------|-----------------------|--|
| <input type="radio"/> | <input type="radio"/> | Are complete new compact fluorescent fixtures being installed?   |
| <input type="radio"/> | <input type="radio"/> | 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?   |
| <input type="radio"/> | <input type="radio"/> | Are new fixtures equipped with compact fluorescent lamps (CFLs) and electronic ballasts?   |
| <input type="radio"/> | <input type="radio"/> | 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%?  |
| <input type="radio"/> | <input type="radio"/> | Are new fixtures replacing, one for one, existing incandescent, mercury vapor, T12 linear fluorescent, standard metal halide, or high-pressure sodium fixtures in interior installations? Existing pulse start metal halide installations do not qualify.  |
| <input type="radio"/> | <input type="radio"/> | If retrofitting an exterior fixture, is the existing lamp less than or equal to 100 watts?   |
| <input type="radio"/> | <input type="radio"/> | Will all replacement fixtures be hardwired?  |
| <input type="radio"/> | <input type="radio"/> | Will fixtures be installed at a height over 12' above the finished floor to qualify for the 400-watt categories?   |
| <input type="radio"/> | <input type="radio"/> | Is this the only Express Solution category under which the fixtures are receiving incentives? Fixtures are not eligible for additional incentives under the Linear Fluorescent Fixtures and T8 or T5 Linear Fluorescent Lamps with Electronic Ballasts categories, but may qualify for an occupancy sensor incentive under the Occupancy Sensor category, provided all requirements are met. |

#### SCREW-IN COMPACT FLUORESCENT REFLECTOR LAMPS

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

- |                       |                       |  |
|-----------------------|-----------------------|--|
| <input type="radio"/> | <input type="radio"/> | Are the screw-in compact fluorescent reflector lamps with integrated ballasts listed as ENERGY STAR®-qualified? Visit <a href="http://www.energystar.gov">www.energystar.gov</a> for a list of qualifying lamps. |
| <input type="radio"/> | <input type="radio"/> | Is the screw-in compact fluorescent reflector lamp wattage between 14 and 28 watts?  |
| <input type="radio"/> | <input type="radio"/> | If the retrofit involves screw-in induction reflector lamps, can it be demonstrated that the lamp performance is equivalent to ENERGY STAR®?   |

# Energy Efficiency Incentives

A COMPLETE LIST OF QUALIFYING INCENTIVES CAN BE FOUND AT [WWW.SCE.COM/SOLUTIONS](http://WWW.SCE.COM/SOLUTIONS), OR, FOR MORE INFORMATION, CALL (800) 736-4777.

## COMPACT FLUORESCENT FIXTURES, CONTINUED

SOLUTION CODE	SOLUTION DESCRIPTION FOR COMPACT FLUORESCENT FIXTURES	INCENTIVE
		\$/unit of measure
	Interior:	
LT-17083	≤ 100-watt lamp existing, up to 70-watt replacement fixture	\$20.00 / fixture
LT-83701	101- to 175-watt lamp existing, up to 128-watt replacement fixture	\$35.00 / fixture
LT-33489	176- to 399-watt lamp existing, up to 192-watt replacement fixture	\$40.00 / fixture
LT-26133	≥ 400-watt lamp existing, up to 244-watt replacement fixture (Tier 1)	\$75.00 / fixture
LT-84901	400-watt lamp existing, up to 360-watt replacement fixture (Tier 2)	\$45.00 / fixture
	Exterior:	
LT-10121	Exterior ≤ 100-watt lamp existing, up to 70-watt replacement fixture	\$17.00 / fixture
LT-55729	Screw-in compact fluorescent reflector lamps, 14–28 watts	\$7.00 / lamp

## COLD CATHODE

A cold cathode is an element used within some nixie tubes, gas discharge lamps, discharge tubes, and vacuum tubes. The term cold cathode refers to the fact that the cathode is not independently heated.

### Express Solution

YES NO

The answer should be “Yes” to every applicable question in a solution category for a project to qualify for that incentive. If you don’t know the answer to the question, please contact your SCE Account Representative. If you don’t know who your SCE Account Representative is, please call (800) 736-4777.

#### COLD CATHODE FLUORESCENT LAMPS: 2 TO 8 WATTS

A cold cathode lamp replacing an incandescent lamp using at least 10 watts.

- |                       |                       |   |
|-----------------------|-----------------------|---|
| <input type="radio"/> | <input type="radio"/> | Is the cold cathode lamp replacing an incandescent lamp of at least 10 watts? |
| <input type="radio"/> | <input type="radio"/> | Does the cold cathode lamp range from 2 watts to 8 watts?                     |
| <input type="radio"/> | <input type="radio"/> | Is the cold cathode lamp a medium (Edison) or candelabra base?                |
| <input type="radio"/> | <input type="radio"/> | Is the cold cathode lamp rated for at least 18,000 average life hours?        |

#### COLD CATHODE FLUORESCENT LAMP: 16 WATTS OR 32 WATTS WITH ELECTRONIC BALLAST

A 16-watt or 32-watt cold cathode fluorescent lamp with electronic ballast replacing a 4-foot or 5-foot T8 or T12 fluorescent lamp in a refrigerated case.

- |                       |                       |   |
|-----------------------|-----------------------|---|
| <input type="radio"/> | <input type="radio"/> | Is the lamp in a refrigerated case?   |
| <input type="radio"/> | <input type="radio"/> | Is the 16-watt or 32-watt cold cathode fluorescent lamp with electronic ballast replacing a 4-foot or 5-foot T8/T12 fluorescent lamp? |
| <input type="radio"/> | <input type="radio"/> | Is the cold cathode lamp rated for at least 80,000 average life hours?  |

SOLUTION CODE	SOLUTION DESCRIPTION FOR COLD CATHODE	INCENTIVE
		\$/unit of measure
LT-45910	Cold cathode fluorescent lamp: 2–8 watts	\$4.00 / lamp
LT-94919	Cold cathode fluorescent lamp: 16 watts with electronic ballast	\$30.00 / fixture
LT-61224	Cold cathode fluorescent lamp: 32 watts with electronic ballast	\$30.00 / fixture

# Energy Efficiency Incentives

A COMPLETE LIST OF QUALIFYING INCENTIVES CAN BE FOUND AT [WWW.SCE.COM/SOLUTIONS](http://WWW.SCE.COM/SOLUTIONS), OR, FOR MORE INFORMATION, CALL (800) 736-4777.

## LIGHTING CONTROLS

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

### Express Solution

YES NO

The answer should be "Yes" to every applicable question in a solution category for a project to qualify for that incentive. If you don't know the answer to the question, please contact your SCE Account Representative. If you don't know who your SCE Account Representative is, please call (800) 736-4777.

#### LIGHTING CONTROLS

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

- |  |                       |   |
|--|-----------------------|---|
| <input type="radio"/>  | <input type="radio"/> | Are hardwired passive infrared and/or ultrasonic detectors being installed to control interior lighting fixtures?   |
| <input type="radio"/>  | <input type="radio"/> | If planning to install self-contained wall-box lighting sensors, are the units without an exterior switch pack or relay and designed to replace a standard wall switch?         |
| <input type="radio"/>  | <input type="radio"/> | If planning to install fixture-integrated sensors, are the units factory-installed in a lighting fixture, used in interior installations, and control all lamps in the fixture? |
| <input type="radio"/>  | <input type="radio"/> | If applicable, do sensors meet the wattage-controlled requirements listed in the incentive table below?   |
| <input type="radio"/>  | <input type="radio"/> | 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.)   |
| <input type="radio"/>  | <input type="radio"/> | Will the proper ballast be used for the retrofit? Customers shall ensure that the appropriate ballast is in use for the installation.   |
| <b>PHOTOCELLS</b>  |                       |   |
| Exterior lights are turned on and off based on detection of exterior lighting levels (photocells). |                       |   |
| <input type="radio"/>  | <input type="radio"/> | Does the retrofit involve built-in or stand-alone photoelectric cells that switch outdoor lighting loads on at dusk and off at dawn?  |
| <b>TIME CLOCKS</b>   |                       |   |
| Exterior lights are turned on and off based on time of day (time clocks).                          |                       |   |
| <input type="radio"/>  | <input type="radio"/> | Will time clocks control lighting equipment?  |
| <input type="radio"/>  | <input type="radio"/> | Do units feature a minimum three-hour battery back-up to avoid time loss during power outages?  |
| <input type="radio"/>  | <input type="radio"/> | For outdoor lighting without a photocell, will astronomical time clocks (where on-off time follows sunset and sunrise) be used?   |

SOLUTION CODE	SOLUTION DESCRIPTION FOR LIGHTING CONTROLS	INCENTIVE
		\$/unit of measure
LT-58209	Wall-box lighting sensor	\$20.00 / sensor
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	\$55.00 / sensor
LT-41007	Integrated sensor: < 150 watts	\$15.00 / sensor
LT-76101	Integrated sensor: ≥ 150 watts	\$40.00 / sensor
LT-68108	Photocell	\$11.00 / photocell
LT-22809	Time clock	\$36.00 / time clock

# Energy Efficiency Incentives

A COMPLETE LIST OF QUALIFYING INCENTIVES CAN BE FOUND AT [WWW.SCE.COM/SOLUTIONS](http://WWW.SCE.COM/SOLUTIONS), OR, FOR MORE INFORMATION, CALL (800) 736-4777.

## FOOD SERVICE

### COMMERCIAL ICE MACHINES

An air-cooled ice machine that makes cubed (less than or equal to 60 grams), flaked, crushed, or fragmented ice. The entire system must be purchased and comply with ENERGY STAR® or CEE Tier III efficiency specifications.

For a list of qualifying Food Service products, visit [www.fishnick.com/saveenergy/rebates](http://www.fishnick.com/saveenergy/rebates).

- All incentives apply toward the purchase of new or replacement energy-efficient equipment
- Used or rebuilt equipment is not eligible
- Customers must provide proof that the appliances meet the energy-efficiency specifications

*Note: Commercial ice machines must be tested in accordance with the Air-Conditioning and Refrigeration Institute (ARI) Standard 810. Visit [www.ari.org](http://www.ari.org) for product information and testing procedures. Specifications are available at [www.energystar.gov/cfs](http://www.energystar.gov/cfs) and [www.cee1.org](http://www.cee1.org).*

### Express Solution

YES NO

The answer should be “Yes” to every applicable question in a solution category for a project to qualify for that incentive. If you don’t know the answer to the question, please contact your SCE Account Representative. If you don’t know who your SCE Account Representative is, please call (800) 736-4777.



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 ARI-tested ice-making system be purchased?



If proposed equipment is a remote machine, will the qualifying compressor unit be purchased with the remote machine?

*Note: The efficiency specifications for the two qualifying tiers are equivalent to ENERGY STAR® or CEE Tier III.*

SOLUTION CODE	SOLUTION DESCRIPTION FOR COMMERCIAL ICE MACHINES	INCENTIVE
		\$/unit of measure
	Air-cooled:	
FS-47481	101–200 lbs per day, ENERGY STAR®-qualified	\$50.00 / unit
FS-11418	201–300 lbs per day, ENERGY STAR®-qualified	\$50.00 / unit
FS-83031	301–400 lbs per day, ENERGY STAR®-qualified	\$75.00 / unit
FS-63559	401–500 lbs per day, ENERGY STAR®-qualified	\$75.00 / unit
FS-94466	501–1,000 lbs per day, ENERGY STAR®-qualified	\$125.00 / unit
FS-58123	1,001–1,500 lbs per day, ENERGY STAR®-qualified	\$200.00 / unit
FS-26777	> 1,500 lbs per day, ENERGY STAR®-qualified	\$250.00 / unit
FS-38811	101–200 lbs per day Tier III CEE	\$100.00 / unit
FS-18874	201–300 lbs per day Tier III CEE	\$100.00 / unit
FS-46691	301–400 lbs per day Tier III CEE	\$150.00 / unit
FS-76523	401–500 lbs per day Tier III CEE	\$150.00 / unit
FS-64114	501–1,000 lbs per day Tier III CEE	\$250.00 / unit
FS-52221	1,001–1,500 lbs per day Tier III CEE	\$400.00 / unit
FS-80045	> 1,500 lbs per day Tier III CEE	\$500.00 / unit

# Energy Efficiency Incentives

A COMPLETE LIST OF QUALIFYING INCENTIVES CAN BE FOUND AT [WWW.SCE.COM/SOLUTIONS](http://WWW.SCE.COM/SOLUTIONS), OR, FOR MORE INFORMATION, CALL (800) 736-4777.

## REFRIGERATION

### GENERAL REFRIGERATION ELIGIBILITY REQUIREMENTS

- All incentives apply toward the purchase of new or replacement energy-efficient equipment, unless otherwise indicated. Used or rebuilt equipment is not eligible.
- Customers must provide proof that the appliances meet the energy-efficiency specifications in this section.
- Medium temperature refers to refrigerated space temperatures between 1°F and 35°F. Low temperature covers temperatures below 0°F.

### STRIP CURTAINS Cover for a walk-in refrigerated space.

#### Express Solution

YES      NO

The answer should be “Yes” to every applicable question in a solution category for a project to qualify for that incentive. If you don’t know the answer to the question, please contact your SCE Account Representative. If you don’t know who your SCE Account Representative is, please call (800) 736-4777.

#### STRIP CURTAINS FOR WALK-IN BOXES

**Plastic strip curtains or swinging doors installed in the doorway of walk-in boxes or refrigerated warehouses to reduce heat transfer when the door is open.**



Are new strip curtains or plastic swinging doors being installed on doorways of walk-in boxes and refrigerated warehouses?



Does the retrofit involve the replacement of existing strip curtains that have no useful life left?



Has the square footage of the doorway been properly measured (measurement to be taken on inside of door frame)? Incentive is based on the square footage of the doorway. Doorway dimensions must be cited on invoice.

SOLUTION CODE	SOLUTION DESCRIPTION FOR STRIP CURTAINS	INCENTIVE
		\$/unit of measure
RF-14428	Strip curtains for walk-in boxes	\$3.00/ sq ft

# Energy Efficiency Incentives

A COMPLETE LIST OF QUALIFYING INCENTIVES CAN BE FOUND AT [WWW.SCE.COM/SOLUTIONS](http://WWW.SCE.COM/SOLUTIONS), OR, FOR MORE INFORMATION, CALL (800) 736-4777.

## DOORS

Cover for a 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.

### Express Solution

YES NO

The answer should be “Yes” to every applicable question in a solution category for a project to qualify for that incentive. If you don’t know the answer to the question, please contact your SCE Account Representative. If you don’t know who your SCE Account Representative is, please call (800) 736-4777.

#### 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.

<input type="radio"/>	<input type="radio"/>
<input type="radio"/>	<input type="radio"/>

Will the auto-closer be applied to the main insulated opaque door(s) of a 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?

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

## DOOR GASKETS

A pliable, flexible, continuous strip of material used to effect an airtight seal between sash and frame of a refrigerator door.

### Express Solution

YES NO

The answer should be “Yes” to every applicable question in a solution category for a project to qualify for that incentive. If you don’t know the answer to the question, please contact your SCE Account Representative. If you don’t know who your SCE Account Representative is, please call (800) 736-4777.

#### DOOR GASKETS ON WALK-IN DOORS

Replacement of worn gaskets of an insulated, hinged door of a walk-in cooler or freezer to reduce refrigerated air loss.

<input type="radio"/>	<input type="radio"/>
<input type="radio"/>	<input type="radio"/>
<input type="radio"/>	<input type="radio"/>
<input type="radio"/>	<input type="radio"/>

Is a worn gasket on the insulated door of a walk-in cooler or freezer being replaced? Only change out door gaskets that have no useful life left.

Do replacement gaskets meet the manufacturer’s installation specifications, specifically regarding dimensions, materials, attachment method, style, compression, and magnetism?

Is the refrigerated door hinged? Sliding doors, ice storage bins and drawers are not eligible.

Has the perimeter of the door been properly measured? Rebate is based on total door perimeter in linear feet. Provide exact measurements of door perimeter on invoice or worksheet. Do not round up.

*Note: Life expectancy is five years for gasket measures. Customers are eligible to re-apply for a gasket incentive after five years if the gasket has no remaining useful life. For example: if a gasket incentive was issued 1/1/06, a customer would be eligible to re-participate 1/2/11.*

# Energy Efficiency Incentives

A COMPLETE LIST OF QUALIFYING INCENTIVES CAN BE FOUND AT [WWW.SCE.COM/SOLUTIONS](http://WWW.SCE.COM/SOLUTIONS), OR, FOR MORE INFORMATION, CALL (800) 736-4777.

## DOOR GASKETS, CONTINUED

YES

NO

### DOOR GASKETS ON REACH-IN DOORS

Replacement of worn gaskets of a hinged door of a reach-in cooler or freezer to reduce refrigerated air loss.



Is a worn gasket on the insulated door of a reach-in cooler or freezer being replaced? Only change out door gaskets that have no useful life left.



Do replacement gaskets meet the manufacturer's installation specifications, specifically regarding dimensions, materials, attachment method, style, compression, and magnetism?



Is the refrigerated door hinged? Sliding doors, ice storage bins and drawers are not eligible.



Has the perimeter of the door been properly measured? Rebate is based on total door perimeter in linear feet. Provide exact measurements of door perimeter on invoice or worksheet. Do not round up.

*Note: Life expectancy is five years for gasket measures. Customers are eligible to re-apply for a gasket incentive after five years if the gasket has no remaining useful life. For example: if a gasket incentive was issued 1/1/06, a customer would be eligible to re-participate 1/2/11.*

SOLUTION CODE	SOLUTION DESCRIPTION FOR DOOR GASKETS	INCENTIVE
		\$/unit of measure
	Door gaskets:	
RF-53334	Door gaskets on walk-in doors	\$2.00 / linear ft
RF-87833	Door gaskets on reach-in doors	\$2.00 / linear ft

## REFRIGERATION MOTORS

Devices that convert electric energy into rotating mechanical energy for refrigeration.

### Express Solution

YES

NO

The answer should be "Yes" to every applicable question in a solution category for a project to qualify for that incentive. If you don't know the answer to the question, please contact your SCE Account Representative. If you don't know who your SCE Account Representative is, please call (800) 736-4777.

### EFFICIENT EVAPORATOR FAN MOTOR

Electronically commutated motors (ECMs) replacing a standard efficiency shaded-pole evaporator fan motor of refrigerated display cases or fan coil systems in walk-in boxes.



Is the existing equipment a standard efficiency shaded-pole evaporator fan motor of refrigerated display cases or fan coil systems in walk-ins?



Are shaded-pole motors being replaced by ECMs?



Is this the only Express Solution category under which the fans are receiving incentives? This solution cannot be used in conjunction with Evaporator Fan Controller for Walk-in Coolers and Freezers category.

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
RF-73198	Electronically commutated motor (ECM) in walk-in boxes	\$50.00 / motor

# Energy Efficiency Incentives

A COMPLETE LIST OF QUALIFYING INCENTIVES CAN BE FOUND AT [WWW.SCE.COM/SOLUTIONS](http://WWW.SCE.COM/SOLUTIONS), OR, FOR MORE INFORMATION, CALL (800) 736-4777.

## DISPLAY CASES

Horizontal and vertical refrigerated display cases.

### Express Solution

YES NO

The answer should be “Yes” to every applicable question in a solution category for a project to qualify for that incentive. If you don’t know the answer to the question, please contact your SCE Account Representative. If you don’t know who your SCE Account Representative is, please call (800) 736-4777.

#### 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.**

YES  NO

Is a cover being installed on an otherwise open display case to decrease cooling load of the refrigerated case during off hours?

YES  NO

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.

YES  NO

Does the film type cover have small, perforated holes to decrease moisture buildup? (This is recommended; however, it is not required.)

YES  NO

Will the cover be applied for an average period of at least 6 hours per day?

YES  NO

Have the following been considered?

- Using proper compressor capacity modulation mechanisms (such as variable-speed drive (VSD) or cylinder un-loader)
- Using evaporator pressure regulator (EPR) and possibly resetting to higher suction temperatures when shields are applied
- Resizing TVX and resetting suction pressure to a higher value

YES  NO

Will installing night covers impact system performance? Consult with the case manufacturer or an authorized representative to determine if installing night covers will impact system performance.

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

**Replacement of an existing 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.**

YES  NO

Does the retrofit involve the replacement of an existing open multi-deck display case with a new high-efficiency reach-in unit with standard glass doors with ECM fan, T8 lamps and electronic ballast? This solution can be applied to self-contained or remote cases.

YES  NO

Have the display cases been properly measured? New display cases are incentivized based on linear footage of new display case.

YES  NO

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.

#### 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.**

YES  NO

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?

YES  NO

Is the new case length equal to or shorter than the original case? Incentive is based on linear footage of the new display case.

# Energy Efficiency Incentives

A COMPLETE LIST OF QUALIFYING INCENTIVES CAN BE FOUND AT [WWW.SCE.COM/SOLUTIONS](http://WWW.SCE.COM/SOLUTIONS), OR, FOR MORE INFORMATION, CALL (800) 736-4777.

## DISPLAY CASES, CONTINUED

YES

NO



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 meeting the requirements of Incentive F

**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. The anti-sweat heater of the new door must consume no more than 0.39 amps per foot of display case.



Is an existing standard glass door of a low-temperature reach-in display case being replaced with a special glass door that requires minimum to no anti-sweat heat (ASH)?



Will new doors prevent condensation from occurring within the frame assembly?



Is the total amperage (at 120 volts) from the door rail, glass, and frame heater equal to or less than 0.39 amps per foot (length) of 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.

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
	New refrigeration display case with doors:	
RF-75389	Low-temp	\$175.00 / linear ft
RF-68765	Med-temp	\$75.00 / linear ft
RF-25928	New high-efficiency refrigeration display case with special doors (low-temp)	\$75.00 / linear ft
RF-43276	Special doors with low/no anti-sweat heat on low-temp display case	\$100.00 / door

# Energy Efficiency Incentives

A COMPLETE LIST OF QUALIFYING INCENTIVES CAN BE FOUND AT [WWW.SCE.COM/SOLUTIONS](http://WWW.SCE.COM/SOLUTIONS), OR, FOR MORE INFORMATION, CALL (800) 736-4777.

## INSULATION

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

### Express Solution

YES NO

The answer should be “Yes” to every applicable question in a solution category for a project to qualify for that incentive. If you don’t know the answer to the question, please contact your SCE Account Representative. If you don’t know who your SCE Account Representative is, please call (800) 736-4777.

#### INSULATION FOR BARE SUCTION LINES

**Bare suction lines insulated with closed-cell nitrite rubber or equivalent with at least ¾" for medium-temperature and 1" for low-temperature systems. The suction line must be no more than 1 5/8" in diameter.**

YES  NO

Does the retrofit involve insulating bare refrigeration suction lines of 1 5/8" inches or less on existing equipment only?

YES  NO

If insulating medium-temperature lines, will ¾" of flexible closed-cell nitrite rubber or equivalent insulation be used?

YES  NO

If insulating low-temperature lines, will 1" of flexible closed-cell nitrite rubber or equivalent insulation be used?

YES  NO

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.*

#### WINE TANK INSULATION

**Insulation with a value greater than or equal to R-12 that is being added to an existing non-insulated refrigerated wine tank to reduce load on the refrigeration system to maintain appropriate temperatures.**

YES  NO

Please go to [www.energy.ca.gov/maps/building\\_climate\\_zones.html](http://www.energy.ca.gov/maps/building_climate_zones.html) to locate your Climate Zone:  
 – “Coastal” includes Climate Zones 6, 8, and 9  
 – “Central Valley” includes Climate Zones 10, 13, 14, 15, and 16

YES  NO

Does the new wine tank insulation have an insulation value greater than or equal to R-12?

YES  NO

Is the new wine tank insulation being added to an existing refrigerated wine tank with no insulation?

YES  NO

Can the manufacturer’s specification sheet be provided for the wine tank insulation? Please submit a copy of the manufacturer’s specification sheet with the application.

SOLUTION CODE	SOLUTION DESCRIPTION FOR INSULATION	INCENTIVE
		\$/unit of measure
RF-82221	Insulation for bare suction lines	\$2.00 / linear ft
	Wine tank insulation:	
RF-75849	Indoor tank	\$2.25 / sq ft
RF-94332	Outdoor tank—Coastal	\$3.00 / sq ft
RF-89431	Outdoor tank—Central Valley	\$3.75 / sq ft

# Energy Efficiency Incentives

A COMPLETE LIST OF QUALIFYING INCENTIVES CAN BE FOUND AT [WWW.SCE.COM/SOLUTIONS](http://WWW.SCE.COM/SOLUTIONS), OR, FOR MORE INFORMATION, CALL (800) 736-4777.

## REFRIGERATION CONTROLS

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

### Express Solution

YES NO

The answer should be "Yes" to every applicable question in a solution category for a project to qualify for that incentive. If you don't know the answer to the question, please contact your SCE Account Representative. If you don't know who your SCE Account Representative is, please call (800) 736-4777.

#### 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.

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?

Will a minimum fan load of 1/20 horsepower be controlled where the fan(s) operate continuously at full speed?

Will fan motor power be reduced by at least 75% during the compressor off-cycle?  
Not eligible if any of the following conditions apply:

- The compressor runs all the time with high duty cycle
- The evaporator fan does not run at full speed all the time
- The evaporator fan motor runs on poly-phase power
- The evaporator fan motor is not shaded-pole, or
- Evaporator does not use off-cycle or time-off defrost

#### 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.

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.

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.

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

#### VENDING MACHINE CONTROLLER

Controller shuts off lighting and compressor of a non-perishable product vending machine when surrounding area is unoccupied for 15 minutes or longer. The control must power up the compressor at least every two hours to maintain product temperature.

Do the refrigerated vending machines contain only non-perishable bottled and canned beverages?

Will the controller include a passive infrared occupancy sensor to turn off fluorescent lights and compressor when surrounding area is unoccupied for 15 minutes or longer?

Will control logic periodically power up the machine at two-hour intervals to maintain product temperature and provide compressor protection? Refurbished vending machines that include this option are eligible.

# Energy Efficiency Incentives

A COMPLETE LIST OF QUALIFYING INCENTIVES CAN BE FOUND AT [WWW.SCE.COM/SOLUTIONS](http://WWW.SCE.COM/SOLUTIONS), OR, FOR MORE INFORMATION, CALL (800) 736-4777.

## REFRIGERATION CONTROLS, CONTINUED

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
RF-48112	Anti-sweat heater (ASH) controls	\$25.00 / linear ft
RF-75217	Vending machine controller	\$100.00 / controller

## 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

YES NO

The answer should be "Yes" to every applicable question in a solution category for a project to qualify for that incentive. If you don't know the answer to the question, please contact your SCE Account Representative. If you don't know who your SCE Account Representative is, please call (800) 736-4777.

YES  NO

Does the film have a minimum five-year manufacturer's warranty?

YES  NO

Is the space cooled by vapor-compression air conditioner? Evaporative-cooled space is not eligible.

YES  NO

Does the film, applied to clear single-pane glass, 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:  $SHGC = SC \times .87$

YES  NO

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.*

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

# Energy Efficiency Incentives

A COMPLETE LIST OF QUALIFYING INCENTIVES CAN BE FOUND AT [WWW.SCE.COM/SOLUTIONS](http://WWW.SCE.COM/SOLUTIONS), OR, FOR MORE INFORMATION, CALL (800) 736-4777.

## WATER HEATING

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

### Express Solution

**YES**      **NO**

The answer should be “Yes” to every applicable question in a solution category for a project to qualify for that incentive. If you don’t know the answer to the question, please contact your SCE Account Representative. If you don’t know who your SCE Account Representative is, please call (800) 736-4777.

### ELECTRIC STORAGE WATER HEATER

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



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.*

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

# Energy Efficiency Incentives

A COMPLETE LIST OF QUALIFYING INCENTIVES CAN BE FOUND AT [WWW.SCE.COM/SOLUTIONS](http://WWW.SCE.COM/SOLUTIONS), OR, FOR MORE INFORMATION, CALL (800) 736-4777.

## 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.

#### Express Solution

YES NO

The answer should be "Yes" to every applicable question in a solution category for a project to qualify for that incentive. If you don't know the answer to the question, please contact your SCE Account Representative. If you don't know who your SCE Account Representative is, please call (800) 736-4777.

#### 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.



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?



Do units have an EER that is 20% higher than the minimum that is eligible? Minimum EER is calculated from the following equations:

- PTAC Min EER =  $10.9 - (0.213 \times \text{_____} \div 1,000)$  (capacity in Btu/hr<sup>1</sup>)
- PTHP Min EER =  $10.8 - (0.213 \times \text{_____} \div 1,000)$  (capacity in Btu/hr<sup>1</sup>)

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

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

# Energy Efficiency Incentives

A COMPLETE LIST OF QUALIFYING INCENTIVES CAN BE FOUND AT [WWW.SCE.COM/SOLUTIONS](http://WWW.SCE.COM/SOLUTIONS), OR, FOR MORE INFORMATION, CALL (800) 736-4777.

## EVAPORATIVE COOLERS

An evaporative cooler is a device that cools air through the simple evaporation of water.

### Express Solution

YES NO

The answer should be “Yes” to every applicable question in a solution category for a project to qualify for that incentive. If you don’t know the answer to the question, please contact your SCE Account Representative. If you don’t know who your SCE Account Representative is, please call (800) 736-4777.

#### 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.

YES  NO

Is an existing, vapor-compression air conditioning system being replaced? If not, will the existing compressor be made inoperative?

YES  NO

Will retrofitted system not have “constant bleed” option?

YES  NO

Is the project site in climate zones 9, 10, 13, 14, or 15?

YES  NO

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.

YES  NO

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 (a bleed system is not allowed)?

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

# Energy Efficiency Incentives

A COMPLETE LIST OF QUALIFYING INCENTIVES CAN BE FOUND AT [WWW.SCE.COM/SOLUTIONS](http://WWW.SCE.COM/SOLUTIONS), OR, FOR MORE INFORMATION, CALL (800) 736-4777.

## OFFICE EQUIPMENT

### COPIER

A photocopier (or copier) is a machine that makes paper copies of documents and other visual images quickly and cheaply.

#### Express Solution

YES

NO

The answer should be “Yes” to every applicable question in a solution category for a project to qualify for that incentive. If you don’t know the answer to the question, please contact your SCE Account Representative. If you don’t know who your SCE Account Representative is, please call (800) 736-4777.

#### HIGH-EFFICIENCY COPIER

**ENERGY STAR® high-efficiency copier with an idle or off control capability.**



Will new copy machine be ENERGY STAR®-qualified and replace a copier without an idle/off control capability? A list of qualifying models can be found at the ENERGY STAR® website, [www.energystar.gov/products](http://www.energystar.gov/products). Desktop copiers are not eligible for an incentive.



Is this the only Express Solution category under which the copier is receiving an incentive? This incentive cannot be used in conjunction with Plug Load Occupancy Sensor category.



If equipment is being leased, can a lease agreement be provided with the following information?

1. Lease start date
2. Length of lease (must be for 3+ years)
3. Payment terms (i.e., net 30, net 60, payment due date)
4. Itemized list for each equipment type
  - a) Make or brand name and model information
  - b) Cost per unit
  - c) Quantity installed

SOLUTION CODE	SOLUTION DESCRIPTION FOR COPIER	INCENTIVE \$/unit of measure
OE-10404	High-efficiency copier	\$100.00 / unit

# Energy Efficiency Incentives

A COMPLETE LIST OF QUALIFYING INCENTIVES CAN BE FOUND AT [WWW.SCE.COM/SOLUTIONS](http://WWW.SCE.COM/SOLUTIONS), OR, FOR MORE INFORMATION, CALL (800) 736-4777.

## 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.

### Express Solution

YES NO

The answer should be "Yes" to every applicable question in a solution category for a project to qualify for that incentive. If you don't know the answer to the question, please contact your SCE Account Representative. If you don't know who your SCE Account Representative is, please call (800) 736-4777.

### 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.



Does the retrofit involve the installation of passive infrared and/or ultrasonic detectors?



Will plug load occupancy sensors control electric equipment in offices or cubicles, or control shared copy machines and/or printers?



Will plug load sensors control a minimum of 50 watts?

### PC NETWORK SOFTWARE

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



Will software be installed that automatically controls the power settings of networked personal computers (PC) at the server level? Laptops are not eligible for incentive.



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)

SOLUTION CODE	SOLUTION DESCRIPTION FOR OFFICE EQUIPMENT CONTROLS	INCENTIVE
		\$/unit of measure
OE-49876	Plug load occupancy sensor	\$15.00 / sensor
OE-65003	PC network software	\$15.00 / PC

# 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 Representative or call (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 in the 2010 Express Statewide Procedures Manual for Business at [www.sce.com/Express\\_Solutions](http://www.sce.com/Express_Solutions).

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

For complete terms and conditions for Express Solutions, go to [www.sce.com/Express\\_Solutions](http://www.sce.com/Express_Solutions).

# Appendix

## Incentive Eligibility Requirements

EXPRESS SOLUTIONS  
ELIGIBILITY  
REQUIREMENTS,  
CONTINUED

### 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 [www.sce.com/Express\\_Solutions](http://www.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 (800) 736-4777.

#### • **Be the same fuel source as the replaced equipment**

Fuel switching is not permitted. Electric equipment can only be replaced with qualifying electric equipment, and gas equipment can only be replaced with qualifying gas equipment.

#### 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.

For complete terms and conditions for Express Solutions, go to [www.sce.com/Express\\_Solutions](http://www.sce.com/Express_Solutions).

# Appendix

## Incentive Eligibility Requirements

EXPRESS SOLUTIONS  
ELIGIBILITY  
REQUIREMENTS,  
CONTINUED

- 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 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.

### EXPRESS SOLUTIONS EQUIPMENT INCENTIVE LIMITS

Refer to the Energy Management Solutions Incentives Application or [www.sce.com/Express\\_Solutions](http://www.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 equipment:** 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.

For complete terms and conditions for Express Solutions, go to [www.sce.com/Express\\_Solutions](http://www.sce.com/Express_Solutions).

# Appendix

## Incentive Eligibility Requirements

EXPRESS SOLUTIONS  
ELIGIBILITY  
REQUIREMENTS,  
CONTINUED

### 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 \$200 re-inspection fee will also be assessed to the Customer or 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

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

<sup>1</sup> [http://www.eia.doe.gov/emeu/cbecs/building\\_types.html](http://www.eia.doe.gov/emeu/cbecs/building_types.html)