

Third Edition, February 2011

# Solutions Directory

2010–2012

# Providing Solutions

This Solutions Directory is a reference guide that includes a complete list of eligible equipment and qualification criteria for incentives available to customers through the 2010–2012 program cycle. It also includes a summary of Demand Response Technology Incentives available for customers installing qualified equipment that enables load-shifting strategies.

The SCE Energy Management Solutions Guides include a listing of the typical solutions used by customers within select segments. Both the Solutions Directory and the Energy Management Solutions Guides are available online at [www.sce.com/solutions](http://www.sce.com/solutions). They will be updated quarterly, with quarterly addenda posted online. Online versions will always contain the most complete and current list of solutions and qualification criteria. Contact your SCE Account Representative for printed materials.

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† Note: Door gaskets are no longer eligible for incentives.

▲ Indicates new technology categories and updated qualifying criteria.

# 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 66, and online at [www.sce.com/Express\\_Solutions](http://www.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 Representative. If you don't know who your SCE Account Representative is, please call (800) 736-4777 for assistance.

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

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

Itemized incentives do not require a pre-installation inspection of existing equipment unless a project with similar equipment received an incentive. Projects qualifying for more than \$7,000 in incentives will require a post-installation inspection of the new equipment. Projects under \$7,000 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 [www.sce.com/solutions](http://www.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 can be submitted for qualifying equipment that is already installed or for equipment that will be installed as part of a future comprehensive project including Customized Solutions.

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.

**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

**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?**

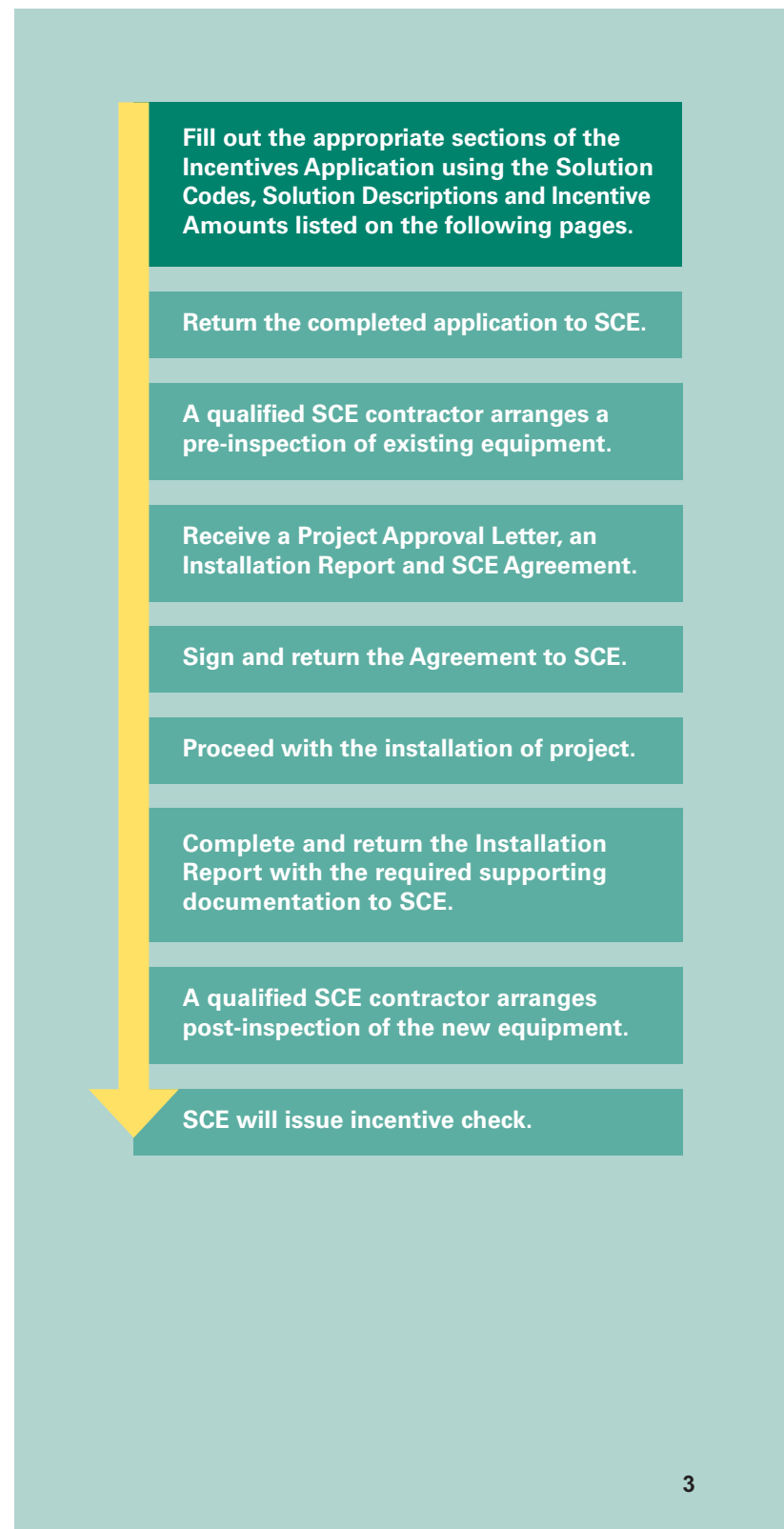
Customized Solutions eligibility requirements are located in the Appendix on page 70, and online at [www.sce.com/Customized\\_Solutions](http://www.sce.com/Customized_Solutions).

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

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

**For most solutions, the Online Application Tool on [www.sce.com/solutions](http://www.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.
- 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.

#### 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.

##### 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 [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.*

##### Express Solution

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

##### Customized Solution

SOLUTION CODE	SOLUTION DESCRIPTION FOR LINEAR FLUORESCENT	INCENTIVE	
		\$/kWh	\$/kW <sup>1</sup>
	Interior linear fluorescent lighting:		
LT-51003	Interior linear fluorescent retrofits	\$0.05	\$100
LT-58431	Other interior linear fluorescent lighting	\$0.05	\$100

For complete terms and conditions, go to [www.sce.com/solutions](http://www.sce.com/solutions). Please refer to the "What's New" section of the Online Application ([www.sceonlineapp.com](http://www.sceonlineapp.com)) for additions, deletions and other changes to 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 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).

**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 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.

**Express Solution**

SOLUTION CODE	SOLUTION DESCRIPTION FOR LINEAR FLUORESCENT	INCENTIVE	
		\$/unit of measure	
	T8 to T8 reduced wattage interior lamp and ballast retrofit:		
LT-84012	28 watts	\$2.50 / lamp	
LT-67100	25 watts	\$4.00 / lamp	

**Customized Solution**

SOLUTION CODE	SOLUTION DESCRIPTION FOR LINEAR FLUORESCENT	INCENTIVE	
		\$/kWh	\$/kW'
	Interior linear fluorescent lighting:		
LT-51003	Interior linear fluorescent retrofits	\$0.05	\$100
LT-58431	Other interior linear fluorescent lighting	\$0.05	\$100

For complete terms and conditions, go to [www.sce.com/solutions](http://www.sce.com/solutions). Please refer to the “What’s New” section of the Online Application ([www.sceonlineapp.com](http://www.sceonlineapp.com)) for additions, deletions and other changes to 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

### 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.

#### 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.

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

### DE-LAMPING

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

#### 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 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.

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



LINEAR FLUORESCENT, CONTINUED

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

**Express Solution**

SOLUTION CODE	SOLUTION DESCRIPTION FOR LINEAR FLUORESCENT	INCENTIVE	
		\$/unit of measure	
	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-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	

▲ **Note: Solution code LT-88210 T8 interior lamp and electronic ballast: 4-foot (T12 replacement only) expired June 30, 2010.**

**Customized Solution**

SOLUTION CODE	SOLUTION DESCRIPTION FOR LINEAR FLUORESCENT	INCENTIVE	
		\$/kWh	\$/kW'
	Interior linear fluorescent lighting:		
LT-51003	Interior linear fluorescent retrofits	\$0.05	\$100
LT-58431	Other interior linear fluorescent lighting	\$0.05	\$100

▲ Indicates updated qualifying criteria

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

# Energy Efficiency

## Incentives

LINEAR FLUORESCENT, CONTINUED

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

▲ Lamp-only retrofit to a newer generation 4-foot, 82+ CRI 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 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.

#### Express Solution

SOLUTION CODE	SOLUTION DESCRIPTION FOR LINEAR FLUORESCENT	INCENTIVE	
		\$/unit of measure	
	T5HO to T5HO reduced wattage interior lamp-only retrofit:		
LT-30612	49 or 51 watts		\$2.00 / lamp

#### Customized Solution

SOLUTION CODE	SOLUTION DESCRIPTION FOR LINEAR FLUORESCENT	INCENTIVE	
		\$/kWh	\$/kW <sup>1</sup>
	Interior linear fluorescent lighting:		
LT-51003	Interior linear fluorescent retrofits	\$0.05	\$100
LT-58431	Other interior linear fluorescent lighting	\$0.05	\$100

▲ Indicates updated qualifying criteria

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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 T12 fluorescent 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 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, **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? 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?

**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	\$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, up to 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	

**Customized Solution**

SOLUTION CODE	SOLUTION DESCRIPTION FOR LINEAR FLUORESCENT	INCENTIVE	
		\$/kWh	\$/kW <sup>1</sup>
	Interior linear fluorescent lighting:		
LT-51003	Interior linear fluorescent retrofits	\$0.05	\$100
LT-58431	Other interior linear fluorescent lighting	\$0.05	\$100

▲ Indicates updated qualifying criteria

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

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# Energy Efficiency

## Incentives

LINEAR FLUORESCENT, CONTINUED

### 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.

#### 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 [www.cee1.org/com/com-lt/com-lt-main.php3](http://www.cee1.org/com/com-lt/com-lt-main.php3).**
- 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.*

#### 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	\$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

#### Customized Solution

SOLUTION CODE	SOLUTION DESCRIPTION FOR LINEAR FLUORESCENT	INCENTIVE	
		\$/kWh	\$/kW <sup>1</sup>
	Interior linear fluorescent lighting:		
LT-51003	Interior linear fluorescent retrofits	\$0.05	\$100
LT-58431	Other interior linear fluorescent lighting	\$0.05	\$100
	Exterior linear fluorescent lighting:		
LT-39008	Exterior linear fluorescent retrofits	\$0.05	\$100
LT-70908	Other exterior linear fluorescent lighting	\$0.05	\$100

▲ Indicates updated qualifying criteria

For complete terms and conditions, go to [www.sce.com/solutions](http://www.sce.com/solutions). Please refer to the "What's New" section of the Online Application ([www.sceonlineapp.com](http://www.sceonlineapp.com)) for additions, deletions and other changes to 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.



**PULSE START/  
CERAMIC METAL  
HALIDE**

A variation of the mercury-vapor lamp. It contains a ceramic tube inside the lamp that heats a mercury-argon mixture, creating a bluish light that is close to daylight with a CRI (Color Rendering Index) of 96. A change in the lamp and ballast construction allows pulse start metal halide lamps to start using a high-voltage igniter in the ballast instead of a starting electrode (probe) in the lamp.

**INTERIOR PULSE START/CERAMIC METAL HALIDE FIXTURES**

New, hardwired pulse start or ceramic metal halide fixtures replacing, one for one, an existing, less efficient lighting source, such as incandescent 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.

- Are complete new pulse start/ceramic metal halide fixtures or retrofit kits being installed?
- 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?
- If installing retrofit kits, will retrofit kits be used on existing mercury vapor, standard metal halide, or high-pressure sodium fixtures only?
- Will the new fixtures or retrofit kits have a wattage equal to or less than the maximum wattage listed in the incentive table that follows for each range of lamp wattage being replaced and have a lower wattage than the fixture being replaced?
- Will fixtures be equipped with pulse start metal halide lamps and either magnetic or electronic ballasts?
- Will all replacement fixtures be hardwired?
- Will fixtures be installed at a height over 12’ above the finished floor to qualify for 400-watt and greater-than-400-watt categories?
- Is this the only Express Solution category under which the fixtures are receiving incentives? Fixtures are not eligible for additional incentives under the other categories, but may qualify for an occupancy sensor incentive under Lighting Controls and Sensors, provided all requirements are met.

**Express Solution**

SOLUTION CODE	SOLUTION DESCRIPTION FOR PULSE START/CERAMIC METAL HALIDE	INCENTIVE
		\$/unit of measure
	Interior pulse start/ceramic metal halide (PSMH or CMH) fixtures:	
LT-50223	≤ 100-watt lamp existing, up to 70-watt replacement PSMH or CMH lamp	\$20.00 / fixture
LT-38071	101- to 175-watt lamp existing, up to 125-watt replacement PSMH or CMH lamp	\$35.00 / fixture
LT-71883	176- to 399-watt lamp existing, up to 175-watt replacement PSMH or CMH lamp	\$40.00 / fixture
LT-64118	400-watt lamp existing, up to 250-watt replacement PSMH or CMH lamp	\$75.00 / fixture
LT-48241	> 400-watt lamp existing, up to 750-watt replacement PSMH or CMH lamp	\$90.00 / fixture
LT-18932	> 400-watt lamp existing, up to 600-watt replacement PSMH or CMH lamp	\$150.00 / fixture

# Energy Efficiency

## Incentives

PULSE START/CERAMIC METAL HALIDE, CONTINUED

### EXTERIOR PULSE START/CERAMIC METAL HALIDE FIXTURES

New, hardwired pulse start or ceramic metal halide fixtures replacing, one for one, an existing, less efficient lighting source such as incandescent 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.

- Are complete new pulse start/ceramic metal halide fixtures or retrofit kits being installed?
- Are new fixtures replacing, one for one, existing incandescent, mercury vapor, T12/high output fluorescent, T12/very high output fluorescent, standard metal halide, or high-pressure sodium fixtures? Retrofit kits may be used on existing mercury vapor, standard metal halide, or high-pressure sodium fixtures only.
- If installing retrofit kits, will retrofit kits be used on existing mercury vapor, standard metal halide, or high-pressure sodium fixtures only?
- Will the new fixtures or retrofit kits have a wattage equal to or less than the maximum wattage listed in the incentive table that follows for each range of lamp wattage being replaced and have a lower wattage than the fixture being replaced?
- Will fixtures be equipped with pulse start metal halide lamps and either magnetic or electronic ballasts?
- Will all replacement fixtures be hardwired?
- 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 PULSE START/CERAMIC METAL HALIDE	INCENTIVE
		\$/unit of measure
	Exterior pulse start/ceramic metal halide (PSMH / CMH) fixtures:	
LT-63722	≤ 100-watt lamp existing, up to 70-watt replacement PSMH or CMH lamp	\$15.00 / fixture
LT-77822	101- to 175-watt lamp existing, up to 100-watt replacement PSMH or CMH lamp	\$20.00 / fixture
LT-59921	176- to 200-watt lamp existing, up to 125-watt replacement PSMH or CMH lamp	\$25.00 / fixture
LT-35561	201- to 399-watt lamp existing, up to 175-watt replacement PSMH or CMH lamp	\$25.00 / fixture
LT-90144	400-watt lamp existing, up to 250-watt replacement PSMH or CMH lamp	\$45.00 / fixture
LT-44532	> 400-watt lamp existing, up to 750-watt replacement PSMH or CMH lamp	\$75.00 / fixture

### INTEGRATED BALLAST CERAMIC METAL HALIDE PAR LAMPS

Integrated ceramic metal halide 24- or 25-watt PAR lamp with a lamp life of at least 10,500 hours.

#### 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 replacement of existing reflector-type incandescent, PAR halogen, or PAR halogen infrared (IR) lamps?
- Is the integrated ballast ceramic metal halide PAR lamp 24 or 25 watts?
- Does the integrated ballast ceramic metal halide PAR lamp have a rated lamp life of 10,500 hours or greater?
- Is the integrated ballast ceramic metal halide PAR lamp compatible with the existing equipment and controls? Customers are responsible for determining if the lamp will fit in their existing equipment and for verifying compatibility with existing lighting controls.

#### Express Solution

SOLUTION CODE	SOLUTION DESCRIPTION FOR PULSE START/CERAMIC METAL HALIDE	INCENTIVE
		\$/unit of measure
LT-17432	Integrated ballast ceramic metal halide PAR lamps	\$17.50 / lamp

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PULSE START/CERAMIC METAL HALIDE, CONTINUED

### CERAMIC METAL HALIDE ADJUSTABLE ACCENT LIGHTING FIXTURES

A ceramic metal halide (CMH) adjustable accent lighting fixture rated 39 watts or less that is compatible with existing controls.

#### 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 replacement of existing reflector-type incandescent, PAR halogen, or PAR halogen infrared (IR) lamps?
- Does the ceramic metal halide adjustable accent lighting fixture have a nominal lamp wattage of 39 watts or lower?
- Is the ceramic metal halide adjustable accent lighting fixture compatible with the existing controls? Customers are responsible for verifying compatibility with existing lighting controls.

*Note: In all cases, the wattage of the replacement fixture must be less than the wattage of the existing lamp. The maximum replacement wattage listed in the table that follows is typically associated with the highest wattage in the base-case range.*

#### Express Solution

SOLUTION CODE	SOLUTION DESCRIPTION FOR PULSE START/CERAMIC METAL HALIDE	INCENTIVE	
		\$/unit of measure	
LT-37736	Ceramic metal halide adjustable accent lighting: ≤ 39 watts	\$45.00 / fixture	

### HIGH INTENSITY DISCHARGE (HID)

A lamp that consists of a sealed arc tube inside a glass envelope, or outer jacket. The inner arc tube is filled with elements that emit light when ionized by electric current. A ballast is required to provide the proper starting voltage and to regulate current during operation.

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

SOLUTION CODE	SOLUTION DESCRIPTION FOR HIGH INTENSITY DISCHARGE (HID)	INCENTIVE	
		\$/kWh	\$/kW <sup>1</sup>
	Interior HID lighting:		
LT-96977	Interior HID retrofits	\$0.05	\$100
LT-89706	Other interior HID lighting	\$0.05	\$100
	Exterior HID lighting retrofits:		
LT-78723	Exterior HID retrofits	\$0.05	\$100
LT-30958	Other exterior HID lighting	\$0.05	\$100

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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, such as incandescent 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 induction 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 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, T12 linear fluorescent, standard metal halide, or high-pressure sodium fixtures in interior installations? 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 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, but may qualify for an occupancy sensor incentive under Lighting Controls and Sensors, provided all requirements are met.

#### 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	\$35.00 / fixture	
LT-26734	101- to 175-watt lamp existing, up to 120-watt induction lamp	\$60.00 / fixture	
LT-80108	176- to 399-watt lamp existing, up to 180-watt induction lamp	\$75.00 / fixture	
LT-34098	400-watt lamp existing, up to 250-watt induction lamp (Tier 1)	\$125.00 / fixture	
LT-69009	400-watt lamp existing, up to 360-watt induction lamp (Tier 2)	\$60.00 / fixture	

#### Customized Solution

SOLUTION CODE	SOLUTION DESCRIPTION FOR INDUCTION	INCENTIVE	
		\$/kWh	\$/kW <sup>1</sup>
	Interior induction lighting fixtures:		
LT-64209	Interior induction retrofits	\$0.05	\$100
LT-90483	Other interior induction lighting	\$0.05	\$100

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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 such as incandescent 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 induction fixtures being installed?
- 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, T12 linear fluorescent, standard 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	\$45.00 / fixture	
LT-21067	176- to 200-watt lamp existing, up to 120-watt replacement fixture	\$50.00 / fixture	
LT-58832	201- to 399-watt lamp existing, up to 180-watt replacement fixture	\$50.00 / fixture	
LT-78695	400-watt lamp existing, up to 250-watt replacement fixture	\$100.00 / fixture	

**Customized Solution**

SOLUTION CODE	SOLUTION DESCRIPTION FOR INDUCTION	INCENTIVE	
		\$/kWh	\$/kW <sup>1</sup>
	Exterior induction lighting retrofits:		
LT-55464	Exterior induction retrofits	\$0.05	\$100
LT-87643	Other exterior induction lighting	\$0.05	\$100

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

# Energy Efficiency

## Incentives

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

### 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.
- Are the LED fixtures replacing 5-foot or 6-foot T12HO/T8 fluorescent fixtures?
- ▲ 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 [www.sce.com/NR/rdonlyres/11FED648-1AA8-4332-A4F9-74C1347D1CBA/0/100624\\_App\\_E\\_filterableV1\\_7.xls](http://www.sce.com/NR/rdonlyres/11FED648-1AA8-4332-A4F9-74C1347D1CBA/0/100624_App_E_filterableV1_7.xls).**

#### Express Solution

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

#### Customized Solution

SOLUTION CODE	SOLUTION DESCRIPTION FOR LED	INCENTIVE	
		\$/kWh	\$/kW <sup>1</sup>
	Interior LED lighting:		
LT-32756	Interior LED refrigeration case lighting	\$0.05	\$100
LT-29684	Other interior LED lighting	\$0.05	\$100

### HIGH EFFICIENCY EXIT SIGNS

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

▲ Indicates updated qualifying criteria

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



LED, CONTINUED

**Express Solution**

SOLUTION CODE	SOLUTION DESCRIPTION FOR LED	INCENTIVE	
		\$/unit of measure	
	High-efficiency LED exit sign:		
LT-25510	Incandescent lamp existing	\$27.00 / fixture	
LT-85327	Compact fluorescent lamp existing	\$15.00 / fixture	

**Customized Solution**

SOLUTION CODE	SOLUTION DESCRIPTION FOR LED	INCENTIVE	
		\$/kWh	\$/kW <sup>1</sup>
	Interior LED lighting:		
<b>LT-80367 NEW</b>	<b>LED exit sign</b>	<b>\$0.05</b>	<b>\$100</b>
LT-29684	Other interior LED lighting	\$0.05	\$100

**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.

**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 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

**Express Solution**

SOLUTION CODE	SOLUTION DESCRIPTION FOR LED	INCENTIVE	
		\$/unit of measure	
	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	

**Customized Solution**

SOLUTION CODE	SOLUTION DESCRIPTION FOR LED	INCENTIVE	
		\$/kWh	\$/kW <sup>1</sup>
	Interior LED lighting:		
LT-29684	Other interior LED lighting	\$0.05	\$100
	Exterior LED lighting:		
LT-46594	Exterior LED advertisement sign/smart sign	\$0.05	\$100
LT-39685	Other exterior LED lighting	\$0.05	\$100

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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 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.

#### 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	\$0.05	\$100
LT-29684	Other interior LED lighting	\$0.05	\$100
	Interior LED integral lamps:		
LT-12109	Interior LED integral lamps—Omnidirectional (A-lamps, etc)	\$0.05	\$100
LT-84635	Interior LED integral lamps—Decorative lamps	\$0.05	\$100
LT-56453	Interior LED integral lamps—Directional lamps (BR, ER, PAR, MR, etc)	\$0.05	\$100

### ▲ 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 <http://www.sce.com/business/ems/customized-solutions/tools-resources.htm>

#### 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)	\$0.05	\$100
LT-47463	Interior LED parking garage luminaires	\$0.05	\$100
LT-91217	Interior LED track or mono-point directional lighting fixtures	\$0.05	\$100
LT-58676	Interior LED recessed, surface and pendant-mounted downlights	\$0.05	\$100
LT-78694	Interior LED under-cabinet shelf-mounted task lighting	\$0.05	\$100
LT-29684	Other interior LED lighting	\$0.05	\$100

▲ Note: Solution codes LT-66004 Exterior LED traffic lights red, green or yellow, LT-40901 Exterior LED traffic lights walk/no walk, and LT-67502 Interior LED portable desk task light expired February 23, 2011.

▲ New technology category

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



LED, CONTINUED

**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)	\$0.05	\$100
LT-48371	Exterior LED street lighting	\$0.05	\$100
LT-37654	Exterior LED outdoor pole/arm-mounted area and roadway luminaires	\$0.05	\$100
LT-23267	Exterior LED outdoor pole/arm-mounted decorative luminaires	\$0.05	\$100
LT-96754	Exterior LED wall-mounted area luminaires	\$0.05	\$100
LT-79301	Exterior LED wall wash luminaires	\$0.05	\$100
LT-68791	Exterior LED bollards	\$0.05	\$100
LT-46594	Exterior LED advertisement sign/smart sign	\$0.05	\$100
LT-39685	Other exterior LED lighting	\$0.05	\$100

**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.

**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, T12 linear fluorescent, standard metal halide, or high-pressure sodium fixtures in interior installations? Existing pulse start metal halide installations do not qualify.
- If retrofitting an exterior fixture, is the existing lamp less than or equal to 100 watts?
- 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? 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.

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# Energy Efficiency

## Incentives

### COMPACT FLUORESCENT FIXTURES, CONTINUED

#### Express Solution

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	

#### Customized Solution

SOLUTION CODE	SOLUTION DESCRIPTION FOR COMPACT FLUORESCENT FIXTURES	INCENTIVE	
		\$/kWh	\$/kW <sup>1</sup>
	Interior compact fluorescent fixture lighting retrofit:		
LT-76865	Interior compact fluorescent fixture retrofits—(excluding screw-in CFL)	\$0.05	\$100
LT-67568	Other interior compact fluorescent fixture lighting	\$0.05	\$100
	Exterior compact fluorescent fixture lighting retrofit:		
LT-58654	Exterior compact fluorescent fixture retrofit—(excluding screw-in CFL)	\$0.05	\$100
LT-45634	Other exterior compact fluorescent fixture lighting	\$0.05	\$100

### SCREW-IN COMPACT FLUORESCENT REFLECTOR LAMPS

An ENERGY STAR<sup>®</sup> 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<sup>®</sup>-qualified? Visit [www.energystar.gov](http://www.energystar.gov) for a list of qualifying lamps.
- Is the screw-in compact fluorescent reflector lamp wattage between 14 and 28 watts?
- If the retrofit involves screw-in induction reflector lamps, can it be demonstrated that the lamp performance is equivalent to ENERGY STAR<sup>®</sup>?

#### 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	\$7.00 / lamp	

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### 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.

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

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

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

##### Express Solution

SOLUTION CODE	SOLUTION DESCRIPTION FOR COLD CATHODE	INCENTIVE
		\$/unit of measure
LT-45910	Cold cathode fluorescent lamp: 2–8 watts	\$4.00 / lamp

#### 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.

##### 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 lamp in a refrigerated case?
- 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?
- Is the cold cathode lamp rated for at least 80,000 average life hours?

##### Express Solution

SOLUTION CODE	SOLUTION DESCRIPTION FOR COLD CATHODE	INCENTIVE
		\$/unit of measure
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

### LIGHTING CONTROLS

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

#### LIGHTING CONTROLS

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 hardwired passive infrared and/or ultrasonic detectors being installed to control interior lighting fixtures?
- 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? Only one sensor per circuit is allowed. (Multiple switches controlling the same fixtures can only receive one sensor incentive.)
- 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?
- If applicable, do sensors meet the wattage-controlled requirements listed in the incentive table below?
- 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 ballast be used for the retrofit? Customers shall ensure that the appropriate ballast is in use for the installation.

*Note: Hotel or Motel guest rooms do not qualify for the sensor incentives offer below.*

##### Express Solution

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
<b>LT-74831 NEW*</b>	<b>5-foot LED low-temp reach-in display case traffic sensor controls</b>	<b>\$7.00 / door</b>

\* Also available under Refrigeration Solutions.



LIGHTING CONTROLS, CONTINUED

**Customized Solution**

SOLUTION CODE	SOLUTION DESCRIPTION FOR LIGHTING CONTROLS	INCENTIVE	
		\$/kWh	\$/kW <sup>1</sup>
LT-50567	Lighting controls—energy management system (EMS)	\$0.05	\$100
LT-43077	Lighting controls—occupancy sensors	\$0.05	\$100
LT-90853	Day lighting controls—EMS	\$0.05	\$100
LT-74751	Day lighting systems with dimmable ballast	\$0.05	\$100
<b>LT-90192 NEW</b>	<b>Lighting controls—aisle traffic sensor for refrigerated display cases</b>	<b>\$0.05</b>	<b>\$100</b>
LT-94134	Other lighting controls	\$0.05	\$100
<b>LT-32843 NEW</b>	<b>Dimming Ballasts—20% Tuning</b>	<b>\$0.05</b>	<b>\$100</b>
<b>LT-48272 NEW*</b>	<b>Dimming Ballasts—20% Tuning + Auto Demand Respons</b>	<b>\$0.05</b>	<b>\$100</b>
<b>LT-57958 NEW</b>	<b>Dimming Ballasts—20% Tuning + Occupancy Sensor</b>	<b>\$0.05</b>	<b>\$100</b>
<b>LT-60897 NEW*</b>	<b>Dimming Ballasts—20% Tuning + Occupancy Sensor + Auto Demand Response</b>	<b>\$0.05</b>	<b>\$100</b>
<b>LT-78223 NEW</b>	<b>Dimming Ballasts—20% Tuning + Occupancy Sensor + Daylight Harvesting with Side Lighting Photo Controls</b>	<b>\$0.05</b>	<b>\$100</b>
<b>LT-89432 NEW*</b>	<b>Dimming Ballasts—20% Tuning + Occupancy Sensor + Daylight Harvesting with Side Lighting Photo Controls + Auto Demand Response</b>	<b>\$0.05</b>	<b>\$100</b>

\* Solution is eligible for both Energy Efficiency and Demand Response incentives.

**PHOTOCELLS**

Exterior lights are turned on and off based on detection of exterior lighting levels (photocells).

**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 built-in or stand-alone photoelectric cells that switch outdoor lighting loads on at dusk and off at dawn?

**Express Solution**

SOLUTION CODE	SOLUTION DESCRIPTION FOR LIGHTING CONTROLS	INCENTIVE
		\$/unit of measure
LT-68108	Photocell	\$11.00 / photocell

**TIME CLOCKS**

Exterior lights are turned on and off based on time of day (time clocks).

**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.

Will time clocks control lighting equipment?

Do units feature a minimum three-hour battery back-up to avoid time loss during power outages?

For outdoor lighting without a photocell, will astronomical time clocks (where on-off time follows sunset and sunrise) be used?

**Express Solution**

SOLUTION CODE	SOLUTION DESCRIPTION FOR LIGHTING CONTROLS	INCENTIVE
		\$/unit of measure
LT-22809	Time clock	\$36.00 / time clock

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

# Energy Efficiency

## Incentives

### FOOD SERVICE

#### COOKING EQUIPMENT

New energy-efficient cooking and cooking process equipment that meet ENERGY STAR® or other energy-efficiency qualifications.

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, unless otherwise specified
- Used or rebuilt equipment is not eligible
- Customers must provide proof that the appliances meet the energy-efficiency specifications below

#### 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.

##### 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 exhaust hood and make-up air system? **Indicate make-up air unit (MAU) hp on invoice.**
- Will the control system be used in conjunction with variable-speed fan motor controls?
- Has the control system been pre-approved? Only pre-approved control systems will qualify for an incentive.

Application process: Project Installation Worksheet must be submitted with the Application. Worksheet available at [www.fishnick.com/saveenergy/rebates/](http://www.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	\$350.00 / hp
FS-23401	New hood	\$300.00 / hp

#### COMMERCIAL ELECTRIC GRIDDLES

Commercial electric griddle that is ENERGY STAR®-qualified.

##### 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 ENERGY STAR®-qualified?

##### Express Solution

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

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COOKING EQUIPMENT, CONTINUED

**COMMERCIAL ELECTRIC COMBINATION OVENS**

An electric combination oven with a cooking efficiency of at least 60% as tested in accordance with ASTM F 1639-05.

**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 commercial electric combination ovens have a heavy load cooking energy efficiency greater than or equal to 60%, as tested in accordance with ASTM F 1639-05?

**Express Solution**

SOLUTION CODE	SOLUTION DESCRIPTION FOR COOKING EQUIPMENT	INCENTIVE
		\$/unit of measure
	Commercial electric:	
FS-88004	Combination oven, cooking efficiency ≥ 60%	\$1,000.00 / unit

**COMMERCIAL ELECTRIC CONVECTION OVENS**

Commercial electric convection oven that is ENERGY STAR®-qualified.

**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 ENERGY STAR®-qualified?

**Express Solution**

SOLUTION CODE	SOLUTION DESCRIPTION FOR COOKING EQUIPMENT	INCENTIVE
		\$/unit of measure
	Commercial electric:	
FS-72300	Convection oven, ENERGY STAR® -qualified	\$350.00 / unit

**COMMERCIAL ELECTRIC FRYERS**

Commercial electric fryer that is ENERGY STAR®-qualified.

**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 ENERGY STAR®-qualified?

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, ENERGY STAR® -qualified	\$200.00 / vat

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# Energy Efficiency

## Incentives

COOKING EQUIPMENT, CONTINUED

### COMMERCIAL LARGE VAT ELECTRIC FRYERS

Commercial large vat electric fryers with a cooking efficiency rating of at least 80% utilizing ASTM standard F 2144.

#### 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 large vat commercial electric fryers have a demonstrated heavy load (french-fried potatoes) cooking energy-efficiency rating of greater than or equal to 80% utilizing ASTM Standard F 2144?

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-49213	Large vat fryer, cooking efficiency $\geq$ 80%	\$200.00 / vat

### COMMERCIAL ELECTRIC STEAM COOKER

Commercial electric steam cooker that is ENERGY STAR®-qualified.

#### 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 ENERGY STAR®-qualified?

#### Express Solution

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



## HOLDING CABINETS

An electric food holding cabinet that is fully insulated on all sides and has solid insulated doors. The cabinet must use equal or less than the maximum idle rate of 20 watts per cubic foot and comply with the ASTM Standard F 2140 test method.

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, unless otherwise specified
- Used or rebuilt equipment is not eligible
- Customers must provide proof that the appliances meet the energy-efficiency specifications below

### 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 insulated doors?
- Is the cabinet equal to or less than the maximum idle energy rate of 20 watts per cubic foot in accordance with the ASTM Standard F 2140 test method?

*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-93639	Three-quarter size	\$250.00 / unit
FS-31559	Half size	\$200.00 / unit

# Energy Efficiency

## Incentives

### 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, unless otherwise specified
- Used or rebuilt equipment is not eligible
- Customers must provide proof that the appliances meet the energy-efficiency specifications below

*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 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 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.*

### Express Solution

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

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### REACH-IN REFRIGERATOR OR FREEZER DOORS

Cover for 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.

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, unless otherwise specified
- Used or rebuilt equipment is not eligible
- Customers must provide proof that the appliances meet the energy-efficiency specifications below

### COMMERCIAL REFRIGERATORS OR FREEZERS

New energy-efficient packaged commercial reach-in solid-door refrigerators and freezers, and glass-door reach-in refrigerators meeting CEE Tier II energy-efficiency specifications.

#### 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 ENERGY STAR® Version 2.0-qualified?

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

Commercial Solid-door/Glass-door Refrigerators and Freezers

PRODUCT DESCRIPTION	DAILY ENERGY USE			
	0 < V < 15 cu ft Total volume	15 ≤ V < 30 cu ft Total volume	30 ≤ V < 50 cu ft Total volume	50 ≤ V cu ft Total volume
Solid-door refrigerators	≤ 0.089 V + 1.411 kWh/day	≤ 0.037 V + 2.200 kWh/day	≤ 0.056 V + 1.635 kWh/day	≤ 0.060 V + 1.416 kWh/day
Solid-door freezers	≤ 0.250 V + 1.250 kWh/day	≤ 0.400 V - 1.000 kWh/day	≤ 0.163 V + 6.125 kWh/day	≤ 0.158 V + 6.333 kWh/day
Glass-door refrigerators	≤ 0.118 V + 1.382 kWh/day	≤ 0.140 V + 1.050 kWh/day	≤ 0.088 V + 2.625 kWh/day	≤ 0.110 V + 1.500 kWh/day
Glass-door freezers	≤ 0.607 V + 0.893 kWh/day	≤ 0.733 V - 1.000 kWh/day	≤ 0.250 V + 13.500 kWh/day	≤ 0.450 V + 3.500 kWh/day

V = Internal volume in cubic feet (cu ft)

# Energy Efficiency

## Incentives

### REACH-IN REFRIGERATOR OR FREEZER DOORS, CONTINUED

#### 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	< 30 cu ft	\$75.00 / unit
FS-93044	< 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	< 30 cu ft	\$150.00 / unit
FS-86848	< 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	< 30 cu ft	\$100.00 / unit
FS-68882	< 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	< 30 cu ft	\$250.00 / unit
FS-58112	< 50 cu ft	\$500.00 / unit
FS-30794	≥ 50 cu ft	\$1,000.00 / unit

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## 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.

#### 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.

#### 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 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.

#### Express Solution

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

#### Customized Solution

SOLUTION CODE	SOLUTION DESCRIPTION FOR STRIP CURTAINS	INCENTIVE	
		\$/kWh	\$/kW <sup>1</sup>
	Strip curtains for walk-in boxes:		
RF-73722	Strip curtains for walk-in boxes—med temp	\$0.09	\$100
RF-26436	Strip curtains for walk-in boxes—low temp	\$0.09	\$100
RF-94321	Night curtains	\$0.09	\$100
RF-86746	Air curtains	\$0.09	\$100
RF-36876	Other refrigeration curtains	\$0.09	\$100

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

# Energy Efficiency

## Incentives

### 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.

#### 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 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?

##### Express Solution

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	

##### Customized Solution

SOLUTION CODE	SOLUTION DESCRIPTION FOR DOORS	INCENTIVE	
		\$/kWh	\$/kW'
RF-16294	High-speed cold storage doors	\$0.09	\$100
RF-28576	Rapid-close door for coolers	\$0.09	\$100
RF-89478	Rapid-close doors for freezers	\$0.09	\$100
RF-42400	Refrigerated case doors	\$0.09	\$100
RF-67581	Low-temperature reach-in door—anti-fog film	\$0.09	\$100
RF-57987	Other refrigeration doors	\$0.09	\$100

▲ Door gaskets are no longer eligible for incentives.

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



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

**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.

**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 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.

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

**Customized Solution**

SOLUTION CODE	SOLUTION DESCRIPTION FOR REFRIGERATION MOTORS	INCENTIVE	
		\$/kWh	\$/kW <sup>1</sup>
RF-20986	Walk-in ECMs	\$0.09	\$100
RF-16543	Display case ECMs	\$0.09	\$100
RF-54765	Other refrigeration motors	\$0.09	\$100

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# Energy Efficiency

## Incentives

**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.
- Does the film type cover have small, perforated holes to decrease moisture buildup? (This is recommended; however, it is not required.)
- Will the cover be applied for an average period of at least 6 hours per day?
- 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
- 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.

#### Express Solution

SOLUTION CODE	SOLUTION DESCRIPTION FOR DISPLAY CASES	INCENTIVE	
		\$/unit of measure	
	Night covers for open vertical and horizontal display cases:		
RF-25784	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>
RF-59786	Other refrigeration display cases	\$0.09	\$100

For complete terms and conditions, go to [www.sce.com/solutions](http://www.sce.com/solutions). Please refer to the “What’s New” section of the Online Application ([www.sceonlineapp.com](http://www.sceonlineapp.com)) for additions, deletions and other changes to 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.



DISPLAY CASES, CONTINUED

**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.

**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 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.
- Have the display cases been properly measured? New display cases are incentivized 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>
RF-45362	High-efficiency medium-temperature open display cases	\$0.09	\$100
<b>LT-90192 NEW*</b>	<b>Lighting controls—aisle traffic sensor for refrigerated display cases</b>	<b>\$0.05</b>	<b>\$100</b>
RF-59786	Other refrigeration display cases	\$0.09	\$100

\* Also available under Lighting Solutions.

**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 meeting the requirements of Incentive F

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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

#### 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>
RF-40976	Low-temperature high-efficiency reach-in display cases	\$0.09	\$100
<b>LT-90192 NEW*</b>	<b>Lighting controls—aisle traffic sensor for refrigerated display cases</b>	<b>\$0.05</b>	<b>\$100</b>
RF-59786	Other refrigeration display cases	\$0.09	\$100

\* Also available under Lighting Solutions.

### 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.

#### 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 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.

#### 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	
<b>LT-80693 NEW*</b>	<b>LED refrigerated display case lighting retrofit</b>	<b>\$50.00 / door</b>	
<b>LT-74831 NEW*</b>	<b>5-foot LED low-temp reach-in display case traffic sensor controls</b>	<b>\$7.00 / door</b>	

\* Also available under Lighting Solutions.

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## 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 nitrile rubber or equivalent with at least  $\frac{3}{4}$ " for medium-temperature and 1" for low-temperature systems. The suction line must be no more than  $1\frac{5}{8}$ " 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  $1\frac{5}{8}$ " inches or less on existing equipment only?
- If insulating medium-temperature lines, will  $\frac{3}{4}$ " of flexible closed-cell nitrile rubber or equivalent insulation be used?
- If insulating low-temperature lines, will 1" of flexible closed-cell nitrile rubber or equivalent insulation be used?
- 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-88033	Insulate bare suction pipes	\$0.09	\$100

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

# Energy Efficiency

## Incentives

INSULATION, CONTINUED

### 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.

#### 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.

- 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
- Does the new wine tank insulation have an insulation value greater than or equal to R-12?
- Is the new wine tank insulation being added to an existing refrigerated wine tank with no insulation?
- 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.

#### Express Solution

SOLUTION CODE	SOLUTION DESCRIPTION FOR INSULATION	INCENTIVE	
		\$/unit of measure	
	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	

#### Customized Solution

SOLUTION CODE	SOLUTION DESCRIPTION FOR INSULATION	INCENTIVE	
		\$/kWh	\$/kW <sup>1</sup>
RF-79698	Insulating refrigeration lines	\$0.09	\$100
RF-20654	Insulating storage tanks	\$0.09	\$100
RF-38761	Other refrigeration insulation	\$0.09	\$100

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## 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	\$0.15	\$100
RF-90876	Oversized air cooled condenser	\$0.15	\$100
RF-89012	Other refrigeration condensers	\$0.15	\$100

## COMPRESSOR

An electro-mechanical 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	\$0.15	\$100
RF-75894	Compressor sequencing (industrial refrigeration)	\$0.15	\$100
RF-65700	Efficient refrigeration compressors	\$0.15	\$100
RF-57234	Other refrigeration compressors	\$0.15	\$100

## REFRIGERATION SYSTEMS

Other components or equipment that remove heat from an enclosed space or substance and eject it elsewhere, 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	\$0.09	\$100
RF-16859	Reduced load on refrigeration system (using cooling tower to partially offset load)	\$0.09	\$100
RF-28375	Single-stage system to two-stage refrigeration system conversion (industrial refrigeration)	\$0.09	\$100
RF-28505	Efficient refrigeration—operations	\$0.09	\$100
RF-68574	Repiping refrigeration whey-processing system	\$0.09	\$100
RF-37209	Other refrigeration systems	\$0.09	\$100

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# Energy Efficiency

## Incentives

### 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?
- 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

#### 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>
<b>RF-56398 NEW</b>	<b>Evaporative coil fan control (cycling)</b>	<b>\$0.09</b>	<b>\$100</b>
RF-67588	Other refrigeration controls	\$0.09	\$100

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REFRIGERATION CONTROLS, CONTINUED

**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.
- 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.*

**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>
RF-60982	Anti-sweat heater (ASH) controls	\$0.09	\$100
RF-67588	Other refrigeration controls	\$0.09	\$100

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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 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.

#### 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?
- 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.

#### 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)	\$0.09	\$100
RF-43954	Floating suction pressure controls	\$0.15	\$100
RF-12190	Floating head pressure controls	\$0.15	\$100
RF-28734	Subcooling refrigeration controls	\$0.09	\$100
RF-56398	Evaporator coil fan control (cycling)	\$0.09	\$100
RF-43876	Defrost controls	\$0.09	\$100
	Variable-frequency drives for:		
RF-87644	Evaporator coil fan—VFD	\$0.09	\$100
RF-94589	Screw compressor—VFD (industrial refrigeration)	\$0.15	\$100
<b>RF-79521 NEW</b>	<b>Refrigeration compressor controls</b>	<b>\$0.09</b>	<b>\$100</b>
RF-67588	Other refrigeration controls	\$0.09	\$100

▲ New technology category

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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.
- 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:  $SHGC = SC \times .87$
- 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>
BE-48901	Window film or glazing	\$0.09	\$100
BE-79685	Other window film applications	\$0.09	\$100

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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 window is 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>
BE-78594	Efficient windows	\$0.09	\$100
BE-85711	Other window applications	\$0.09	\$100

### 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	\$0.09	\$100
BE-38475	Other building envelope applications	\$0.09	\$100

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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 [www.ahridirectory.org](http://www.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

# 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?
- 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 =  $10.9 - (0.213 \times \text{capacity in Btu/hr}^1) \div 1,000$
  - PTHP Min EER =  $10.8 - (0.213 \times \text{capacity in Btu/hr}^1) \div 1,000$

*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

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## EVAPORATIVE COOLERS

An evaporative cooler is 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?
- Will retrofitted system not have “constant bleed” option?
- 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 (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>
	Indirect evaporative cooling		
AC-22324	Indirect evaporative cooling—single stage	\$0.15	\$100
AC-45968	Indirect evaporative cooling—dual stage	\$0.15	\$100
<b>AC-32882 NEW</b>	<b>Direct evaporative pre-cooler for condensing units</b>	<b>\$0.15</b>	<b>\$100</b>
AC-70772	Evaporative precoolers	\$0.15	\$100
AC-32890	Evaporative cooling unit	\$0.15	\$100
AC-56876	Other evaporative cooler applications	\$0.15	\$100

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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.

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

SOLUTION CODE	SOLUTION DESCRIPTION FOR ECONOMIZERS	INCENTIVE	
		\$/kWh	\$/kW <sup>1</sup>
	Economizer:		
AC-15142	Economizer—air side	\$0.09	\$100
AC-68473	Economizer—water side	\$0.09	\$100
AC-78487	Economized cooling using fluid coolers	\$0.09	\$100
AC-85643	Other economizer applications	\$0.09	\$100

### CHILLERS

A chiller is a machine 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	\$0.15	\$100
AC-70454	Chiller heat reclaim	\$0.15	\$100
AC-70609	Other chiller applications	\$0.15	\$100

### 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	\$0.09	\$100
AC-98675	Insulating—condenser water pipes	\$0.09	\$100
AC-89065	Insulating—refrigerant pipes	\$0.09	\$100
AC-40390	Insulating cool air ducts	\$0.09	\$100
AC-93948	Other HVAC insulation applications	\$0.09	\$100

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## COOLING TOWER

Cooling towers are heat removal devices 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	\$0.15	\$100
AC-10328	Other cooling tower applications	\$0.15	\$100

## 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	\$0.15	\$100
AC-18574	Frictionless compressor retrofit	\$0.15	\$100
AC-24531	Other HVAC compressors	\$0.15	\$100

## CONDENSER

A condenser is 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>
AC-95854	Replace air cooled condenser with evaporative condenser	\$0.15	\$100
AC-38534	Other HVAC condenser applications	\$0.15	\$100

# Energy Efficiency

## Incentives

### 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-50629	Cooling system tune-ups	\$0.09	\$100
AC-34251	Central plant consolidation	\$0.15	\$100
AC-46584	VRF (variable refrigerant volume) air conditioning system	\$0.15	\$100
AC-39548	Variable-speed chiller plant optimization (Hartman Loop)	\$0.15	\$100
<b>AC-68495 NEW</b>	<b>Tie into central plant</b>	<b>\$0.09</b>	<b>\$100</b>
<b>AC-93670 NEW</b>	<b>Thermal energy storage energy savings</b>	<b>\$0.09</b>	<b>\$100</b>
AC-59807	Other HVAC systems	\$0.15	\$100

### 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-FREQUENCY DRIVES (VFDs)

Variable-frequency drives replacing inlet guide vanes or bypass dampers on fans no larger than 100 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. If you answer "No" to any question in the Express Solution section, consider a Customized Solution.*

- Does the retrofit involve VFD installations on existing HVAC supply air fans? VFDs on cooling towers are not eligible for an incentive.
- Is the fan equal to or less than 100 hp?
- Will throttling devices such as inlet vanes or bypass dampers be removed or permanently disabled?
- Will there be a 3% impedance choke? (This is recommended; however, it is not required.)

*Note: VFDs on new HVAC units are not eligible.*

#### Express Solution

SOLUTION CODE	SOLUTION DESCRIPTION FOR HVAC CONTROLS	INCENTIVE
		\$/unit of measure
AC-97352	Variable-frequency drives for HVAC fans	\$80.00 / hp

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HVAC CONTROLS, CONTINUED

**Customized Solution**

SOLUTION CODE	SOLUTION DESCRIPTION FOR HVAC CONTROLS	INCENTIVE	
		\$/kWh	\$/kW <sup>1</sup>
AC-32976	Carbon monoxide (CO) sensors for parking garages	\$0.09	\$100
AC-96037	Ventilation thermostat controls	\$0.09	\$100
AC-45213	Programmable thermostat	\$0.09	\$100
AC-68796	HVAC—occupancy sensor thermostat	\$0.09	\$100
AC-75930	HVAC—energy management system (EMS)	\$0.09	\$100
AC-68030	Constant air volume to variable air volume conversions	\$0.15	\$100
AC-75342	Pneumatic to DDC controls	\$0.09	\$100
AC-87564	Hot and cold deck reset	\$0.09	\$100
AC-96957	Fan static pressure reset	\$0.09	\$100
AC-60598	Variable air volume for fumehoods	\$0.09	\$100
AC-59483	Automatic sash closer controls	\$0.09	\$100
	Chiller optimization controls		
AC-15987	Chilled water reset	\$0.09	\$100
AC-25431	Condenser water reset	\$0.09	\$100
AC-32109	Improved chiller sequencing	\$0.09	\$100
	Variable-speed drives for:		
AC-43210	Chiller compressor—VFD	\$0.15	\$100
AC-78722	Ventilation fan—VFD	\$0.09	\$100
AC-54069	Condenser fan—VFD	\$0.09	\$100
AC-65847	Cooling tower—VFD	\$0.09	\$100
AC-50398	Chiller water pump motor—VFD	\$0.09	\$100
AC-69858	Hot water pump motor—VFD	\$0.09	\$100
AC-74984	Condenser water pump motor—VFD	\$0.09	\$100
AC-19384	Kitchen exhaust fan—VFD	\$0.09	\$100
AC-84945	Parking garage exhaust fan—VFD	\$0.09	\$100
<b>AC-79531 NEW</b>	<b>HVAC compressor controls</b>	<b>\$0.09</b>	<b>\$100</b>
<b>AC-50654 NEW</b>	<b>Carbon dioxide (CO<sub>2</sub>) demand control ventilation</b>	<b>\$0.09</b>	<b>\$100</b>
AC-74231	Other HVAC controls	\$0.09	\$100

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# Energy Efficiency

## Incentives

### OFFICE EQUIPMENT

#### COPIER

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

#### HIGH-EFFICIENCY COPIER

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

##### 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.

- 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

##### Express Solution

SOLUTION CODE	SOLUTION DESCRIPTION FOR COPIER	INCENTIVE	
		\$/unit of measure	
0E-10404	High-efficiency copier	\$100.00 / unit	

#### 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>
0E-71521	Data center server virtualization	\$0.09	\$100
0E-85746	Data center robot	\$0.09	\$100
0E-96858	Thin client	\$0.09	\$100
0E-19042	Digital data storage consolidation	\$0.09	\$100
0E-29712	Other computer technology applications	\$0.09	\$100

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## 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 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?

#### Express Solution

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

## 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? 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)

#### 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	Air flow management	\$0.09	\$100
OE-49102	Other office equipment technology controls	\$0.09	\$100

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# Energy Efficiency

## Incentives

### MOTORS

#### PREMIUM EFFICIENCY MOTORS

The International Electrotechnical Commission (IEC) recently passed standard IEC 60034-30 (2008), which defines energy efficiency classes for single-speed, three-phase, and 50 Hz and 60 Hz induction motors. The standard is part of an effort to unify motor testing standards, efficiency requirements, and product labeling requirements so that motor purchasers worldwide have the ability to easily recognize premium-efficiency products.

#### 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 motors new installation or being replaced for commercial, industrial, and/or agricultural applications?
- Do the motors meet the minimum efficiency requirements for an Express Solution incentive as listed in the table on the following page? Express Solution motor requirements are based on NEMA premium efficiency standards for nominal full load efficiencies, published by the Consortium for Energy Efficiency (CEE).
- Are the motors classified as either three-phase induction motors of open drip-proof (ODP) or totally enclosed fan-cooled (TEFC)? These motors are also known as "open" and "closed" motors, respectively.
- Are the motors general purpose, NEMA Design A and B qualifying motors (TEFC & ODP) ranging in size from 1 hp to 200 hp? NEMA Design A and B motors are general purpose motors (T-frame, single-speed, foot-mounted, continuous-rated, polyphase squirrel cage induction motors, and have open and closed enclosures). NEMA Design C and D are polyphase induction motors that are considered to be special-purpose motors and are not eligible for incentives.
- Does the nominal full load efficiency of the new motor meet or exceed the qualifying efficiency level for that class enclosure type of motor?
- Can the manufacturer's specification sheet be provided for the motor?

*Note: Brand and model of motor must be provided on invoice or supporting documentation. Copy of the manufacturer's specification sheet to be provided with the Incentives Application.*



PREMIUM EFFICIENCY MOTORS, CONTINUED

CONSORTIUM FOR ENERGY EFFICIENCY (CEE) MINIMUM NOMINAL EFFICIENCY STANDARDS

MOTOR SIZE HP	OPEN DRIP-PROOF			TOTALLY ENCLOSED FAN-COOLED		
	3,600 RPM	1,800 RPM	1,200 RPM	3,600 RPM	1,800 RPM	1,200 RPM
1	0.77	0.855	0.825	0.77	0.855	0.825
1.5	0.84	0.865	0.865	0.84	0.865	0.875
2	0.855	0.865	0.875	0.855	0.865	0.885
3	0.855	0.895	0.885	0.865	0.895	0.895
5	0.865	0.895	0.895	0.885	0.895	0.895
7.5	0.885	0.91	0.902	0.895	0.917	0.91
10	0.895	0.917	0.917	0.902	0.917	0.91
15	0.902	0.93	0.917	0.91	0.924	0.917
20	0.91	0.93	0.924	0.91	0.93	0.917
25	0.917	0.936	0.93	0.917	0.936	0.93
30	0.917	0.941	0.936	0.917	0.936	0.93
40	0.924	0.941	0.941	0.924	0.941	0.941
50	0.93	0.945	0.941	0.93	0.945	0.941
60	0.936	0.95	0.945	0.936	0.95	0.945
75	0.936	0.95	0.945	0.936	0.954	0.945
100	0.936	0.954	0.95	0.941	0.954	0.95
125	0.941	0.954	0.95	0.95	0.954	0.95
150	0.941	0.958	0.954	0.95	0.958	0.958
200	0.95	0.958	0.954	0.954	0.962	0.958

**NEMA Design A**

- Maximum 5% slip
- High to medium starting current
- Normal locked rotor torque
- Normal breakdown torque
- Suited for a broad variety of applications—as fans and pumps

**NEMA Design B**

- Maximum 5% slip
- Low starting current
- High locked rotor torque
- Normal breakdown torque
- Suited for a broad variety of applications, normal starting torque—common in HVAC application with fans, blowers and pumps

**Types of Pump Applications**

- Irrigation booster—centrifugal or turbine pump
- Irrigation well—turbine pump
- Municipal water booster pump—turbine pump
- Municipal water booster pump—centrifugal pump
- Municipal well pump—turbine pump
- Commercial water circulating pumps—cooling towers, chilled water systems
- Industrial water circulating pumps—oil extraction, cooling towers, chilled water systems

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# Energy Efficiency

## Incentives

### PREMIUM EFFICIENCY MOTORS, CONTINUED

#### Express Solution

SOLUTION CODE	SOLUTION DESCRIPTION FOR PREMIUM EFFICIENCY MOTORS	INCENTIVE \$/unit of measure
	1 hp – 2 hp	
MT-46587	HVAC system	\$35.00 / motor
MT-71092	Process	\$35.00 / motor
MT-35049	Pumping	\$35.00 / motor
MT-63864	Refrigeration	\$35.00 / motor
	3 hp	
MT-19432	HVAC system	\$40.00 / motor
MT-36004	Process	\$40.00 / motor
MT-27342	Pumping	\$40.00 / motor
MT-17766	Refrigeration	\$40.00 / motor
	5 hp	
MT-79876	HVAC system	\$50.00 / motor
MT-50192	Process	\$50.00 / motor
MT-68780	Pumping	\$50.00 / motor
MT-47876	Refrigeration	\$50.00 / motor
	7.5 hp	
MT-90904	HVAC system	\$60.00 / motor
MT-12458	Process	\$60.00 / motor
MT-32546	Pumping	\$60.00 / motor
MT-27773	Refrigeration	\$60.00 / motor
	10 hp	
MT-87659	HVAC system	\$70.00 / motor
MT-75677	Process	\$70.00 / motor
MT-42109	Pumping	\$70.00 / motor
MT-55662	Refrigeration	\$70.00 / motor
	15 hp	
MT-91092	HVAC system	\$80.00 / motor
MT-63001	Process	\$80.00 / motor
MT-34002	Pumping	\$80.00 / motor
MT-10044	Refrigeration	\$80.00 / motor
	20 hp	
MT-21218	HVAC system	\$90.00 / motor
MT-80213	Process	\$90.00 / motor
MT-40567	Pumping	\$90.00 / motor
MT-52189	Refrigeration	\$90.00 / motor

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PREMIUM EFFICIENCY MOTORS, CONTINUED

**Express Solution**

SOLUTION CODE	SOLUTION DESCRIPTION FOR PREMIUM EFFICIENCY MOTORS	INCENTIVE
		\$/unit of measure
	25 hp	
MT-68833	HVAC system	\$135.00 / motor
MT-36932	Process	\$135.00 / motor
MT-71772	Pumping	\$135.00 / motor
MT-10293	Refrigeration	\$135.00 / motor
	30 hp	
MT-40912	HVAC system	\$230.00 / motor
MT-29845	Process	\$230.00 / motor
MT-95214	Pumping	\$230.00 / motor
MT-87960	Refrigeration	\$230.00 / motor
	40 hp	
MT-53987	HVAC system	\$300.00 / motor
MT-70394	Process	\$300.00 / motor
MT-65748	Pumping	\$300.00 / motor
MT-32415	Refrigeration	\$300.00 / motor
	50 hp	
MT-17695	HVAC system	\$320.00 / motor
MT-27390	Process	\$320.00 / motor
MT-43565	Pumping	\$320.00 / motor
MT-95746	Refrigeration	\$320.00 / motor
	60 hp	
MT-83928	HVAC system	\$355.00 / motor
MT-78686	Process	\$355.00 / motor
MT-34851	Pumping	\$355.00 / motor
MT-14839	Refrigeration	\$355.00 / motor
	75 hp	
MT-20056	HVAC system	\$540.00 / motor
MT-69080	Process	\$540.00 / motor
MT-42536	Pumping	\$540.00 / motor
MT-93524	Refrigeration	\$540.00 / motor
	100 hp	
MT-10809	HVAC system	\$720.00 / motor
MT-85931	Process	\$720.00 / motor
MT-32488	Pumping	\$720.00 / motor
MT-56466	Refrigeration	\$720.00 / motor

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# Energy Efficiency

## Incentives

### PREMIUM EFFICIENCY MOTORS, CONTINUED

#### Express Solution

SOLUTION CODE	SOLUTION DESCRIPTION FOR PREMIUM EFFICIENCY MOTORS	INCENTIVE	
		\$/unit of measure	
	125 hp		
MT-27869	HVAC system	\$945.00 / motor	
MT-75900	Process	\$945.00 / motor	
MT-15938	Pumping	\$945.00 / motor	
MT-62321	Refrigeration	\$945.00 / motor	
	150 hp – 200 hp		
MT-45365	HVAC system	\$1,260.00 / motor	
MT-36332	Process	\$1,260.00 / motor	
MT-87070	Pumping	\$1,260.00 / motor	
MT-18133	Refrigeration	\$1,260.00 / motor	

#### Customized Solution

SOLUTION CODE	SOLUTION DESCRIPTION FOR PREMIUM EFFICIENCY MOTORS	INCENTIVE	
		\$/kWh	\$/kW <sup>1</sup>
MT-54002	All motors less than 200 hp	\$0.09	\$100
MT-80691	Motors greater than 200 hp	\$0.09	\$100
MT-50193	New or added motor load	\$0.09	\$100
MT-65483	Motor generator set replacements	\$0.09	\$100
<b>MT-50941 NEW</b>	<b>Constant speed variable load motor controller</b>	<b>\$0.09</b>	<b>\$100</b>
<b>MT-28473 NEW</b>	<b>Motor cycling controls</b>	<b>\$0.09</b>	<b>\$100</b>

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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. 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.
- 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.
- 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.
- 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	\$0.09	\$100
PM-35263	Condenser water pump retrofit	\$0.09	\$100
PM-59487	Heating hot water pumps	\$0.09	\$100
<b>PM-50902 NEW</b>	<b>Industrial pump retrofit</b>	<b>\$0.09</b>	<b>\$100</b>
PM-34265	Other pumping applications	\$0.09	\$100

### PUMPING SYSTEM OPTIMIZATION

The process of modifying a pumping system to make some aspect 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 PUMPING SYSTEM OPTIMIZATION	INCENTIVE	
		\$/kWh	\$/kW <sup>1</sup>
	Pump system optimization:		
PM-11099	Chilled water pump optimization flow configuration	\$0.09	\$100
PM-46398	Condenser water pump optimization flow configuration	\$0.09	\$100
	Pump system design upgrade:		
PM-58473	Chilled water pump constant flow to variable-flow conversion	\$0.09	\$100
PM-69548	Condenser water pump constant flow to variable-flow conversion	\$0.09	\$100
PM-90843	Vacuum pumping systems	\$0.09	\$100
PM-45201	Agricultural pump system overhaul	\$0.09	\$100
PM-10021	Industrial system overhaul	\$0.09	\$100
PM-28564	Clean room	\$0.09	\$100
PM-42142	SCADA system	\$0.09	\$100
PM-29854	High-efficiency pressure-washing system	\$0.09	\$100
PM-39486	Tape drip irrigation system	\$0.09	\$100
<b>PM-29644 NEW</b>	<b>Optimize fluid flow system</b>	<b>\$0.09</b>	<b>\$100</b>
<b>PM-18434 NEW</b>	<b>High-efficiency transformer</b>	<b>\$0.09</b>	<b>\$100</b>
PM-54029	Other pumping systems	\$0.09	\$100

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## 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	\$0.09	\$100
PM-70932	Pump off controllers for oil wells	\$0.09	\$100
PM-28467	Water shutoff controls	\$0.09	\$100
PM-93090	Fan controls	\$0.09	\$100
PM-89013	Pressure regulating float valves on stand pipes	\$0.09	\$100
	Variable-speed drives for:		
PM-93654	Milk transfer pump—VSD	\$0.09	\$100
PM-54502	Vacuum pumps—VSD	\$0.09	\$100
PM-14041	Milking vacuum pump—VSD	\$0.09	\$100
PM-32978	Well pump—VSD	\$0.09	\$100
<b>PM-21834 NEW</b>	<b>Nonresidential pool pump—VSD</b>	<b>\$0.09</b>	<b>\$100</b>
<b>PM-98434 NEW</b>	<b>Wastewater pump—VSD</b>	<b>\$0.09</b>	<b>\$100</b>
<b>PM-35845 NEW</b>	<b>Fluid pump—VFD</b>	<b>\$0.09</b>	<b>\$100</b>
PM-98123	Other pumping controls	\$0.09	\$100

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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 <sup>1</sup>
PR-48786	36" EE high-volume low-speed exhaust or circulation fans—NEW and RETROFIT	\$0.09	\$100
PR-21210	50"–56" EE high-volume low-speed exhaust or circulation fans—NEW and RETROFIT	\$0.09	\$100
PR-87855	57"–60" EE high-volume low-speed exhaust or circulation fans—NEW and RETROFIT	\$0.09	\$100
PR-48391	20"–26" EE high-volume low-speed exhaust or circulation fans—NEW	\$0.09	\$100
PR-11217	48" EE high-volume low-speed exhaust or circulation fans—NEW	\$0.09	\$100
PR-78693	Other fan applications	\$0.09	\$100

#### COMPRESSED AIR

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

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

SOLUTION CODE	SOLUTION DESCRIPTION FOR COMPRESSED AIR	INCENTIVE	
		\$/kWh	\$/kW <sup>1</sup>
PR-32303	Air compressor retrofit	\$0.09	\$100
PR-81093	Air compressor consolidation	\$0.09	\$100
PR-90394	Increased storage for air compressor (receiver tank)	\$0.09	\$100
PR-25874	Other compressed air applications	\$0.09	\$100

#### ▲ 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>
<b>PR-71632 NEW</b>	<b>Phase change retrofit</b>	<b>\$0.09</b>	<b>\$100</b>
<b>PR-87504 NEW</b>	<b>Air compressor no-loss drain valves</b>	<b>\$0.09</b>	<b>\$100</b>

▲ Indicates updated qualifying criteria

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## 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	\$0.09	\$100
PR-48473	Cycling dryer	\$0.09	\$100
PR-59686	Desiccant dryer	\$0.09	\$100
PR-49439	Drying (UV/IR)	\$0.09	\$100
PR-34212	Heat pumps for drying	\$0.09	\$100
<b>PR-10653 NEW</b>	<b>Vertical roller feed dryer for air compressors</b>	<b>\$0.09</b>	<b>\$100</b>
PR-68573	Other drying applications	\$0.09	\$100

## CHILLER

A chiller is a machine 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	\$0.09	\$100
PR-83948	Other process chiller applications	\$0.09	\$100

## HEAT EXCHANGER

A heat exchanger is 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	\$0.09	\$100
PR-17498	Other heat exchanger applications	\$0.09	\$100

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

# Energy Efficiency

## Incentives

**PROCESS SYSTEM OPTIMIZATION** The process of modifying the mechanical or chemical operations of a system to make some aspect of it more efficient while not reducing the baseline production output.

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

SOLUTION CODE	SOLUTION DESCRIPTION FOR PROCESS SYSTEM OPTIMIZATION	INCENTIVE	
		\$/kWh	\$/kW <sup>1</sup>
PR-26438	System optimization for fan	\$0.09	\$100
PR-38572	System optimization for compressed air	\$0.09	\$100
PR-60663	Optimize drying process	\$0.09	\$100
PR-85475	Reduce process chiller cooling load	\$0.09	\$100
PR-22866	Air conveying systems	\$0.09	\$100
PR-90809	High-consistency forming	\$0.09	\$100
PR-49586	Wastewater treatment—fine bubble aeration	\$0.09	\$100
PR-58902	Replace V-belts	\$0.09	\$100
PR-59860	Other process systems	\$0.09	\$100

**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	\$0.09	\$100
PR-43054	Direct-drive extruders	\$0.09	\$100
PR-85031	Intelligent extruder (DOE)	\$0.09	\$100
PR-69584	Other extruder applications	\$0.09	\$100

**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	\$0.09	\$100
PR-78632	Injection molding—new or added load	\$0.09	\$100
PR-87594	Hybrid injection molding machines (hydro-electric)	\$0.09	\$100
PR-28374	All-electric injection molder	\$0.09	\$100
PR-94858	Injection molding—multi-pump	\$0.09	\$100
PR-14374	Pulse cooling for injection molders	\$0.09	\$100
PR-28475	Other injection molding machine applications	\$0.09	\$100

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## 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	\$0.09	\$100
PR-48327	Other process insulation applications	\$0.09	\$100

## 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	\$0.09	\$100
PR-58374	Other grinding machine applications	\$0.09	\$100

## 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	\$0.09	\$100
PR-69848	Other melting machine applications	\$0.09	\$100

## OVEN

An oven is 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	\$0.09	\$100
PR-71928	Other process oven machine applications	\$0.09	\$100

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# Energy Efficiency

## Incentives

### DESALTER

A desalter is 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	\$0.09	\$100
PR-89320	Other desalting machine applications	\$0.09	\$100

### ▲ 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.

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

SOLUTION CODE	SOLUTION DESCRIPTION FOR DESALTER	INCENTIVE	
		\$/kWh	\$/kW <sup>1</sup>
<b>PR-38532 NEW</b>	<b>Install high efficiency industrial blower</b>	<b>\$0.09</b>	<b>\$100</b>

### PROCESS CONTROLS

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

**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	\$0.09	\$100
PR-93841	Air compressor—VFD	\$0.09	\$100
PR-10192	Wastewater treatment—blower VFD	\$0.09	\$100
PR-20847	Process motor—VFD	\$0.09	\$100
PR-30694	Boiler fans—VFD	\$0.09	\$100
<b>PR-90435 NEW</b>	<b>Blower—VFD</b>	<b>\$0.09</b>	<b>\$100</b>
<b>PR-60824 NEW</b>	<b>Cooling tower—VFD</b>	<b>\$0.09</b>	<b>\$100</b>
<b>PR-48832 NEW</b>	<b>Autoclave fans—VFD</b>	<b>\$0.09</b>	<b>\$100</b>
PR-19283	Air compressor intermediate flow controller	\$0.09	\$100
PR-17464	Wastewater controls	\$0.09	\$100
PR-93874	Process chiller controls	\$0.09	\$100
<b>PR-32856 NEW</b>	<b>Air compressor system control</b>	<b>\$0.09</b>	<b>\$100</b>
<b>PR-98124 NEW</b>	<b>Install bypass controls for a metal cleaning system</b>	<b>\$0.09</b>	<b>\$100</b>
<b>PR-89417 NEW</b>	<b>Collection control system</b>	<b>\$0.09</b>	<b>\$100</b>
<b>PR-89584 NEW</b>	<b>Molding machine controls</b>	<b>\$0.09</b>	<b>\$100</b>
<b>PR-45439 NEW</b>	<b>Compressor air dryer control</b>	<b>\$0.09</b>	<b>\$100</b>
<b>PR-69972 NEW</b>	<b>Process laser control</b>	<b>\$0.09</b>	<b>\$100</b>
PR-40679	Other process control applications	\$0.09	\$100

▲ Indicates updated qualifying criteria

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## STORAGE TANKS

A storage tank is 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	\$0.09	\$100
PR-20948	Other process storage tank application	\$0.09	\$100

## ▲ 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>
<b>PR-69844 NEW</b>	<b>Efficient battery charger</b>	<b>\$0.09</b>	<b>\$100</b>

## ▲ 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>
<b>PR-64722 NEW</b>	<b>Efficient lamination machine</b>	<b>\$0.09</b>	<b>\$100</b>
<b>PR-78186 NEW</b>	<b>Other laminator applications</b>	<b>\$0.09</b>	<b>\$100</b>

## WET CLEANING

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	\$0.09	\$100
PR-60594	Other wet cleaning applications	\$0.09	\$100

▲ Indicates updated qualifying criteria

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# Demand Response

## Options

# Enroll

SCE offers a full suite of Demand Response programs that can help reduce your business's energy costs by managing your energy consumption when called upon by SCE.

Listed below are the SCE Demand Response programs you can choose from that offer rate discounts, incentive payments, and bill credits. Each program lists a series of considerations that will help guide you to the DR program that best fits your facility. Visit [www.sce.com/drp](http://www.sce.com/drp) for more detailed information.

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

A voluntary bidding program that offers bill credits for reducing power when a DBP event is called, with a day-ahead notification. (There are no penalties on this program.)

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

- You will need to reduce at least 30 kW of electrical demand for two or more consecutive hours weekdays between noon and 8 pm.
- You will need Internet access in order to place your bid.
- Some customers find the Demand Bidding Program to be a good way to get started in DR.

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### **CRITICAL PEAK PRICING (CPP)**

The CPP rate is available to commercial and industrial customers and provides energy or demand credits (depending on your base rate) during the summer months. When electricity demand and/or prices climb, SCE will activate CPP "events," during which your energy charges will rise significantly. However, if you can reduce or reschedule your usage to lower-demand times of the day during these events, the CPP rate may be a way to help lower your 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 during the summer, up to 15 times a year, but no less than nine times.
- You receive bill protection for the first 12 consecutive months on a CPP rate — this ensures that the total amount you pay on CPP during your first year will not be more than the amount you would have paid on your base rate (TOU-GS-3 or TOU-8, whichever applies to you).
- You must be a bundled SCE customer (i.e., you must procure your electrical generation from SCE) to enroll at this rate.
- Some customers may find CPP a good way to maximize their incentives from Demand Response.

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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 a Demand Response Aggregator (DRA).

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

- You will need to consistently reduce electricity by an agreed-upon amount on a month-to-month basis from May 1 to October 31.
- Some customers with multiple facilities like the flexibility the Capacity Bidding Program offers to manage load reductions among their facilities.

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



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### **DEMAND RESPONSE CONTRACTS (DRC)**

Authorized third-party Demand Response Aggregators (DRAs) contract with SCE to provide their own specific DR programs to customers. When SCE calls a DRC event, DRAs are responsible for reducing electrical load on an aggregated basis, based on their agreement with SCE. Customers enter into individual arrangements with DRAs and are compensated by the DRA under the terms of their agreement.

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

- You will be in an aggregated group of customers under an approved SCE third-party vendor.
- You will need to consistently reduce power by an agreed-upon amount on a month-to-month basis.
- Some customers prefer the flexibility that a third-party aggregator may be able to offer.

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### **REAL TIME PRICING (RTP-2, PA-RTP)**

Real-time pricing rates are electrical rates with hourly varying energy costs and no time-related demand charges during the summer. These hourly energy costs can vary greatly, depending on the maximum daily temperature recorded at the specific Downtown Los Angeles site.

**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.
- Some customers that operate 24/7 find RTP-2 a good way to minimize their annual electric bill.
- You must be a bundled customer (i.e., you must procure your electrical generation from SCE) to enroll in this rate.

Customers whose monthly maximum demand is greater than 500 kW are eligible for RTP-2. Pumping and Agricultural Real Time Pricing (PA-RTP) is available for customers with 70% or more of their electrical usage being used for general agricultural purposes or for general water or sewerage pumping.

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### **SCHEDULED LOAD REDUCTION PROGRAM (SLRP)**

The Scheduled Load Reduction Program (SLRP) offers a bill credit to customers that reduce at least 15% (100 kW minimum) of their maximum electrical demand for each hour of a predetermined time period. The three predetermined time periods are: 8 am–12 noon, 12 noon–4 pm and 4 pm–8 pm. Customers will receive \$.10 for each kWh reduced compared to their customer-specific energy baseline.

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

- You should be able to regularly reduce your electrical load for four consecutive hours from June 1 to September 30.
- You must be willing to sign an agreement with SCE that specifies the days of the week and the amount of load you will reduce during the specific time periods.
- You must be a bundled SCE customer (i.e., you must procure your electrical generation from SCE) to enroll in this program.
- Customers that operate multiple shifts and have operational flexibility have shown interest in this program.

# Demand Response

## Options

# Maximize

### TECHNICAL ASSISTANCE AND TECHNOLOGY INCENTIVES

Once enrolled in a Demand Response Program, SCE wants to make it easy to participate and achieve the full benefits of the program you selected. Demand Response Technology Incentives reimburse you for the cost of installing qualifying equipment that makes participating in DR easier.

SCE offers two types of DR Technology Incentives:

#### **AUTOMATED DEMAND RESPONSE (AUTO-DR)**

An incentive program that provides reimbursement for the purchase and installation of electrical load reducing equipment. This equipment will be remotely activated (via Internet) upon receiving event or price signals from SCE. The reimbursement could be up to \$300 per kW of verified load reduction.

**To qualify for the Auto-DR Incentive Program, you must enroll and participate in one of the following DR Programs for a minimum of twelve months:**

- Capacity Bidding Program
- Critical Peak Pricing
- Demand Bidding Program
- Demand Response Contract
- Real Time Pricing

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

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#### **DR TECHNOLOGY INCENTIVE (TI)**

An incentive program that provides reimbursement for the purchase and installation of electrical load reducing equipment. The equipment is activated **by the customer** upon receiving event or price signals from SCE. The reimbursement could be up to \$125 per kW of verified load reduction.

**To qualify for the TI program, you must enroll and participate in one of the following DR Programs for a minimum of twelve months:**

- Capacity Bidding Program
- Critical Peak Pricing
- Demand Bidding Program
- Demand Response Contract
- Real Time Pricing
- Schedule Load Reduction Program

**FIND A COPY OF THE INCENTIVES APPLICATION  
ONLINE AT [WWW.SCE.COM/SOLUTIONS](http://WWW.SCE.COM/SOLUTIONS).**

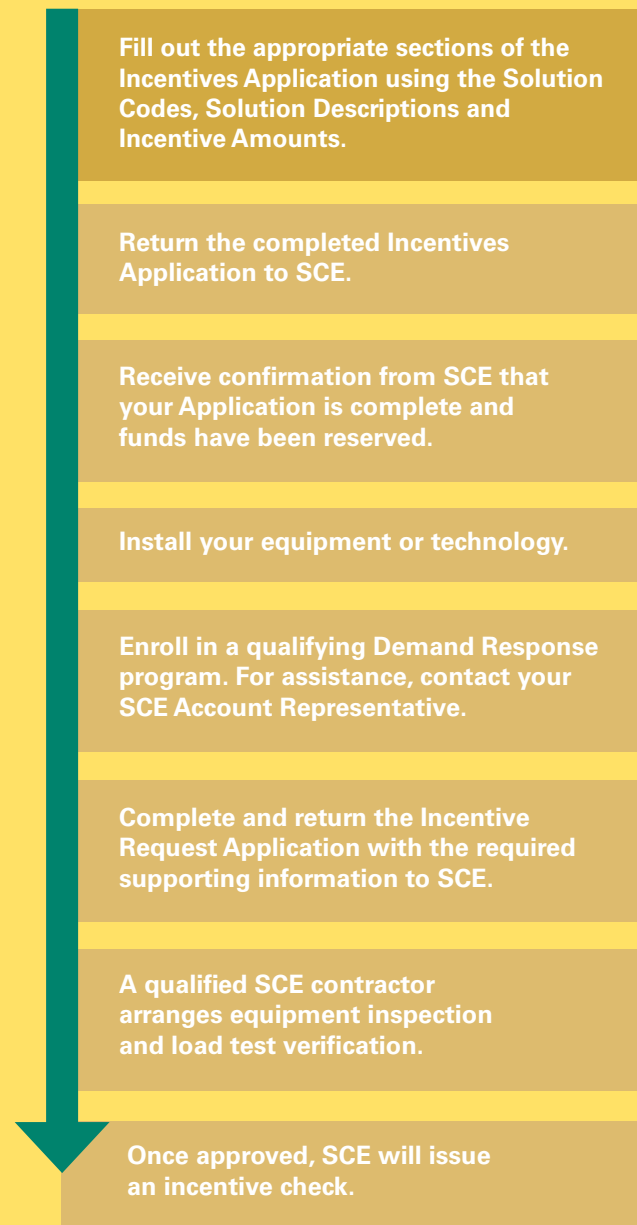


**When complete, submit application to:**  
Southern California Edison, Business Incentives  
P.O. Box 800, Rosemead, CA 91770-0800  
Questions? Call (800) 736-4777

# Apply

**To qualify for the DR Technology Incentive you need to satisfy the eligibility requirements located in the Appendix on page 83.**

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



# Demand Response

## Options

### TECHNOLOGY INCENTIVES AND STRATEGIES

Use the information in this section to complete the required Solution Code, Solution Description, and Strategy fields in Section 6 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

#### 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
<b>LT-48272 NEW*</b>	<b>Dimming Ballasts—20% Tuning + Auto Demand Response</b>	<b>Defined in project proposal</b>
<b>LT-60897 NEW*</b>	<b>Dimming Ballasts—20% Tuning + Occupancy Sensor + Auto Demand Response</b>	<b>Defined in project proposal</b>
<b>LT-89432 NEW*</b>	<b>Dimming Ballasts—20% Tuning + Occupancy Sensor + Daylight Harvesting with Side Lighting Photo Controls + Auto Demand Response</b>	<b>Defined in project proposal</b>

\* Solution is eligible for both Energy Efficiency and Demand Response incentives.

# Demand Response

## Demand Response Programs Dual Enrollment Options

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 Demand Response 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 <sup>1</sup>
Agricultural and Pumping Interruptible (AP-I)	• CPP • DBP • PA-RTP • SLRP
Base Interruptible Program (BIP) <sup>2</sup>	• CPP • DBP • RTP-2 • SLRP
Capacity Bidding Program (CBP) with “Day-Of” Option	• CPP • PA-RTP • RTP-2 • SLRP
Capacity Bidding Program (CBP) with “Day-Ahead” Option	Not Available
Critical Peak Pricing (CPP)	• AP-I • BIP • SDP • CBP with “Day-Of” Option • DRC (Constellation Energy “Day-Of” Option, EnerNOC “Day-Of”)
Demand Bidding Program (DBP)	• AP-I • BIP • SDP • DRC <sup>3</sup> (Constellation Energy “Day-Of” Option, EnerNOC “Day-Of”)
Demand Response Contract (DRC) • Constellation Energy “Day-Of” Option • EnerNOC “Day-Of”	• CPP • DBP <sup>3</sup> • PA-RTP • RTP-2
Demand Response Contract (DRC) • Constellation Energy “Day-Ahead” Option • EnergyConnect “Day-Ahead” • North America Power Partners “Day-Of”/“Day-Ahead” Options	Not Available
Pumping and Agricultural Real-Time Pricing (PA-RTP)	• AP-I • CBP with “Day-Of” Option • DRC (Constellation Energy “Day-Of” Option, EnerNOC “Day-Of”)
Real-Time Pricing (RTP-2)	• BIP • SDP • CBP with “Day-Of” Option • DRC (Constellation Energy “Day-Of” Option, EnerNOC “Day-Of”)
Scheduled Load Reduction Program (SLRP)	• AP-I • BIP • CBP with “Day-Of” Option • SDP
Summer Discount Plan (SDP)	• CPP • DBP • RTP-2 • SLRP

<sup>1</sup> In addition to being able to sign up for two Demand Response 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.

<sup>2</sup> Customers enrolled in BIP through an Aggregator are not eligible to participate in any other Demand Response programs.

<sup>3</sup> During DBP program event hours that overlap with program event hours in the Constellation Energy “Day-Of” or EnerNOC “Day-Of” DRC programs, SCE will credit dual participating customers for load reductions under the DBP program only. SCE will not count load reductions during overlapping hours toward EnerNOC’s or Constellation’s DRC program events. This may affect the payment customers receive from their Aggregator for overlapping event hours. Compensation for non-overlapping event hours will be credited or applied as appropriate under each program.

This information is meant to enhance your understanding of SCE’s Demand Response Programs. It does not replace pricing information contained in the CPUC-approved tariffs. Please refer to the tariffs, which can be viewed online at [www.sce.com](http://www.sce.com), for a complete list of terms and conditions of services.

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



# Still not sure if you have the potential to participate in Demand Response?

Let SCE help you locate DR potential with the **Technical Assistance (TA) Program**.

## **TECHNICAL ASSISTANCE**

Customers that qualify can receive a free Demand Response assessment of their facility to help identify DR potential and build a DR strategy to your Energy Action Plan. To request a free assessment or to find out more about the program, contact your SCE Account Representative.

# 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.

## 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.
- 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.

### 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.

## **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

### 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

The following rates apply to new applications received in 2010:

#### 2010 CUSTOMIZED INCENTIVE RATES

INCENTIVE CATEGORY	ANNUAL ENERGY SAVINGS INCENTIVE RATE (kWh)	PERMANENT PEAK DEMAND REDUCTION INCENTIVE RATE (kW)
Lighting	\$0.05 per kWh saved	\$100 / kW
Air Conditioning and Refrigeration (AC & R) I	\$0.15 per kWh saved	\$100 / kW
Air Conditioning and Refrigeration (AC & R) II	\$0.09 per kWh saved	\$100 / kW
Other Equipment	\$0.09 per kWh saved	\$100 / kW

Requirements for complete customized incentives for qualifying project measure(s), referred to as solution(s), can be found in the 2010 Customized Statewide 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 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 2010 INCENTIVE PAYMENT LIMITS

Refer to the Energy Management Solutions Incentives Application or [www.sce.com/Customized\\_Solutions](http://www.sce.com/Customized_Solutions) for 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 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 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.

## **TECHNICAL ASSISTANCE AND DR TECHNOLOGY INCENTIVES**

### **ELIGIBILITY**

The Technical Assistance and DR Technology Incentives program is open to all SCE business customers in SCE's service territory with registered demands of 200 kW or more. This registered demand of 200 kW can be one service account or be made up of multiple service accounts.

- The aggregated load of the participating service accounts from one SCE customer account must be 200 kW or more. Aggregated Technical Assistance and DR Technology Incentive service accounts must all be from one SCE customer (not multiple SCE customers).
- Each service account participating in Technical Assistance and DR Technology Incentive in any way (e.g., Technical Assistance Preliminary Assessment, Technical Audit, Technology Incentives) must have an interval meter.

### **TECHNICAL ASSISTANCE AND DR TECHNOLOGY INCENTIVES**

SCE's Technical Assistance and DR Technology Incentives Program enables you to participate in Demand Response programs by providing these offerings.

#### **Technical Assistance (TA)**

Qualified applicants can receive free demand response audits of their facilities. To request a free audit or find out more about the program, contact your SCE Account Representative or visit [www.sce.com/tati](http://www.sce.com/tati).

#### **DR Technology Incentives (TI)**

Customers can receive reimbursements of up to \$125 per kW of verified load reduction for the purchase and installation of technologies that reduce electricity use during peak periods. Customers will be required to make a minimum one-year commitment to a qualifying Demand Response program.

Customers can be eligible for up to \$300 per kW of verified load reduction<sup>1</sup> for the purchase and installation of technologies that automatically reduce electricity use during peak periods without manual intervention (Automated Demand Response, or "Auto-DR"). Incentives are not granted for manual improvements to existing equipment, customer behavior changes, or metering equipment.

To be eligible for a technology incentive from the TA&TI program, your facility (i) must be receiving bundled or direct access electric service from SCE, (ii) must have an interval electric 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 within the previous 18 months from the date the customer submits its application for a TA&TI technology incentive. Auto-DR technology incentives require a minimum one-year commitment to an Auto-DR supported Demand Response program.

▲ 1. Not to exceed **\$250,000** per facility without a separate agreement entered into in SCE's reasonable discretion between SCE and the eligible customer setting forth additional consideration for a higher incentive amount.

▲ Indicates updated qualifying criteria

# Appendix

## Incentive Eligibility Requirements

TECHNICAL ASSISTANCE AND  
DR TECHNOLOGY INCENTIVES,  
CONTINUED

### DR TECHNOLOGY INCENTIVE PAYMENT

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.<sup>1</sup> The demonstration is simple and consists of three steps:

1. Identify demand enabling equipment/device for which the customer is 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 quantification of the approved kW will be performed by the PVE using interval meter data for the facility and comparing this with an established baseline. Details of these calculations can be provided upon request. SCE retains sole discretion to determine the appropriate baseline values and dispatchable load reduction used to determine incentive payments. Once the kW is validated and approved, the incentive is processed.

#### Additionally...

With any TA&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 within the previous 18 months from the date you submit your application 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 TA&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. Lease or financing arrangements do not qualify under the 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, contravenes the requirements of the TA&TI program. I understand and acknowledge that this reservation does not guarantee future payment under the TA&TI program. While a reservation reserves funds for a project, payment of incentive is not guaranteed and is subject to post-installation performance verification.

For complete terms and conditions, go to [www.sce.com/solutions](http://www.sce.com/solutions).

1. SCE caps the Technology Incentive on the average peak demand reduction verified during the test by the Program Verification Engineer. The test consists of verifying that demand response equipment is installed and is able to reduce the kW stated.

# 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://www.eia.doe.gov/emeu/cbecs/building\\_types.html](http://www.eia.doe.gov/emeu/cbecs/building_types.html)

# Submit Your EMS Incentives Application Online

You can conveniently submit your Energy Management Solutions (EMS) Incentives Application and On-Bill Financing Application **online**.

**If you need technical support or immediate assistance in completing your online applications, please call 800-736-4777.**

## Option 1



**Submit online with electronic signature**

1. **Log** on to [www.sceonlineapp.com](http://www.sceonlineapp.com)
2. **Complete** the online applications.
3. **Sign** both applications *using the electronic signature process.*
4. **Attach** all required supporting documents and submit to SCE.

## Option 2



**Submit online with scanned signature**

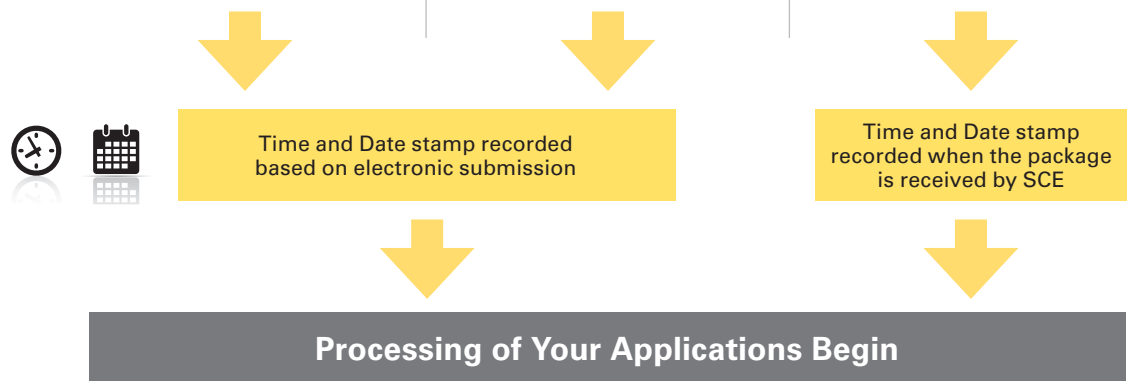
1. **Log** on to [www.sceonlineapp.com](http://www.sceonlineapp.com)
2. **Complete** the online applications.
3. **Secure all the required signatures** on both applications. *Upload scanned copies of signature pages for both applications.*
4. **Attach** all required supporting documents and submit to SCE.

## Alternative



**Submit paper applications manually**

1. **Log** on to [www.sce.com/onbill](http://www.sce.com/onbill), select "How To Apply." **Download** the EMS Incentives\* and On-Bill Financing Applications\*\* (EXCEL).
2. **Complete** both applications.
3. **Secure all the required signatures** on both applications.
4. **Attach** all required supporting documents and **send** the completed application package to SCE Business Incentives via:
  - Email: [businessincentives@sce.com](mailto:businessincentives@sce.com) or
  - Fax: 626-633-3243 or
  - Mail: SCE, P.O. Box 800, Rosemead, CA 91770-0800



\* If submitting an EMS Incentives Application and OBF Applications manually, 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 including estimated incentives, estimated eligible project costs and estimated kW and kWh savings required to complete and submit the OBF Applications.

\*\* If submitting a multiple site project and OBF Application manually, you will need to complete an OBF Application for each project site listed on the EMS Incentives Application.

Programs are funded by California utility customers and administered by Southern California Edison under the auspices of the California Public Utilities Commission. Programs are offered on a first-come, first-served basis and are effective until funding is expended or the program is discontinued by the California Public Utilities Commission. Programs may be modified or terminated without prior notice.



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