

Sixth Edition, April 2012

Solutions Directory

2010–2012

Providing Solutions

This **Solutions Directory** is a reference guide that contains the most complete and current list of eligible equipment (solutions) and qualification criteria for incentives available to customers through SCE's 2010–2012 Energy Efficiency Program cycle*. It also includes a summary of Demand Response Technology Incentives available for customers installing qualified equipment that enables load-shifting strategies. You can also use our **Energy Management Solutions Guides** (Guides). These include a listing of the typical solutions used by customers within select segments to help you create a comprehensive energy management plan and/or projects for yourself.

Comprehensive Energy Management includes Energy Efficiency and Demand Response programs. **Energy Efficiency** projects lead to permanent reductions in energy usage, usually by upgrading equipment and optimizing building system design. **Demand Response** programs offer simple ways to reduce your electrical bill by agreeing to temporarily reduce or shift your electrical consumption when requested by SCE.

For more complex project challenges involving multiple technologies, and/or installations at multiple project sites, ask your SCE Account Representatives about **SCE's consultative approach to project development**. Your SCE Account Representative, SCE Field Engineers, and Third Party Engineering firms will work with you and/or your in-house team to help scope your comprehensive energy management project. This collaboration helps ensure upfront agreement on operating cost, capital cost, energy savings and incentive estimates.

The **Online Application Tool** (the tool), found at www.sce/onlineapp.com, is another easy and reliable way for you or your Authorized Agent (designated contractor) to calculate energy savings and submit your Energy Management Solutions (EMS) Incentives Application for your project. The Tool will also help you satisfy two requirements for your Incentives Application. The Application Terms & Conditions includes a new certification requirement. Customers of Investor Owned Utilities submitting Incentive Applications are now required by the California Public Utilities Commission, California Energy Commission, and the Contractors State License Board to sign and certify that they will/have used a license contractor, where applicable, and will/have obtained all required permits for their energy management installation. Also, for projects using an Authorized Agent, a completed Authorized Participant Agreement must be submitted with every EMS Incentives Application (visit www.sce.com/contractor to learn more).

Both the **Solutions Directory** and the **Guides** reference documents are available online at www.sce.com/applicationandtools. Both are updated quarterly; however, the Solutions Directory will always contain the most complete and current list of equipment (solutions) and qualification criteria.

* 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 during the Program cycle or 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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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.¹

How do I qualify for an Express Solution?

Express Solutions eligibility requirements are located in the Appendix on page 78, and online at 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 to the 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 \$15,000 in incentives will require a post-installation inspection of the new equipment. Projects under \$15,000 will be subject to a random post-installation inspection.

¹ 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.

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.



We encourage you to use the Online Application Tool available on 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?

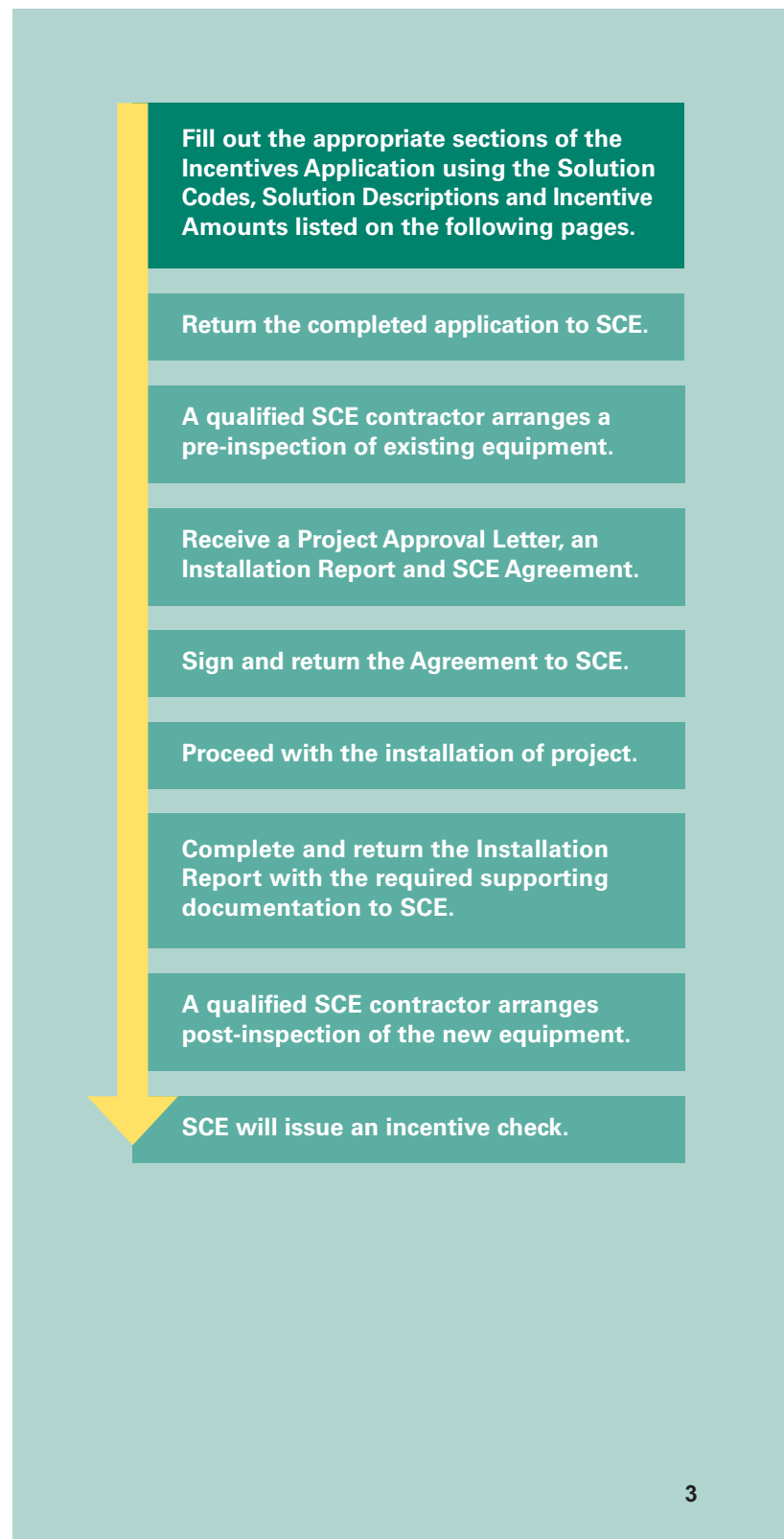
Customized Solutions eligibility requirements are located in the Appendix on page 82, and online at www.sce.com/Customized_Solutions.

How do I apply for a Customized Solution?

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

For most solutions, the Online Application Tool on 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.
- When applicable, lighting fixtures must meet existing case and proposed case requirement tables.
- New fixture or lamp wattage must be less than the wattage of lamp being replaced.

LINEAR FLUORESCENT

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

INTERIOR STANDARD T8 LAMP TO REDUCED WATTAGE T8 LAMP RETROFIT

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

Express Solution Qualifying Questions

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

Are the new T8 lamps CEE-approved? Approved lamps can be found at www.cee1.org/com/com-lt/RW-lamps-ballasts.xls on tab RW Lamp Update. Please refer to the specific tabs.

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

Note: This solution can be combined with the T8 interior lamp and electronic ballast solution if existing T12 lamps are replaced with reduced wattage T8 lamps. Please refer to the T8 or T5 Linear Fluorescent Lamps and Electronic Ballasts section on pages 6–7 for additional solutions. Also, installing reduced wattage lamps will result in lower light output.

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 ¹
	Interior linear fluorescent lighting:		
LT-51003	Interior linear fluorescent retrofits	\$0.05	\$100
LT-58431	Other interior linear fluorescent lighting	\$0.05	\$100

Note: Fluorescent T12 basecases for lighting solutions have been impacted by federal mandate and will expire June 30, 2012. For detailed information, please refer to the "What's New" section of the Online Application Tool website, www.sceonlineapp.com.

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

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





LINEAR FLUORESCENT, CONTINUED

INTERIOR STANDARD T8 LAMP AND BALLAST TO REDUCED WATTAGE T8 LAMP AND ELECTRONIC 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.
-  Are existing 4-foot 32-watt T8 fluorescent lamps and ballast(s) being replaced, one for one, with qualifying 4-foot 28-watt or 25-watt T8 fluorescent lamps and ballast(s)? Existing ballasts should be able to support 28 or 25 watt lamps. Please refer to the ballast manufacturer specification sheets.

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 ¹
	Interior linear fluorescent lighting:		
LT-51003	Interior linear fluorescent retrofits	\$0.05	\$100
LT-58431	Other interior linear fluorescent lighting	\$0.05	\$100

Note: Fluorescent T12 basecases for lighting solutions have been impacted by federal mandate and will expire June 30, 2012. For detailed information, please refer to the “What’s New” section of the Online Application Tool website, www.sceonlineapp.com.

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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

T8 OR T5 LINEAR FLUORESCENT LAMPS AND ELECTRONIC BALLASTS

Retrofit existing T12 lamp and ballast to a T8 or T5 lamp and ballast.

Express Solution Qualifying Questions

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

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

- Are T12 lamps and magnetic ballasts being replaced, one for one, with T8 or T5 lamps with electronic, high-frequency (greater than or equal to 20 kHz) ballasts?
- Do the proposed ballasts have a power factor of greater than or equal to 0.90?
- At full light output, do ballasts have a total harmonic distortion of less than or equal to 20%?
- Will programmed start/programmed rapid-start ballasts be used for T5 lamp installations?
- Will T5 lamps being replaced in low bay installations (under 15') provide indirect lighting only? Customers installing T5 lamps for direct lighting in low ceilings should consult a lighting professional to address the possibility of excessive glare.
- Do T8 and T5 replacement lamps and ballasts meet the color rendering index (CRI) and rated lamp life standards listed in the Lamp and Ballast Requirements table? Manufacturer's specification sheets for lamps and ballasts must be provided.

LAMP AND BALLAST REQUIREMENTS

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

INTERIOR T12 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 or equal to 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.

Note: Fluorescent T12 basecases for lighting solutions have been impacted by federal mandate and will expire June 30, 2012. For detailed information, please refer to the “What’s New” section of the Online Application Tool website, www.sceonlineapp.com.

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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) <i>expiring on June 30, 2012</i>	\$4.50 / lamp	
LT-12877	3-foot (T12 replacement only) <i>expiring on June 30, 2012</i>	\$5.50 / lamp	
LT-89585	4-foot high-performance lamps and ballasts (T12 replacement only) <i>expiring on June 30, 2012</i>	\$5.50 / lamp	
LT-58109	8-foot (T12 replacement only) <i>expiring on June 30, 2012</i>	\$9.00 / lamp	
	T5 interior lamp and electronic ballast:		
LT-61312	2-foot (T12 replacement only) <i>expiring on June 30, 2012</i>	\$4.50 / lamp	
LT-18642	3-foot (T12 replacement only) <i>expiring on June 30, 2012</i>	\$5.50 / lamp	
LT-94378	4-foot (T12 replacement only) <i>expiring on June 30, 2012</i>	\$5.50 / lamp	
LT-73491	8-foot (T12 replacement only) <i>expiring on June 30, 2012</i>	\$9.00 / lamp	
	T5 or T8 interior lamp:		
LT-34812	2-foot lamp removed (T12 replacement only) <i>expiring on June 30, 2012</i>	\$6.00 / lamp	
LT-48299	3-foot lamp removed (T12 replacement only) <i>expiring on June 30, 2012</i>	\$6.00 / lamp	
LT-77341	4-foot lamp removed (T12 replacement only) <i>expiring on June 30, 2012</i>	\$8.00 / lamp	
LT-27197	8-foot lamp removed (T12 replacement only) <i>expiring on June 30, 2012</i>	\$20.00 / lamp	

Customized Solution

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

Note: Fluorescent T12 basecases for lighting solutions have been impacted by federal mandate and will expire June 30, 2012. For detailed information, please refer to the "What's New" section of the Online Application Tool website, www.sceonlineapp.com.

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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 T5 high output (T5HO) lamp that uses 47, 49, 50 or 51 watts.

Express Solution Qualifying Questions

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

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

Express Solution

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

Customized Solution

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

Note: Fluorescent T12 basecases for lighting solutions have been impacted by federal mandate and will expire June 30, 2012. For detailed information, please refer to the "What's New" section of the Online Application Tool website, www.sceonlineapp.com.

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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 T5HO fixtures being installed?
- Will the new fixtures have a wattage equal to or less than the maximum wattage listed in the table below for each range of lamp wattage being replaced and have a lower wattage than the fixture being replaced?
- Will fixtures be equipped with linear fluorescent lamps and ballasts that meet the specifications defined in the T8 or T5 Linear Fluorescent Lamps with Electronic Ballasts category? All 4-foot T8 lamps and ballasts must be listed as High Performance (HP) T8 lamps and HP ballasts, and be listed at www.cee1.org/com/com-lt/com-lt-main.php3.
- Are new fixtures replacing, one for one, 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?
- 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 ¹
	Interior linear fluorescent lighting:		
LT-51003	Interior linear fluorescent retrofits	\$0.05	\$100
LT-58431	Other interior linear fluorescent lighting	\$0.05	\$100

Note: Fluorescent T12 basecases for lighting solutions have been impacted by federal mandate and will expire June 30, 2012. For detailed information, please refer to the “What’s New” section of the Online Application Tool website, www.sceonlineapp.com.

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Energy Efficiency

Incentives

LINEAR FLUORESCENT, CONTINUED

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

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

Express Solution Qualifying Questions

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

- Will all interior replacement fluorescent fixtures be hardwired? Exterior installations do not qualify.
- Are new fixtures equipped with electronic ballasts and manufacturer-integrated occupancy sensors?
- Are all installed lamps pin-based? All 4-foot T8 lamps and ballasts must be listed as High Performance (HP) T8 lamps and HP ballasts, and be listed at www.cee1.org/com/com-lt/com-lt-main.php3.
- Are the manufacturer-integrated sensors PIR and/or ultrasonic controlling individual fixtures? Fixtures must default to full light output if integrated sensors fail. Fixtures controlled by "manual on" overrides do not qualify.
- Do the fixtures operate at full light output during occupied periods?
- Do the fixtures operate at 35% or less of full wattage during unoccupied periods?

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 <i>expiring on June 30, 2012</i>	\$25.00 / fixture	
LT-10654	T12 linear fluorescent fixture existing, to on/off fluorescent fixture <i>expiring on June 30, 2012</i>	\$25.00 / fixture	

Customized Solution

SOLUTION CODE	SOLUTION DESCRIPTION FOR LINEAR FLUORESCENT	INCENTIVE	
		\$/kWh	\$/kW ¹
	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	\$0
LT-70908	Other exterior linear fluorescent lighting	\$0.05	\$0

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



PULSE-START OR CERAMIC METAL HALIDE

Contains a ceramic tube inside the lamp that heats a mercury-argon mixture, creating a bluish light that is close to daylight. 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 METAL HALIDE OR CERAMIC METAL HALIDE FIXTURES

New, hardwired pulse-start or ceramic metal halide fixtures (or retrofit kits) replacing, one for one, an existing, less efficient lighting source.

Express Solution Qualifying Questions

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

- Are complete new pulse-start or ceramic metal halide fixtures or retrofit kits being installed?
- Are new fixtures replacing, one for one, existing incandescent, mercury vapor, T12 linear fluorescent, T12/High Output fluorescent, T12/Very High Output fluorescent standard probe-start 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 (PSMH) or ceramic metal halide (CMH) lamps?
- 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?

Express Solution

SOLUTION CODE	SOLUTION DESCRIPTION FOR PULSE-START OR CERAMIC METAL HALIDE	INCENTIVE
		\$/unit of measure
	Interior pulse-start or 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

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Energy Efficiency

Incentives

PULSE-START OR CERAMIC METAL HALIDE, CONTINUED

EXTERIOR PULSE-START OR CERAMIC METAL HALIDE FIXTURES

New, hardwired pulse-start or ceramic metal halide fixtures (or retrofit kits) replacing, one for one, an existing, less efficient lighting source.

Express Solution Qualifying Questions

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

- Are complete new pulse-start or ceramic metal halide fixtures or retrofit kits being installed?
- Are new fixtures replacing, one for one, existing incandescent, mercury vapor, T12 linear fluorescent, T12/high output fluorescent, T12/very high output fluorescent, standard probe-start metal halide, or high-pressure sodium fixtures?
- 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 or ceramic metal halide lamps?
- 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 OR CERAMIC METAL HALIDE	INCENTIVE
		\$/unit of measure
	Exterior pulse-start or 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 CMH 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 one for one replacement of existing reflector-type incandescent, PAR halogen, or PAR halogen infrared (IR) lamps?
- Is the integrated ballast CMH PAR lamp 24 or 25 watts?
- Does the integrated ballast CMH PAR lamp have a rated lamp life of 10,500 hours or greater?
- Is the integrated ballast CMH 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 OR 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 OR 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.

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 one for one 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 OR 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 ¹
	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	\$0
LT-30958	Other exterior HID lighting	\$0.05	\$0

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

Energy Efficiency

Incentives

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

INTERIOR INDUCTION FIXTURES

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

Express Solution Qualifying Questions

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

- Are complete new induction fixtures being installed?
- 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/T12 High Output/T12 Very High Output linear fluorescent, standard probe-start metal halide, pulse-start metal halide, or high-pressure sodium fixtures in interior installations?
- Will all replacement fixtures be hardwired?
- Will fixtures be installed at a height over 12' above the finished floor to qualify for the 400-watt category?
- Is this the only Express Solution Category under which the fixtures are receiving incentives? Fixtures are not eligible for additional incentives under the other solution categories.

Express Solution

SOLUTION CODE	SOLUTION DESCRIPTION FOR INDUCTION	INCENTIVE	
		\$/unit of measure	
	Interior induction fixtures:		
LT-51211	≤ 100-watt lamp existing, up to 70-watt induction lamp	\$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 ¹
	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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INDUCTION, CONTINUED

EXTERIOR INDUCTION FIXTURES

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

Express Solution Qualifying Questions

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

- Are complete new induction fixtures being installed?
- 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/T12 High Output/T12 Very High Output linear fluorescent, standard probe-start metal halide, or high-pressure sodium fixtures in exterior installations? Existing pulse-start metal halide installations do not qualify.
- Do the new fixtures have a lower wattage than the fixtures being replaced without exceeding the maximum wattage listed in the solutions table that follows for each range of lamp wattage being replaced?
- Are new fixtures equipped with induction lamps and drivers?
- Will all replacement fixtures be hardwired?
- Will fixtures be installed at a height over 12' above the finished floor to qualify for the 400-watt category?

Express Solution

SOLUTION CODE	SOLUTION DESCRIPTION FOR INDUCTION	INCENTIVE	
		\$/unit of measure	
	Exterior induction fixtures:		
LT-10663	≤ 100-watt lamp existing, up to 70-watt replacement fixture	\$25.00 / fixture	
LT-60651	101- to 175-watt lamp existing, up to 100-watt replacement fixture	\$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 ¹
	Exterior induction lighting retrofits:		
LT-55464	Exterior induction retrofits	\$0.05	\$0
LT-87643	Other exterior induction lighting	\$0.05	\$0

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Energy Efficiency

Incentives

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

INTEGRAL LED LAMPS

Lamps with LEDs, an integrated LED driver, and an ANSI standardized base designed to connect to the branch circuit via an ANSI standardized lamp holder/socket.

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 interior LED integral lamps (screw-based or pin-based) ENERGY STAR-qualified? Visit http://www.energystar.gov/index.cfm?fuseaction=find_a_product.showProductGroup&pgw_code=LB for a list of qualified LED lamps.
- Are the LED lamps replacing, one for one, existing incandescent or halogen lamps? New LED lamp wattage must be less than the wattage of the replaced incandescent or halogen lamp.
- Do the LED lamps meet the minimum wattage requirements stated in the measure description? Incentive is based on lamp wattage, not total fixture wattage.
- Are new LED lamps compatible with existing lighting controls and/or fixture components? Customers are responsible for verifying compatibility with existing lighting controls.

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

Express Solution

SOLUTION CODE	SOLUTION DESCRIPTION FOR LED	INCENTIVE	
		\$/unit of measure	
LT-12834	A-lamps: ≤ 40 watts existing, up to 10 watts LED A-lamp	\$ 5.00 / lamp	
LT-10965	A-lamps: 41- to 100 watts existing, up to 30 watts LED A-lamp	\$ 15.00 / lamp	
LT-19877	MR16: ≤ 35 watts existing, up to 6 watts LED MR16	\$ 5.00 / lamp	
LT-54654	MR16: 36- to 50 watts existing, 5- to 10 watts LED MR16	\$ 12.50 / lamp	
LT-65785	PAR30: ≤ 50 watts existing, up to 15 watts LED PAR30	\$ 7.50 / lamp	
LT-89789	PAR30: 51- to 75 watts existing, 10- to 21 watts LED PAR30	\$ 17.50 / lamp	
LT-90344	PAR38: ≤ 50 watts existing, up to 17 watts LED PAR38	\$ 10.00 / lamp	
LT-92133	PAR38: 51- to 90 watts existing, 11- to 25 watts LED PAR38	\$ 20.00 / lamp	

Customized Solution

SOLUTION CODE	SOLUTION DESCRIPTION FOR LED	INCENTIVE	
		\$/kWh	\$/kW'
	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

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LED, CONTINUED

LED REFRIGERATED DISPLAY CASE LIGHTING RETROFIT

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

Express Solution Qualifying Questions

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

- Are the LED fixtures installed in a refrigerated case? This solution applies to fixture-only retrofits and incentive is paid on a “per door” basis.
- Are the LED fixtures found in new refrigerated display cases or replacing 5-foot or 6-foot T8, T12, or T12HO 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 http://www.designlights.org/solidstate.about.QualifiedProductsList_Publicv2.php.

Express Solution

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

Customized Solution

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

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? Will the sign include controls that adhere to Title 24 sign requirements?
- 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 ¹
	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	\$0
LT-54771 NEW	Exterior LED street name sign lighting	\$0.05	\$100
LT-39685	Other exterior LED lighting	\$0.05	\$0

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LED, CONTINUED

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

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

Express Solution Qualifying Questions

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

- Are new LED downlight fixtures ENERGY STAR®-qualified? Visit 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 fixtures with lamps greater than or equal to 40 watts?
- Are new LED downlight fixtures less than or equal to 15 watts?
- Are new LED downlights compatible with existing lighting controls? Customers are responsible for verifying compatibility with existing lighting controls.

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 ¹
	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

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Energy Efficiency

Incentives

LED, CONTINUED

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 ¹
	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-19123	Interior LED pool lighting	\$0.05	\$100
LT-29684	Other interior LED lighting	\$0.05	\$100

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

SOLUTION CODE	SOLUTION DESCRIPTION FOR LED	INCENTIVE	
		\$/kWh	\$/kW ¹
	Exterior LED lighting:		
LT-85834	Exterior LED fixture replacements (utilizing approved luminaires)	\$0.05	\$0
LT-48371	Exterior LED street lighting	\$0.05	\$0
LT-37654	Exterior LED outdoor pole/arm-mounted area and roadway luminaires	\$0.05	\$0
LT-23267	Exterior LED outdoor pole/arm-mounted decorative luminaires	\$0.05	\$0
LT-96754	Exterior LED wall-mounted area luminaires	\$0.05	\$0
LT-79301	Exterior LED wall wash luminaires	\$0.05	\$0
LT-68791	Exterior LED bollards	\$0.05	\$0
LT-46594	Exterior LED advertisement sign/smart sign	\$0.05	\$0
LT-23623	Exterior LED pool lighting	\$0.05	\$0
LT-45872 NEW	Exterior screw-in LED lamp	\$0.05	\$100
LT-54097 NEW	Exterior screw-in PAR/Reflector LED lamps	\$0.05	\$100
LT-39685	Other exterior LED lighting	\$0.05	\$0

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



COMPACT FLUORESCENT FIXTURES

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

COMPACT FLUORESCENT FIXTURES

Express Solution Qualifying Questions

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

- Are complete new compact fluorescent fixtures being installed?
- Do the new fixtures have a lower wattage than the fixtures being replaced without exceeding the maximum wattage listed in the incentive table below for each range of lamp wattage being replaced?
- Are new fixtures equipped with compact fluorescent lamps (CFLs) and electronic ballasts?
- Are CFL ballasts programmed-start or programmed rapid-start with a power factor (PF) of greater than or equal to 0.90 and total harmonic distortion (THD) of less than or equal to 20%?
- Are new fixtures replacing, one for one, existing incandescent, mercury vapor, T12 linear fluorescent, T12/High Output fluorescent, T12/Very High Output linear fluorescent, standard probe-start metal halide, or high-pressure sodium fixtures? Existing pulse-start metal halide installations do not qualify.
- Will all replacement fixtures be hardwired?
- Will fixtures be installed at a height over 12' above the finished floor to qualify for the 400-watt categories?
- Is this the only Express Solution category under which the fixtures are receiving incentives?

Express Solution

SOLUTION CODE	SOLUTION DESCRIPTION FOR COMPACT FLUORESCENT FIXTURES	INCENTIVE	
		\$/unit of measure	
	Interior:		
LT-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'
	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

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Energy Efficiency

Incentives

COMPACT FLUORESCENT FIXTURES, CONTINUED

SCREW-IN COMPACT FLUORESCENT REFLECTOR LAMPS

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

Express Solution Qualifying Questions

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

- Are the screw-in compact fluorescent reflector lamps with integrated ballasts listed as ENERGY STAR®-qualified? Visit www.energystar.gov for a list of qualifying lamps.
- Is the screw-in compact fluorescent reflector lamp wattage between 14 and 28 watts?
- Does the retrofit involve the one for one replacement of existing reflector-type incandescent, PAR halogen, or PAR halogen IR lamps? Accent lighting, flood lighting, and down lighting all qualify for this incentive.

Express Solution

SOLUTION CODE	SOLUTION DESCRIPTION FOR COMPACT FLUORESCENT FIXTURES	INCENTIVE
		\$/unit of measure
LT-55729	Screw-in compact fluorescent reflector lamps, 14–28 watts	\$7.00 / lamp

COLD CATHODE

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

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, one for one, 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

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**LIGHTING CONTROLS**

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

WALL-BOX LIGHTING SENSORS

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

Express Solution Qualifying Questions

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

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

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

Express Solution

SOLUTION CODE	SOLUTION DESCRIPTION FOR LIGHTING CONTROLS	INCENTIVE
		\$/unit of measure
LT-58209	Wall-box lighting sensor	\$20.00 / sensor

WALL- OR CEILING-MOUNTED LIGHTING SENSORS

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

Express Solution Qualifying Questions

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

- Are hardwired PIR and/or ultrasonic detectors being installed to control interior lighting fixtures?
- Do sensors meet the wattage-controlled requirements listed in the incentive table below?
- Will programmed rapid-start ballasts be used when occupancy sensors are installed to control fluorescent lamps? (This is generally recommended; however, it is not required.)
- Will the proper lamps and ballasts be used for the retrofit? Customers shall ensure that the appropriate lamps and ballast are in use for the installation.

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

Express Solution

SOLUTION CODE	SOLUTION DESCRIPTION FOR LIGHTING CONTROLS	INCENTIVE
		\$/unit of measure
LT-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

Energy Efficiency

Incentives

LIGHTING CONTROLS, CONTINUED

INTEGRATED SENSORS

Lights are turned on and off based on detection of motion by occupancy sensors mounted on each lighting fixture.

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 hardwired PIR and/or ultrasonic detectors being installed to control interior lighting fixtures?
- 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?
- 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 lamps and ballasts be used for the retrofit? Customers shall ensure that the appropriate lamps and ballast are in use for the installation.

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

Express Solution

SOLUTION CODE	SOLUTION DESCRIPTION FOR LIGHTING CONTROLS	INCENTIVE	
		\$/unit of measure	
LT-41007	Integrated sensor: < 150 watts	\$15.00 / sensor	
LT-76101	Integrated sensor: ≥ 150 watts	\$40.00 / sensor	

Customized Solution

SOLUTION CODE	SOLUTION DESCRIPTION FOR LIGHTING CONTROLS	INCENTIVE	
		\$/kWh	\$/kW ¹
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
LT-94134	Other lighting controls	\$0.05	\$100
LT-32843	Dimming Ballasts—20% Tuning	\$0.05	\$100
LT-48272*	Dimming Ballasts—20% Tuning + Auto Demand Response	\$0.05	\$100
LT-57958	Dimming Ballasts—20% Tuning + Occupancy Sensor	\$0.05	\$100
LT-60897*	Dimming Ballasts—20% Tuning + Occupancy Sensor + Auto Demand Response	\$0.05	\$100
LT-36502	Dimming Ballasts—20% Tuning + Daylight Harvesting	\$0.05	\$100
LT-49584*	Dimming Ballasts—20% Tuning + Daylight Harvesting + Auto Demand Response	\$0.05	\$100
LT-78223	Dimming Ballasts—20% Tuning + Occupancy Sensor + Daylight Harvesting with Side Lighting Photo Controls	\$0.05	\$100
LT-89432*	Dimming Ballasts—20% Tuning + Occupancy Sensor + Daylight Harvesting with Side Lighting Photo Controls + Auto Demand Response	\$0.05	\$100

* To be eligible for incentives, these solutions must be used with their corresponding Demand Response solutions found on page 75.

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



AISLE TRAFFIC SENSOR FOR REACH-IN REFRIGERATED CASE DOORS

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

Express Solution Qualifying Questions

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

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

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

Express Solution

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

* Also available under Refrigeration Solutions.

Customized Solution

SOLUTION CODE	SOLUTION DESCRIPTION FOR LIGHTING CONTROLS	INCENTIVE	
		\$/kWh	\$/kW ¹
LT-90192	Lighting controls—aisle traffic sensor for refrigerated display cases	\$0.05	\$100

Energy Efficiency

Incentives

LIGHTING CONTROLS, CONTINUED

PHOTOCELLS FOR EXTERIOR LIGHTING

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 FOR LIGHTING

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



FOOD SERVICE

COOKING EQUIPMENT

New energy-efficient cooking and cooking process equipment.

For a list of qualifying Food Service products, visit 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 specific 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. Incentives are based on the MAU fan motor horsepower.

Express Solution Qualifying Questions

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

- Is a new commercial kitchen exhaust hood control system being installed in an existing or new dedicated commercial kitchen exhaust hood and MAU? **Indicate MAU hp on invoice.** The incentive is based on MAU hp.
- Will the control system be used in conjunction with variable-speed fan motor controls? VSDs must be installed on both the exhaust and the MAU fans.
- Is the system on the Food Service Technology Center pre-approved list? Only pre-approved control systems qualify for an incentive. Refer to <http://www.fishnick.com/saveenergy/rebates/> to determine if the control system qualifies.

Application process: Project Installation Worksheet must be submitted with the Application. Worksheet available at 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

Express Solution Qualifying Questions

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

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

Express Solution

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

Energy Efficiency

Incentives

COOKING EQUIPMENT, CONTINUED

COMMERCIAL ELECTRIC COMBINATION OVENS

Express Solution Qualifying Questions

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

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

TABLE 1. ASTM F2861 IDLE RATE REQUIREMENTS FOR COMMERCIAL COMBINATION OVEN/STEAMERS		
Combi Oven Type	Steam Mode Idle Rate	Convection Mode Idle Rate
Electric Combi < 15 pan capacity*	≤ 5.0kW	≤ 2.0kW
Electric Combi 15-28 pan capacity*	≤ 6.0kW	≤ 2.5kW
Electric Combi > 28 pan capacity*	≤ 9.0kW	≤ 3.5kW

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

Express Solution

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

COMMERCIAL ELECTRIC CONVECTION OVENS

Express Solution Qualifying Questions

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

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

Express Solution

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

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COOKING EQUIPMENT, CONTINUED

COMMERCIAL ELECTRIC FRYERS

Express Solution Qualifying Questions

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

Qualifying electric fryer models must have a tested heavy load cooking energy efficiency $\geq 80\%$ and idle energy rate ≤ 1.0 kW utilizing ASTM Standard F1361.

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

Note: Multiple vat configurations are paid per qualifying vat.

Express Solution

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

COMMERCIAL LARGE VAT ELECTRIC FRYERS

Express Solution Qualifying Questions

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

Qualifying electric large vat fryer models must have a tested heavy-load (French fry) cooking energy efficiency of $\geq 80\%$ utilizing ASTM Standard F2144.

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

Note: Multiple vat configurations are paid per qualifying vat.

Express Solution

SOLUTION CODE	SOLUTION DESCRIPTION FOR COOKING EQUIPMENT	INCENTIVE
		\$/unit of measure
	Commercial electric:	
FS-49213	Large vat fryer	\$200.00 / vat

Energy Efficiency

Incentives

COOKING EQUIPMENT, CONTINUED

COMMERCIAL ELECTRIC STEAM COOKER

Express Solution Qualifying Questions

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

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

Express Solution

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

HOLDING CABINETS

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

Express Solution Qualifying Questions

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

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

Note: Cook and hold equipment does not qualify.

Express Solution

SOLUTION CODE	SOLUTION DESCRIPTION FOR HOLDING CABINETS	INCENTIVE
		\$/unit of measure
	Insulated:	
FS-20224	Full size	\$300.00 / unit
FS-93639	Three-quarter size	\$250.00 / unit
FS-31559	Half size	\$200.00 / unit



COMMERCIAL ICE MACHINES

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

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

Express Solution Qualifying Questions

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

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

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

TABLE 4. ENERGY-EFFICIENT ICE MAKER ENERGY EFFICIENCY REQUIREMENTS

Equipment Type	Ice Harvest Rate (lbs ice/day)	Energy Use Limit (kWh/100 lbs ice)	Potable Water Use Limit (gal/100 lbs ice)
Ice Maker Head (IMH)	< 450	$9.23 - 0.0077 \times H^a$	≤ 25
	≥ 450	$6.20 - 0.0010 \times H^a$	≤ 25
Remote Condensing Unit (RCU) without remote compressor	< 1,000	$8.05 - 0.0035 \times H^a$	≤ 25
	≥ 1,000	4.64	≤ 25
Remote Condensing Unit (RCU) with remote compressor	< 934	$8.05 - 0.0035 \times H^a$	≤ 25
	≥ 934	4.82	≤ 25
Self Contained Unit (SCU)	< 175	$16.7 - 0.0436 \times H^a$	≤ 25
	≥ 175	9.11	≤ 25

TABLE 5. SUPER-EFFICIENT ICE MAKER ENERGY EFFICIENCY REQUIREMENTS

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

Energy Efficiency

Incentives

COMMERCIAL ICE MACHINES, CONTINUED

Express Solution

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

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COMMERCIAL REACH-IN REFRIGERATORS OR FREEZERS

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

For a list of qualifying Food Service products, visit 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.

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

Is the refrigeration system packaged?

Exclusions:

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

Express Solution

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

Energy Efficiency

Incentives

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.

REFRIGERATION CURTAINS

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

SOLUTION CODE	SOLUTION DESCRIPTION FOR STRIP CURTAINS	INCENTIVE	
		\$/kWh	\$/kW ¹
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.



DOORS

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

AUTO-CLOSERS FOR MAIN COOLER OR MAIN FREEZER DOORS

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

Express Solution Qualifying Questions

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

- Will the auto-closer be added to an existing refrigerator?
- 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 ¹
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

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

Energy Efficiency

Incentives

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

EFFICIENT EVAPORATOR FAN MOTOR

Electronically commutated motors (ECMs) replacing an existing standard efficiency shaded-pole evaporator fan motor of refrigerated display cases 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 or permanent split capacitor evaporator or condenser fan motor of refrigerated display cases or fan coil systems in walk-ins?
- Are shaded-pole or permanent split capacitor motors being replaced by ECMs?

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 ¹
RF-20986	Walk-in electronically commutated motor (ECM)	\$0.09	\$100
RF-16543	Display case electronically commutated motor (ECM)	\$0.09	\$100
RF-54765	Other refrigeration motors	\$0.09	\$100

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



DISPLAY CASES Horizontal and vertical refrigerated display cases.

NIGHT COVERS FOR OPEN VERTICAL AND HORIZONTAL DISPLAY CASES

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

Express Solution Qualifying Questions

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

- Is a cover being installed on an otherwise open display case to decrease cooling load of the refrigerated case during off hours? Is the display case temperature setpoint between 4 and 24 degrees Fahrenheit for low-temp cases, and between 24 and 38 degrees Fahrenheit for medium-temp cases?
- Has the linear footage of the installed night cover been properly measured? The incentive is based on the linear footage of the installed night cover.
- Will the cover be applied for an average period of at least 6 hours per day?
- Are night covers installed on display cases that have compressor capacity modulation mechanisms (such as variable-speed drive (VSD) or cylinder unloader), evaporator pressure regulators (EPR) set to higher suction temperatures when night covers are applied, or resized TXVs set with higher suction pressures when covers are applied. Applications must include information regarding modifications to or proof of existing refrigeration capacity modulation controls.
- Will night covers be installed by an authorized product representative, and will the installer verify that the night covers are compatible with the display cases so that they do not degrade system performance?

Express Solution

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

Customized Solution

SOLUTION CODE	SOLUTION DESCRIPTION FOR DISPLAY CASES	INCENTIVE	
		\$/kWh	\$/kW ¹
RF-59786	Other refrigeration display cases	\$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

DISPLAY CASES, CONTINUED

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

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

Express Solution Qualifying Questions

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

- Does the retrofit involve the replacement of an existing open multi-deck display case door with a new high-efficiency reach-in unit with double-pane glass doors with heat-reflective treatment or gas fill, ECM fan motors (evaporator and/or condenser), and T8 lamps and electronic ballast? This solution can be applied to self-contained or remote cases. The display case temperature setpoint must be between 5 and 24 degrees Fahrenheit for low-temp cases and between 24 and 36 degrees Fahrenheit for med-temp cases.
- Have the display cases been properly measured? 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 ¹
RF-45362	High-efficiency medium-temperature open display cases	\$0.09	\$100
LT-90192*	Lighting controls—aisle traffic sensor for refrigerated display cases	\$0.05	\$100
RF-59786	Other refrigeration display cases	\$0.09	\$100

* Also available under Lighting Solutions.

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DISPLAY CASES, CONTINUED

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

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

Express Solution Qualifying Questions

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

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

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

Express Solution

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

Customized Solution

SOLUTION CODE	SOLUTION DESCRIPTION FOR DISPLAY CASES	INCENTIVE	
		\$/kWh	\$/kW ¹
RF-40976	Low-temperature high-efficiency reach-in display cases	\$0.09	\$100
LT-90192*	Lighting controls—aisle traffic sensor for refrigerated display cases	\$0.05	\$100
RF-59786	Other refrigeration display cases	\$0.09	\$100

* Also available under Lighting Solutions.

Energy Efficiency

Incentives

DISPLAY CASES, CONTINUED

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

Replacement of a standard glass door of a low-temperature reach-in display case with a glass door that requires minimal to no anti-sweat heat. 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 with one glass pane of a low-temperature reach-in display case being replaced with a special glass door that requires minimum to no anti-sweat heat (ASH)? Is replacement door double-pane glass with heat-reflective treatment or gas fill? Is the display case temperature setpoint between 5 and 24 degrees Fahrenheit?
- Will new doors prevent condensation?
- Is the total wattage from the door rail, glass, and frame heater not more than 7.1 watts per square foot (W/ft²) of door opening?
- Is this the only Express Solution category under which the fixtures are receiving incentives? This solution cannot be used in conjunction with Anti-Sweat Heat (ASH) Controls category.

Express Solution

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

* Also available under Lighting Solutions.



INSULATION

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

INSULATION FOR BARE SUCTION LINES

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

Express Solution Qualifying Questions

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

- Does the retrofit involve insulating bare refrigeration suction lines of $1\frac{5}{8}$ inch or less on existing equipment only? Only sections of piping located outside of the refrigerated space are eligible for this incentive.
- If insulating medium-temperature lines, will $\frac{3}{4}$ inch of flexible closed-cell nitrite rubber or equivalent insulation be used? Insulation R-values must be R-3.2 or greater. Medium temperature lines supply refrigerated spaces with temperature setpoints between 24 and 38 degrees Fahrenheit.
- If insulating low-temperature lines, will 1 inch of flexible closed-cell nitrite rubber or equivalent insulation be used? Insulation R-values must be R-4.3 or greater. Low temperature lines supply spaces with temperature setpoints between 5 and 24 degrees Fahrenheit.
- Has the length of the insulated material been properly measured? Incentive is based on the length, in linear feet, of the insulation installed?

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

Express Solution

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

Customized Solution

SOLUTION CODE	SOLUTION DESCRIPTION FOR INSULATION	INCENTIVE	
		\$/kWh	\$/kW ¹
RF-88033	Insulate bare suction pipes	\$0.09	\$100
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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Energy Efficiency

Incentives

REFRIGERATION CONDENSER

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

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

SOLUTION CODE	SOLUTION DESCRIPTION FOR CONDENSER	INCENTIVE	
		\$/kWh	\$/kW ¹
RF-53109	Oversized evaporated cooled condenser	\$0.15	\$100
RF-90876	Oversized air cooled condenser	\$0.15	\$100
RF-49983 NEW	Efficient refrigeration condensing unit	\$0.15	\$100
RF-89012	Other refrigeration condensers	\$0.15	\$100

REFRIGERATION COMPRESSOR

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

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

SOLUTION CODE	SOLUTION DESCRIPTION FOR COMPRESSOR	INCENTIVE	
		\$/kWh	\$/kW ¹
RF-95720	Scroll compressor for bulk tanks	\$0.15	\$100
RF-75894	Compressor sequencing (industrial and commercial 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 ¹
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 and commercial refrigeration)	\$0.09	\$100
RF-28505	Efficient refrigeration—operations	\$0.09	\$100
RF-68574	Repiping refrigeration whey-processing system	\$0.09	\$100
RF-78143 NEW	Refrigeration system retrofits	\$0.15	\$100
RF-63798 NEW	Refrigeration fan retrofits	\$0.09	\$100
RF-37209	Other refrigeration systems	\$0.09	\$100

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REFRIGERATION CONTROLS

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

EVAPORATOR FAN CONTROLLER FOR WALK-IN COOLERS AND FREEZERS

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

Express Solution Qualifying Questions

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

- Will airflow of evaporator fans in walk-in coolers/freezers be reduced when compressor(s) cycle off and there is no refrigerant flow through the evaporator?
- Does the existing equipment have a minimum fan load of 1/20 horsepower when the fan(s) operates at full speed, and does the fan(s) operate continuously at full speed?
- Will fan motor power be reduced by at least 75% during the compressor off-cycle? The following conditions must also be met in order to be eligible:
 - The compressor does not run all the time with high duty cycle (greater than or equal to 50%)
 - The evaporator fan runs at full speed all the time
 - The evaporator fan motor is single phase
 - Evaporator uses 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 ¹
RF-56398	Evaporator coil fan control (cycling)	\$0.09	\$100
RF-67588	Other refrigeration controls	\$0.09	\$100

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Energy Efficiency

Incentives




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. Power reduction should occur when relative humidity levels reach 55% and lower. Power reduction should decrease by at least 2% for every percentage the humidity falls below 55%.
-  Is this the only Express Solution category under which the fixtures are receiving incentives? This solution cannot be used in conjunction with New High-Efficiency Refrigeration Display Cases with Special Doors (Low Temp) and Special Doors with Low/No Anti-Sweat Heat on Low Temperature Display Cases categories.
-  Has the linear footage of the case been properly measured? Incentive is based on the total linear footage of the case that is subject to the anti-sweat heater controls.

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

Express Solution

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

Customized Solution

SOLUTION CODE	SOLUTION DESCRIPTION FOR REFRIGERATION CONTROLS	INCENTIVE	
		\$/kWh	\$/kW ¹
RF-60982	Anti-sweat heater (ASH) controls	\$0.09	\$100
RF-67588	Other refrigeration controls	\$0.09	\$100

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REFRIGERATION CONTROLS, CONTINUED

VENDING MACHINE CONTROLLER

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

Express Solution Qualifying Questions

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

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

Express Solution

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

REFRIGERATION SYSTEM OPTIMIZATION

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

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

SOLUTION CODE	SOLUTION DESCRIPTION FOR REFRIGERATION CONTROLS	INCENTIVE	
		\$/kWh	\$/kW ¹
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	\$0.15	\$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
RF-79521	Refrigeration compressor controls	\$0.09	\$100
RF-67588	Other refrigeration controls	\$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

BUILDING ENVELOPE

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

Express Solution Qualifying Questions

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

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

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

Express Solution

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

Customized Solution

SOLUTION CODE	SOLUTION DESCRIPTION FOR WINDOW FILM	INCENTIVE	
		\$/kWh	\$/kW ¹
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.



WINDOW

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

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

SOLUTION CODE	SOLUTION DESCRIPTION FOR WINDOW	INCENTIVE	
		\$/kWh	\$/kW ¹
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 ¹
BE-60912	Building shell improvements	\$0.09	\$100
BE-38475	Other building envelope applications	\$0.09	\$100

Energy Efficiency

Incentives

WATER HEATING

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

ELECTRIC STORAGE WATER HEATER

Please visit 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
WH-50970	Electric storage water heater: EF rating \geq 0.93	\$/unit of measure \$30.00 / unit

▲ Indicates updated qualifying criteria

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HEATING, VENTILATING AND AIR CONDITIONING (HVAC)

DIRECT EXPANSION (DX) EQUIPMENT

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

PACKAGE TERMINAL AIR CONDITIONERS AND PACKAGE HEAT PUMPS

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

Express Solution Qualifying Questions

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

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

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

- PTAC Min EER = $10.9 - (0.213 \times \text{capacity in Btu/hr}^2) \div 1,000$
- PTHP Min EER = $10.8 - (0.213 \times \text{capacity in Btu/hr}^2) \div 1,000$

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

Energy Efficiency

Incentives

EVAPORATIVE COOLERS

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

ADVANCED EVAPORATIVE COOLERS

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

Express Solution Qualifying Questions

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

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

Express Solution

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

Customized Solution

SOLUTION CODE	SOLUTION DESCRIPTION FOR EVAPORATIVE COOLERS	INCENTIVE	
		\$/kWh	\$/kW ¹
	Indirect evaporative cooling		
AC-22324	Indirect evaporative cooling—single stage	\$0.15	\$100
AC-45968	Indirect evaporative cooling—dual stage	\$0.15	\$100
AC-32882	Direct evaporative pre-cooler for condensing units	\$0.15	\$100
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.



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 ¹
	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

CHILLER

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

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

SOLUTION CODE	SOLUTION DESCRIPTION FOR CHILLERS	INCENTIVE	
		\$/kWh	\$/kW ¹
	High-efficiency chillers:		
AC-98022	High-efficiency chillers—water cooled	\$0.15	\$100
AC-85073	High-efficiency chillers—air 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 ¹
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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Energy Efficiency

Incentives

COOLING TOWER

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

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

SOLUTION CODE	SOLUTION DESCRIPTION FOR COOLING TOWER	INCENTIVE	
		\$/kWh	\$/kW ¹
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 ¹
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 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 ¹
AC-95854	Replace air cooled condenser with evaporative condenser	\$0.15	\$100
AC-38534	Other HVAC condenser applications	\$0.15	\$100

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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 ¹
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	\$0.15	\$100
AC-68495	Tie into central plant	\$0.09	\$100
AC-93670	Thermal energy storage energy savings	\$0.09	\$100
AC-24387 NEW	Replace standard air filter with high efficiency, low pressure drop air filter	\$0.09	\$100
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 or return air fans? VFDs on cooling towers or VFDs replacing existing VFDs are not eligible for an incentive under this measure.**
- Is the fan equal to or less than 100 hp?
- Will modifications be made to existing system to allow for proper operation of VFD? For example for supply fans, will throttling devices such as inlet vanes or bypass dampers be removed or permanently disabled and fixed in the full-open position?
- Will there be a 3% impedance choke? Impedance choke prevents high frequencies from entering high cost equipment such as motors. Chokes also smooth the output from the VFD rectifier. (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

▲ Indicates updated qualifying criteria

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Energy Efficiency

Incentives

HVAC CONTROLS, CONTINUED

Customized Solution

SOLUTION CODE	SOLUTION DESCRIPTION FOR HVAC CONTROLS	INCENTIVE	
		\$/kWh	\$/kW ¹
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
AC-79531	HVAC compressor controls	\$0.09	\$100
AC-50654	Carbon dioxide (CO ₂) demand control ventilation	\$0.09	\$100
AC-21212 NEW	100% outside air to minimum outside air HVAC conversion	\$0.09	\$100
AC-74231	Other HVAC controls	\$0.09	\$100

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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 imaging equipment be ENERGY STAR®-qualified and replace equipment without an idle/off control capability? Equipment must use 1 watt or less in standby mode (ENERGY STAR® criteria). A list of qualifying models can be found at the ENERGY STAR® website, 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	
OE-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 ¹
OE-71521	Data center server virtualization	\$0.09	\$100
OE-85746	Data center robot	\$0.09	\$100
OE-96858	Thin client	\$0.09	\$100
OE-19042	Digital data storage consolidation	\$0.09	\$100
AC-33209 NEW	Data center passive rear-door cooling or in-row cooling configuration	\$0.09	\$100
OE-29712	Other computer technology applications	\$0.09	\$100

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Energy Efficiency

Incentives

OFFICE EQUIPMENT CONTROLS




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

PLUG LOAD OCCUPANCY SENSOR

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

Express Solution Qualifying Questions

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

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

Express Solution

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



OFFICE EQUIPMENT CONTROLS, CONTINUED

PC NETWORK SOFTWARE

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

Express Solution Qualifying Questions

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

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

Express Solution

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

Customized Solution

SOLUTION CODE	SOLUTION DESCRIPTION FOR OFFICE EQUIPMENT CONTROLS	INCENTIVE	
		\$/kWh	\$/kW ¹
OE-39456	Data center 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 Energy Independence and Security Act (EISA) of 2007 established new energy conservation standards for electric motors.

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

http://www1.eere.energy.gov/buildings/appliance_standards/eisa2007.html

or

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

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

SOLUTION CODE	SOLUTION DESCRIPTION FOR PREMIUM EFFICIENCY MOTORS	INCENTIVE	
		\$/kWh	\$/kW ¹
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
MT-50941	Constant speed variable load motor controller	\$0.09	\$100
MT-28473	Motor cycling controls	\$0.09	\$100

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PUMPING

IRRIGATION

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

SPRINKLER TO DRIP IRRIGATION

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

Express Solution Qualifying Questions

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

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

Express Solution

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

LOW-PRESSURE SPRINKLER NOZZLES

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

Express Solution Qualifying Questions

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

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

Express Solution

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

Energy Efficiency

Incentives

PUMPS

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

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

SOLUTION CODE	SOLUTION DESCRIPTION FOR PUMPS	INCENTIVE	
		\$/kWh	\$/kW ¹
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
PM-50902	Industrial pump retrofit	\$0.09	\$100
PM-67743 NEW	High efficiency pump	\$0.09	\$100
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 ¹
	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
PM-29644	Optimize fluid flow system	\$0.09	\$100
PM-18434	High-efficiency transformer	\$0.09	\$100
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 ¹
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
PM-21834	Nonresidential pool pump—VSD	\$0.09	\$100
PM-98434	Wastewater pump—VSD	\$0.09	\$100
PM-35845	Fluid pump—VFD	\$0.09	\$100
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 ¹
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 ¹
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

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COMPRESSED GASES

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

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

SOLUTION CODE	SOLUTION DESCRIPTION FOR DESALTER	INCENTIVE	
		\$/kWh	\$/kW ¹
PR-71632	Phase change retrofit	\$0.09	\$100
PR-87504	Air compressor no-loss drain valves	\$0.09	\$100

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 ¹
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
PR-10653	Vertical roller feed dryer for air compressors	\$0.09	\$100
PR-68573	Other drying applications	\$0.09	\$100

CHILLER

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

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

SOLUTION CODE	SOLUTION DESCRIPTION FOR CHILLER	INCENTIVE	
		\$/kWh	\$/kW ¹
PR-78584	High-efficiency process chiller	\$0.15	\$100
PR-42009 NEW	Process chilled water pump system upgrades	\$0.09	\$100
PR-83948	Other process chiller applications	\$0.09	\$100

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Energy Efficiency

Incentives

HEAT EXCHANGER

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

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

SOLUTION CODE	SOLUTION DESCRIPTION FOR HEAT EXCHANGER	INCENTIVE	
		\$/kWh	\$/kW ¹
PR-95736	Heat exchanger upgrades	\$0.09	\$100
PR-17498	Other heat exchanger applications	\$0.09	\$100

PROCESS SYSTEM

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

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

SOLUTION CODE	SOLUTION DESCRIPTION FOR PROCESS SYSTEM	INCENTIVE	
		\$/kWh	\$/kW ¹
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-68760 NEW	Nitrogen tartrate removal system upgrade for wine production	\$0.09	\$100
PR-78924 NEW	Adsorption vapor recovery system retrofits	\$0.09	\$100
PR-40970 NEW	Gas separation and liquefaction process retrofits	\$0.09	\$100
PR-90877 NEW	Low NOx boiler replacing standard low NOx boiler with lowered fan HP requirements	\$0.09	\$100
PR-10911 NEW	Replace motor-generator set with solid state power conversion	\$0.09	\$100
PR-59860	Other process systems	\$0.09	\$100

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

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



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 ¹
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 ¹
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

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

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

Energy Efficiency

Incentives

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 ¹
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 ¹
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 ¹
PR-65701	Efficient electric melting	\$0.09	\$100
PR-69848	Other melting machine applications	\$0.09	\$100

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

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



OVEN

An enclosed compartment for heating, baking or drying.

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

SOLUTION CODE	SOLUTION DESCRIPTION FOR OVEN	INCENTIVE	
		\$/kWh	\$/kW ¹
PR-67492	Efficient curing ovens	\$0.09	\$100
PR-71928	Other process oven machine applications	\$0.09	\$100

DESALTER

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

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

SOLUTION CODE	SOLUTION DESCRIPTION FOR DESALTER	INCENTIVE	
		\$/kWh	\$/kW ¹
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 ¹
PR-38532	Install high efficiency industrial blower	\$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 CONTROLS

Sensors or automated systems utilize 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 ¹
	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-34895 NEW	Wastewater aerator blower—VFD	\$0.09	\$100
PR-20847	Process motor—VFD	\$0.09	\$100
PR-30694	Boiler fans—VFD	\$0.09	\$100
PR-90435	Blower—VFD	\$0.09	\$100
PR-60824	Cooling tower—VFD	\$0.09	\$100
PR-48832	Autoclave fans—VFD	\$0.09	\$100
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
PR-32856	Air compressor system control	\$0.09	\$100
PR-98124	Install bypass controls for a metal cleaning system	\$0.09	\$100
PR-89417	Collection control system	\$0.09	\$100
PR-89584	Molding machine controls	\$0.09	\$100
PR-45439	Compressor air dryer control	\$0.09	\$100
PR-69972	Process laser control	\$0.09	\$100
PR-21879 NEW	Combustion air blower flow controls	\$0.09	\$100
PR-40679	Other process control applications	\$0.09	\$100

STORAGE TANKS

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

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

SOLUTION CODE	SOLUTION DESCRIPTION FOR STORAGE TANKS	INCENTIVE	
		\$/kWh	\$/kW ¹
PR-50498	Add storage tanks to prevent compressor short cycling	\$0.09	\$100
PR-20948	Other process storage tank application	\$0.09	\$100

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

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



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 ¹
PR-69844	Efficient battery charger	\$0.09	\$100

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 ¹
PR-64722	Efficient lamination machine	\$0.09	\$100
PR-78186	Other laminator applications	\$0.09	\$100

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 ¹
PR-63889	Professional wet cleaning equipment	\$0.09	\$100
PR-60594	Other wet cleaning applications	\$0.09	\$100

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

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

Demand Response

Options

Enroll

SCE offers a full suite of Demand Response (DR) 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 DR 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 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 DBP to be a good way to get started in DR.

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 DR.

CAPACITY BIDDING PROGRAM (CBP)

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

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 CBP 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.**



DEMAND RESPONSE CONTRACTS (DRC)

Aggregators 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 Aggregators, who compensate them 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 Aggregator.
- You will need to consistently reduce power by an agreed-upon amount on a month-to-month basis.

Some customers prefer the flexibility that an Aggregator may be able to offer.

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.
- You must be a bundled customer (i.e., you must procure your electrical generation from SCE) to enroll in this rate.

Some customers that operate 24/7 find RTP-2 a good way to minimize their annual electric bill. 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 sewage pumping.

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 DR 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.

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.**

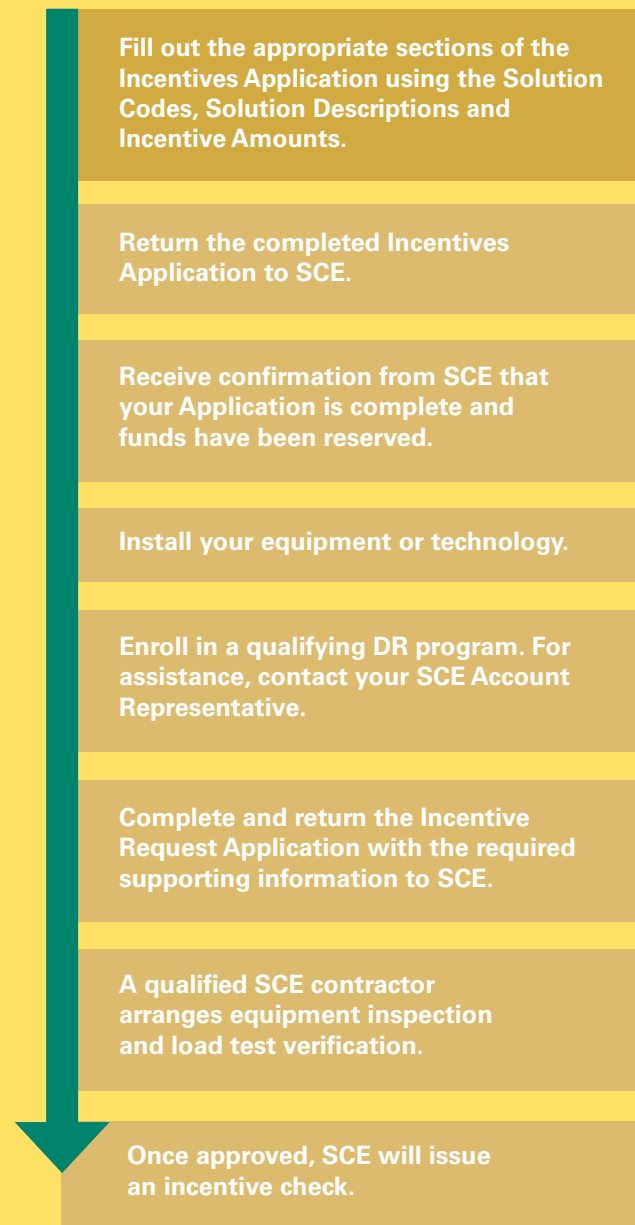


When complete, submit application to:
Southern California Edison, Business Incentives
P.O. Box 800, Rosemead, CA 91770-0800
Questions? Call (800) 736-4777

Apply

To qualify for the DR Technology Incentive you need to satisfy the eligibility requirements located in the Appendix on page 85.

Use the diagram to the 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 7 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
DR-48272*	Dimming Ballasts—20% Tuning + Auto Demand Response	Defined in project proposal
DR-49584*	Dimming Ballasts—20% Tuning + Daylight Harvesting + Auto Demand Response	Defined in project proposal
DR-60897*	Dimming Ballasts—20% Tuning + Occupancy Sensor + Auto Demand Response	Defined in project proposal
DR-89432*	Dimming Ballasts—20% Tuning + Occupancy Sensor + Daylight Harvesting with Side Lighting Photo Controls + Auto Demand Response	Defined in project proposal

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

Demand Response

Demand Response Programs Dual Enrollment Options

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

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

If You Are Enrolled in This Program Today	You May Add One of These Programs ¹
Agricultural and Pumping Interruptible (AP-I)	• CPP • DBP • PA-RTP • SLRP
Base Interruptible Program (BIP) ²	• 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 ³ (Constellation Energy “Day-Of” Option, EnerNOC “Day-Of”)
Demand Response Contract (DRC) • Constellation Energy “Day-Of” Option • EnerNOC “Day-Of”	• CPP • DBP ³ • PA-RTP • RTP-2
Demand Response Contract (DRC) • Constellation Energy “Day-Ahead” Option • 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

¹ In addition to being able to sign up for two DR programs, you may also participate in Optional Binding Mandatory Curtailment (OBMC), a program which exempts customers from rotating outages in exchange for partial load reduction of their entire circuit during every rotating outage.

² Customers enrolled in BIP through an Aggregator are not eligible to participate in any other DR programs.

³ 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 DR 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, for a complete list of terms and conditions of services.

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

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

TECHNICAL ASSISTANCE

Customers that qualify can receive a free DR assessment of their facility to help identify DR potential and build a curtailment 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.

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

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

EXPRESS SOLUTIONS EQUIPMENT REQUIREMENTS

All equipment must:

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

A complete list of qualifying solutions and equipment requirements is included at 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.

Additional Provisions

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

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

Appendix

Incentive Eligibility Requirements

EXPRESS SOLUTIONS
ELIGIBILITY REQUIREMENTS,
CONTINUED

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

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

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

EXPRESS SOLUTIONS EQUIPMENT INCENTIVE LIMITS

Refer to the Energy Management Solutions Incentives Application or 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 costs: Installed cost includes material cost only. Labor costs may be eligible as part of the incentive cost when a vendor-installed project is involved.

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

EXPRESS SOLUTIONS EQUIPMENT INCENTIVE INSPECTIONS

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

If your project requires an Inspection

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

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

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

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

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

Appendix

Incentive Eligibility Requirements

CUSTOMIZED SOLUTIONS ELIGIBILITY REQUIREMENTS

CUSTOMIZED INCENTIVE RATES

Incentives are calculated by:

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

The following rates apply to new applications received from January 1, 2010 to December 31, 2012:

2011 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 2011 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 INCENTIVES PAYMENT LIMITS

Refer to the Energy Management Solutions Incentives Application or 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 an installed interval or Edison SmartConnect™ meter at each service account site. Customers must meet the registered demand levels, or aggregated load levels, outlined by the program(s) in which they are enrolled or will enroll in. For more information about SCE's DR programs, please visit www.sce.com/drp.

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.

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 reduction¹ 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 electric interval or Edison SmartConnect™ meter, (iii) must be billed on an SCE commercial, industrial, or agricultural electric rate schedule, and (iv) must have purchased and installed a qualifying demand response solution 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.

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.¹ 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.

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.¹

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

How to Submit Your EMS Incentives Application

ONLINE

Option 1



Option 2



Manual Alternative



For technical support or immediate assistance in completing your online applications, please call **(877) 431-7231**.

- Log on to www.sceonlineapp.com**
- Complete the online application(s).**
Enter required information once:
 - Multiple site* form, if needed, auto populated
 - If applying for On-Bill Financing, On-Bill Financing Application** auto-populated (requires signature)
- Sign application(s) using the electronic signature process.**
- Secure all the required signatures on application(s).**
Upload scanned copies of signature pages for application(s).
- Attach** all required supporting documents and push **Submit to SCE**.

Time and Date stamp recorded at the time of electronic submission



- Log on to www.sce.com/applicationandtools**, select "How To Apply." Download the EMS Incentives Application* and if applying for On-Bill Financing, download the On-Bill Financing Application.
- Complete** application(s) manually.
- Secure all the required signatures** on application(s).
- Attach** all required supporting documents and **send** the completed application package to SCE Business Incentives via:
 - Email:** businessincentives@sce.com
or
 - Fax:** 626-633-3243
or
 - Mail:** SCE, P.O. Box 800, Rosemead, CA 91770-0800

Time and Date stamp recorded when the package is received by SCE



Processing of Your Application Begins

* If manually submitting an EMS Incentives Application and an On-Bill Financing Application for multiple site projects, you will need to complete the Multiple Site/Solution Worksheet (Excel) and manually complete the calculations for each site. For the eligible solutions at each site, include estimated incentives, estimated eligible project costs and estimated kW and kWh savings required to complete and submit the On-Bill Financing Applications.

** If manually submitting an On-Bill Financing Application for a multiple site project, you will need to complete a separate On-Bill Financing Application for each project site listed on the EMS Incentives Application.

Application Check List Required Attachments

- Authorized Agents** submitting an EMS Incentives Application on behalf of the Customer must include all appropriate attachments below in addition to a completed **Authorized Participant's Agreement** (learn more at www.sce.com/contractor).
- For all solutions** (Express, Customized and DR Technology Incentive), you must provide all of the following:
 - Spec Sheets**
 - W9 and Tax ID Information** — For the party designated in your application to receive incentives ("Payee").
 - Proof of Payment** — Attach one of the following documents:

Invoice / Store Receipt *Must include:*

- Marked PAID or TERMS or Making Payments
- Total Project Cost with incentives deducted if payment going to Authorized Agent
- Date of Purchase
- If equipment not described in full on receipt, information should be submitted on a separate document

Purchase Order *Must include:*

- Date of Order
- Date of Delivery
- Payment TERMS
- Customer Signature

Lease Agreement *Must include:*

- Lease Start Date
- Length of Lease (3+ years)
- Payment TERMS
- Contains Customer's Signature

- For Customized Solutions and DR Technology Incentive Solutions**, you must also provide:
 - Calculations in the original, editable file format** — Do *not* include hand written calculations. Note: Automatically attached if using the Online Application's Solutions Calculation Wizard. For a list of preferred tools for calculations, go to www.sce.com/customized_solutions.
- Additional attachments required for some solutions** (air compressors for process and pumping, lighting, PC software, etc.). Review the eligibility requirement carefully.

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