



## Contents

<b>REFRIGERATION</b> .....	<b>3</b>
1. Open case to New Reach-in – Low or Medium Temperature .....	3
2. Low Temp Coffin to New High Efficiency Reach-In.....	3
3. Low Temperature Reach-in to High Efficiency Reach-in.....	4
4. Medium Temp Open Case to High Efficiency Open Case .....	4
5. Add Doors to Medium Temp Open Walk-in Cooler .....	4
6. Add Doors to Open Medium Temperature Cases .....	5
7. Anti-Sweat Heater (ASH) Controls.....	5
8. Auto-Closers for Walk-In Coolers or Freezers.....	5
9. ECMs for Walk-In Evaporator Fan .....	5
10. ECMs for Cases.....	6
11. Walk-In Evaporator Fan Controller .....	6
12. Vending Machine Controller .....	6
13. High Efficiency Multiplex Compressor System .....	7
14. Floating Head Pressure Controller .....	7
15. Floating Suction Pressure Controller .....	8
16. Floating Head Pressure on Singles .....	8
17. LED Refrigerated Case Lighting .....	9
<b>STORE LIGHTING</b> .....	<b>10</b>
18. LED High Bay and Low Bay Fixtures .....	10
19. LED Surface, Pendant, Accent, Track and Recessed Downlight .....	10
20. LED Outdoor Area Lighting .....	11
21. LED Troffers.....	12
<b>HVAC</b> .....	<b>14</b>
1. VFDs for HVAC Fans .....	14
2. Demand Control Kitchen Ventilation.....	14
3. Demand Controlled Ventilation (DCV) for Packaged HVAC Units.....	15
4. Enhanced Ventilation Control (EVC) for Packaged HVAC Units .....	15

**FOOD SERVICE..... 16**

- 1. Commercial Convection Oven (Electric) ..... 16
- 2. Commercial Convection Oven (Natural Gas) ..... 16
- 3. Commercial Combination Ovens/Steamers (Electric) ..... 16
- 4. Commercial Combination Ovens/Steamers (Natural Gas)..... 17
- 5. Commercial Steam Cookers (Electric) ..... 17
- 6. Commercial Fryers (Electric)..... 18
- 7. Commercial Ice Machine ..... 18
- 8. Insulated Holding Cabinet ..... 19
- 9. On-Demand Hand Wrap Machine..... 19

**CUSTOM ..... 20**

- 1. Customized Incentives (Non-Lighting) ..... 20
- 2. Customized Incentives (Lighting) ..... 20

# REFRIGERATION

## 1. Open case to New Reach-in – Low or Medium Temperature

Measure Code	Measure Name	Rebate/Unit
R4	Low Temperature Reach-in Display Case	\$175/ln ft
R5	Medium Temperature Reach-in Display Case	\$75/ln ft

### Requirements:

- Must replace an existing, open multi-deck display case with a new reach-in unit with doors, Electronically Commutated Motor (ECM) evaporator fan(s), and LED lighting.
- Medium temperature cases must have no heat in the door. Heat is allowed in the frames of medium temperature cases. Low temperature door and frame heaters combined may not consume more than 50 W/ft of case length.
- New case length must be less than or equal to the original case length.
- This measure is only for cases served by a remote refrigeration system.
- Rebate is based on linear footage of new display case.

### Exclusions:

- Specialty deli cases, custom coolers/freezers and walk-in boxes with reach-in doors do not qualify. Refurbished cases are excluded unless compliant with 2012 Federal Efficiency Standards.

## 2. Low Temp Coffin to New High Efficiency Reach-In

Measure Code	Measure Name	Rebate/Unit
RA06	LT Coffin to Reach-in	\$125/ln ft
HB32	LT Coffin to Reach-in (Wide)	\$125/ln ft

### Requirements:

The measure is applicable to any coffin base case that is less than or equal to code:

- If the display width is less than 3 feet, the coffins must be replaced by RI cases that are 1/4 the total length of the coffins or less.
- If the display width is greater than 3 feet, the coffins must be replaced by RI cases that are 1/3 the total length of the coffins or less.
- The replacement case must use triple pane doors with low/no anti-sweat heat or anti-sweat heat controls.
  - Low/no anti-sweat heat: Total door rail, glass, and frame heater amperage (at 120 volts) cannot exceed 0.925 amps per door.

### Additional details:

- Spec sheet for new cases must be submitted to the Program for review to confirm eligibility

### 3. Low Temperature Reach-in to High Efficiency Reach-in

Measure Code	Measure Name	Rebate/Unit
R87	LT Reach-in to High Efficiency Reach-in	\$75/ln ft

**Requirements:**

- Must replace an existing low temperature self-contained or remote reach-in case with a new high-efficiency remote reach-in case as described in the table below.
- New case length must be equal to, or shorter than, the original case.
- This measure is for remote cases only.
- Rebate is based on linear footage of new display case.

Existing	Replacement
T12 lamps, magnetic ballast	T8 lamps, electronic ballast
Shaded-pole fan motor	ECM fan
Standard glass door	Total door rail, glass, and frame heater amperage (at 120 volts) cannot exceed 0.925 amps per door.

**Exclusions:**

- Cannot be used in conjunction with the “Anti-Sweat Heater (ASH) Controls” rebate.
- Deli cases, custom coolers/freezers and walk-in boxes with reach-in doors do not qualify.

**Additional details:**

- Spec sheet for new cases must be submitted to the Program for review to confirm eligibility

### 4. Medium Temp Open Case to High Efficiency Open Case

Measure Code	Measure Name	Rebate/Unit
RA02	Open MT to High Efficiency Open	\$20/ln ft

**Requirements:**

- Must replace an existing medium temperature open vertical refrigerated display case with a new case of the same style that exceeds federal energy standards through the use of a high efficiency evaporator coil.
- The temperature differential (TD) between the rated evaporator temperature and rated discharge air temperature of the replacement case must be 5°F or less.

**Additional details:**

- Spec sheet for new cases must be submitted to the Program for review to confirm eligibility

### 5. Add Doors to Medium Temp Open Walk-in Cooler

Measure Code	Measure Name	Rebate/Unit
HB30	Add Doors to open walk-in, Energy Efficient Fans Baseline	\$75/ln ft
R160	Add Doors to open walk-in, Standard Fan Baseline	\$75/ln ft

**Requirements:**

- Must replace existing medium temperature open walk-in reach-in refrigerated display case equipped with T8 or less efficient lighting with a medium temperature reach-in door.
- Existing case evaporator coils, fans, and lighting must be removed.
- New reach-in door must have T8 or more efficient lighting and frame heaters, but no anti-sweat heaters.

## 6. Add Doors to Open Medium Temperature Cases

Measure Code	Measure Name	Rebate/Unit
RA01	Add Doors to Open MT Cases	\$50/ln ft
HA09	Add Doors to Open MT Cases, w/ Night Covers Baseline	\$50/ln ft

### Requirements:

- Must add glass doors to an existing open vertical medium temp display case.

### Exclusions:

- Total lighting power in the case after the retrofit may not exceed total lighting power in the existing case.
- No anti-sweat heat may be present in the glass doors or door mounting.

### Additional Details:

- Rebate paid based on linear feet of door installed.
- May qualify for additional incentives through “LEDs in Refrigerated Cases” measure

## 7. Anti-Sweat Heater (ASH) Controls

Measure Code	Measure Name	Rebate/Unit
R7	ASH Controls- Medium Temp	\$25/ln ft
HB31	ASH Controls- Low Temp	\$25/ln ft

### Requirements:

- Must sense the relative humidity in the air surrounding the display case and reduce or turn off the anti-sweat heaters of the glass door (if applicable) and door frame during periods of low humidity.
- Equivalent technologies that reduce or turn off anti-sweat heaters depending on the level of condensation on the inner glass pane may qualify.
- Rebate is based on linear footage of the case.

### Exclusions:

- Cannot be used in conjunction with the “Reach-in Low Temp to High Efficiency Reach -In” rebate.

## 8. Auto-Closers for Walk-In Coolers or Freezers

Measure Code	Measure Name	Rebate/Unit
R79	Auto Closer for Cooler	\$75/closer
R80	Auto Closer for Freezer	\$75/closer

### Requirements:

- The auto-closer should be applied to the main insulated opaque door(s) of a walk-in cooler or freezer.
- The auto-closer must be able to firmly close that door when it is within one inch of full closure.

## 9. ECMs for Walk-In Evaporator Fan

Measure Code	Measure Name	Rebate/Unit
RF004	Walk-in Cooler Evaporator Fan ECM Motor	\$55/motor
RF005	Walk-in Freezer Evaporator Fan ECM Motor	\$55/motor

### Requirements:

- Walk-in coolers and walk-in freezers were manufactured before January 1, 2009.
- Must replace existing standard efficiency shaded-pole or permanent split capacitor evaporator fan motors in refrigerated walk-in coolers and freezers.

### Exclusions:

- Cannot be used in conjunction with the “Evaporative Fan Controller for Walk-In Coolers and Freezers” rebate.

## 10. ECMs for Cases

Measure Code	Measure Name	Rebate/Unit
R76	ECMs for Cases	\$20/motor

### Requirements:

- The existing motor must be a shaded-pole motor in fan coil systems in refrigerated display cases.
- Shaded-pole motors must be replaced by Electronically Commutated Motors (ECM).

## 11. Walk-In Evaporator Fan Controller

Measure Code	Measure Name	Rebate/Unit
R53	Evaporator Fan Controller for Walk-In Coolers and Freezers	\$25/motor

### Requirements:

The following base case conditions must be met:

- The existing evaporator fan must run continuously at full speed, with the exception of defrost cycles.
- The evaporator fan load at full speed operation is at least 1/20 horsepower.
- The evaporator fan motor is single phase.
- The evaporator uses off-cycle or time-off defrost.
- The compressor does not run all the time.

The following measure case conditions must be met:

- Controls must reduce fan power by at least 75% when the compressor cycles off.

## 12. Vending Machine Controller

Measure Code	Measure Name	Rebate/Unit
R86	Vending Machine Controller	\$100/control

### Requirements:

- The controller is intended for refrigerated vending machines containing only non-perishable bottled and canned beverages.
- Controller must include a passive infrared occupancy sensor to turn off fluorescent lights and compressor when surrounding area is unoccupied for 15 minutes or longer.
- Control logic should periodically power up machine at two-hour intervals to maintain product temperature and provide compressor protection.

### 13. High Efficiency Multiplex Compressor System

Measure Code	Measure Name	Rebate/Unit
R107	Air-Cooled Multiplex	\$75/ton
RF001	Air-Cooled Multiplex – Early Retirement	\$560/ton
R108	Evap-Cooled Multiplex	\$150/ton
RF002	Evap-Cooled Multiplex – Early Retirement	\$500/ton

**NOTE: Rebate subject to an engineering review to verify conformity with terms and conditions.**

**Requirements:**

- Must replace stand-alone single compressor system with a high-efficiency multiplex compressor system.
- Must include floating head pressure control to a minimum 70 F set point. Air-cooled condensers must use fan cycling or variable speed fans. Evaporative-cooled condensers must use two-speed or variable-speed fans.
- Only the suction groups that are mechanically subcooled to 50 F will be eligible for rebate

**Exclusion:**

- An additional rebate cannot be claimed for floating head pressure control

**Additional Details:**

- Send completed rebate design checklist form and refrigeration schedule to your Field Energy Analyst or program headquarters to pre-qualify this measure for the rebate.

### 14. Floating Head Pressure Controller

Measure Code	Measure Name	Rebate/Unit
R116	Floating Head Pressure Controller – Air Cooled	\$50/hp
R123	Floating Head Pressure Controller – Evap Cooled	\$50/hp

**Requirements:**

- Existing multiplex refrigeration system must have a fixed saturated condensing temperature (SCT) setpoint
- The new SCT setpoint must be controlled by an ambient following strategy by controlling condenser fans with variable- speed drives or by staging condenser fans.
- For air-cooled condensers, the SCT setpoint must be controlled to follow ambient + 12°F TD or less.
- For evaporative cooled condensers, the SCT setpoint must be controlled to follow ambient wetbulb + 17°F TD or less.
- If back-flood controls are present, the setpoint must be 68°F or less.
- The minimum SCT setpoint must be set to 70°F or less.
- Compressor HP units must be based on connected display cases, walk-in coolers and freezers, and prep areas only.

**Exclusions:**

- New construction installations or any retrofits that trigger the requirement to install floating refrigeration controls.
- Floating suction pressure controls on refrigeration systems with variable speed evaporator fans.
- Subcooler loads and air conditioning loads are not eligible for incentives.

**Additional Details:**

- To qualify for rebate, new hardware must be installed. Projects that only reprogram a controller are not eligible for this rebate.

## 15. Floating Suction Pressure Controller

Measure Code	Measure Name	Rebate/Unit
R119	Floating Suction Pressure Controller	\$10/hp

### Requirements:

- Existing multiplex refrigeration system must operate with fixed suction setpoints.
- The controls must allow the suction pressure to rise to the highest point that can still maintain setpoint temperatures at the critical case on the suction circuit during periods of low fixture loads.
- Compressor HP units must be based on connected display cases, walk-in coolers and freezers, and prep areas only.

### Exclusions:

- New construction installations or any retrofits that trigger the requirement to install floating refrigeration controls.
- Floating suction pressure controls on refrigeration systems with variable speed evaporator fans.
- Subcooler loads and air conditioning loads are not eligible for incentives.

### Additional Details:

- To qualify for rebate, new hardware must be installed. Projects that only reprogram a controller are not eligible for this rebate.

## 16. Floating Head Pressure on Singles

Measure Code	Measure Name	Rebate/Unit
R320-321	Floating Head Pressure on Singles- Condensing Unit	\$100/hp
R322-323	Floating Head Pressure on Singles- Remote Condenser	\$60/hp

### Requirements:

- This measure is applicable only to refrigeration systems having: A single compressor with a 1 HP motor or larger serving a suction group, either in a condensing unit or with a remote condenser, condenser intake air from outside ambient air, and a fixed head pressure control valve.
- Pre-inspection is required.
- Must replace a fixed head pressure control valve with an adjustable head pressure control valve (flood- back control valve) to lower the minimum condensing head pressure.
- The adjustable valve must be set to a pressure equivalent of 70° F saturated temperature or lower and verified with a calibrated pressure gauge or transducer.
- Must install either:
  - A balanced-port valve or electronic expansion valve sized to meet the load requirement at a 70° F condensing temperature.
  - A device to supplement refrigerant feed to each evaporator attached to the condenser.

### Additional Details:

- Rebate is based on a "per compressor motor nameplate HP" basis.
- Documentation of field adjustments made to the installed valve should be provided by the contractor establishing the set points stated above.



## 17. LED Refrigerated Case Lighting

Measure Code	LED Category	Rebate/Unit
LB07	Replacing Single Lamp – <=5 ft/Lamp Base Case	\$2/ln ft
LC09	Replacing Multiple Lamp – <=5ft/Lamp Base Case	\$2/ln ft
LB09	Replacing Single Lamp – >5ft/Lamp Base Case	\$2/ln ft
LC11	Replacing Multiple Lamp – >5ft/Lamp Base Case	\$2/ln ft

### Requirements:

- Horizontal and Vertical Case Lighting must be on the California Statewide Qualified LED Product List. For the most up to date list, visit <http://caioulightingqpl.com>.
- LED lightbar savings are based on the replacement of existing single or multiple lamp fluorescent with a new LED.

### Additional Details:

- The measure quantity, in linear feet, is determined by the LED lamp length.
- The total length of LEDs incented shall not exceed the total length of fluorescent lamps replaced.

# STORE LIGHTING

## 18. LED High Bay and Low Bay Fixtures

### LED High-bay and Low-bay Fixtures, Minor Retrofits with < 70 Fixtures

Measure Code	Measure Description	Rebate/Unit
LD101	40–131 watt	\$25/fixture
LD102	> 131–160 watt	\$30/fixture
LD103	> 160–187 watt	\$55/fixture
LD104	> 187–220 watt	\$75/fixture

### LED High-bay and Low-bay Fixtures, All Retrofits

Measure Code	Measure Description	Rebate/Unit
LD105	> 220–262 watt	\$90/fixture
LD106	> 262–280 watt	\$115/fixture
LD107	> 280–320 watt	\$140/fixture
LD108	> 320–500 watt	\$170/fixture
LD109	> 500–750 watt	\$250/fixture

### LED High-bay and Low-bay Fixtures, Major Retrofits with ≥ 70 Fixtures

Measure Code	Measure Description	Rebate/Unit
LD111	40–131 watt	\$25/fixture
LD112	> 131–160 watt	\$30/fixture
LD113	> 160–220 watt	\$55/fixture

#### Requirements:

- Only interior installations of LED fixtures or retrofit kits on the list of prequalified LED fixtures, available at [pge.com/ledqpl](http://pge.com/ledqpl), in the following DLC product categories, qualify for this rebate:
  - High-bay Luminaires (fixtures and retrofit kits)
  - Low-bay Luminaires (fixtures and retrofit kits)
  - High-bay Aisle Luminaires (fixtures)
- Customer selects the measure code based on the wattage of the replacement fixture.

#### Exclusions:

- Self-ballasted, screw-based lamps or pin-based lamps and LED tube-style lamps do not qualify.
- Products not listed in the high-bay or low-bay categories above, including LED troffers, troffer retrofit kits, linear LED retrofit kits, lamp style retrofit kits, linear ambient luminaires, or any lighting products classified in the outdoor/exterior categories, do not qualify for this rebate.
- Horticultural installations do not qualify for this rebate.
- Exterior installations do not qualify for this rebate.

## 19. LED Surface, Pendant, Accent, Track and Recessed Downlight

Measure Code	Measure Name	Rebate/Unit
LD127-129	LED Surface, Pendant, Track, Accent and Recessed Downlight Fixture: <9W	\$8/fixture
LD130-132	LED Surface, Pendant, Track, Accent and Recessed Downlight Fixture: <12W	\$11/fixture
LD133-138	LED Surface, Pendant, Track, Accent and Recessed Downlight Fixture: <18W	\$13/fixture
LD139-146	LED Surface, Pendant, Track, Accent and Recessed Downlight Fixture: ≥18W	\$15.5/fixture

#### Requirements:

- All LED fixtures must be on the California Statewide Qualified LED Product List. For the most up to date list, visit <http://caioulightingqpl.com/>
- The LEDs must replace reflector-type incandescent, PAR halogen, or PAR halogen IR fixtures as a fully integrated LED luminaire (complete retrofit kit).
- Rebates are based on a one-for-one replacement of fixtures up to 100 watts.
- LED screw-in lamps are not eligible under these measures.

## 20. LED Outdoor Area Lighting

### Outdoor Pole/Arm-Mounted Area Lighting

Measure Code	Measure Name	Rebate/Unit
LT297	LED Outdoor Pole/Arm-Mounted Area Lighting: Install 30 - 45 W Fixture	\$30/lamp
LT298	LED Outdoor Pole/Arm-Mounted Area Lighting: Install 46 - 68 W Fixture	\$35/lamp
LT299	LED Outdoor Pole/Arm-Mounted Area Lighting: Install 69 - 90 W Fixture	\$40/lamp
LT300	LED Outdoor Pole/Arm-Mounted Area Lighting: Install 91 - 107 W Fixture	\$45/lamp
LT301	LED Outdoor Pole/Arm-Mounted Area Lighting: Install 108 - 146 W Fixture	\$55/lamp
LT302	LED Outdoor Pole/Arm-Mounted Area Lighting: Install 147 - 235 W Fixture	\$60/lamp
LT303	LED Outdoor Pole/Arm-Mounted Area Lighting: Install 236 - 390 W Fixture	\$65/lamp
LT304	LED Outdoor Pole/Arm-Mounted Area Lighting: Install 391 - 571 W Fixture	\$70/lamp

### LED Outdoor Parking Garage Lighting

Measure Code	Measure Name	Rebate/Unit
LT305	LED Outdoor Parking Garage Lighting: Install 0 - 38 Watts Fixture	\$15/lamp
LT306	LED Outdoor Parking Garage Lighting: Install 39 - 56 Watts Fixture	\$20/lamp
LT307	LED Outdoor Parking Garage Lighting: Install 57 - 88 Watts Fixture	\$25/lamp
LT308	LED Outdoor Parking Garage Lighting: Install 89 - 113 Watts Fixture	\$30/lamp

### LED Outdoor Wall-Mounted Area Lighting

Measure Code	Measure Name	Rebate/Unit
LT309	LED Outdoor Wall-Mounted Area Lighting: Install 0 - 25 Watts Fixture	\$25/lamp
LT310	LED Outdoor Wall-Mounted Area Lighting: Install 26 - 39 Watts Fixture	\$30/lamp
LT311	LED Outdoor Wall-Mounted Area Lighting: Install 40 - 58 Watts Fixture	\$35/lamp
LT312	LED Outdoor Wall-Mounted Area Lighting: Install 59 - 78 Watts Fixture	\$40/lamp
LT313	LED Outdoor Wall-Mounted Area Lighting: Install 79 - 97 Watts Fixture	\$45/lamp
LT314	LED Outdoor Wall-Mounted Area Lighting: Install 98 - 126 Watts Fixture	\$60/lamp
LT315	LED Outdoor Wall-Mounted Area Lighting: Install 127 - 203 Watts Fixture	\$70/lamp
LT316	LED Outdoor Wall-Mounted Area Lighting: Install 204 - 337 Watts Fixture	\$90/lamp
LT317	LED Outdoor Wall-Mounted Area Lighting: Install 338 - 493 Watts Fixture	\$105/lamp

### LED Outdoor Fuel Pump Canopy Lighting

Measure Code	Measure Name	Rebate/Unit
LT318	LED Outdoor Fuel Pump Canopy Lighting: Install 0 - 19 Watts Fixture	\$15/lamp
LT319	LED Outdoor Fuel Pump Canopy Lighting: Install 20 - 29 Watts Fixture	\$20/lamp
LT320	LED Outdoor Fuel Pump Canopy Lighting: Install 30 - 46 Watts Fixture	\$25/lamp
LT321	LED Outdoor Fuel Pump Canopy Lighting: Install 47 - 59 Watts Fixture	\$30/lamp
LT322	LED Outdoor Fuel Pump Canopy Lighting: Install 60 - 73 Watts Fixture	\$35/lamp
LT323	LED Outdoor Fuel Pump Canopy Lighting: Install 74 - 99 Watts Fixture	\$40/lamp
LT324	LED Outdoor Fuel Pump Canopy Lighting: Install 100 - 153 Watts Fixture	\$45/lamp

#### Requirements:

- Only LED fixtures or retrofit kits on the list of prequalified LED fixtures available at <http://caioulightingqpl.com/> in the following categories qualify for this rebate:
  - Architectural Flood and Spot Luminaires
  - Landscape/Accent Flood and Spot Luminaires
  - Outdoor Pole/Arm-mounted Area and Roadway Luminaires (fixtures and retrofit kits)
  - Large Outdoor Pole/Arm-mounted Area and Roadway Luminaires (retrofit kits)
  - Outdoor Pole/Arm-mounted Decorative Luminaires (fixtures and retrofit kits)
  - Outdoor Wall-mounted Area Luminaires (fixtures and retrofit kits)
  - Bollards
  - Fuel Pump Canopy Luminaires (fixtures and retrofit kits)
  - Parking Garage Luminaires (fixtures and retrofit kits)
- Total installed wattage within each fixture category must be less than the original equipment.

#### Exclusions:

- Self-ballasted, screw-based lamps do not qualify.

## 21. LED Troffers

### 2x4 LED New Luminaire for Ambient Interior Commercial Spaces

Measure Code	Measure Name	Rebate/Unit
LT148	≥ 125 LPW and < 140 LPW	\$5/kilolumen (max \$22.50/fixture)

### 2x2 LED New Luminaire for Ambient Interior Commercial Spaces

Measure Code	Measure Name	Rebate/Unit
LT150	≥ 125 LPW and < 140 LPW	\$4.25/kilolumen (max \$19.13/fixture)

### 1x4 LED New Luminaire for Ambient Interior Commercial Spaces

Measure Code	Measure Name	Rebate/Unit
LT152	≥ 125 LPW and < 140 LPW	\$5/kilolumen (max \$22.50 /fixture)

### 2x4 LED Integrated Retrofit Kit for Ambient Interior Commercial Spaces

Measure Code	Measure Name	Rebate/Unit
LT154	≥ 125 LPW and < 140 LPW	\$5/kilolumen (max \$22.50/fixture)

### 2x2 LED Integrated Retrofit Kit for Ambient Interior Commercial Spaces

Measure Code	Measure Name	Rebate/Unit
LT156	≥ 125 LPW and < 140 LPW	\$4.25/kilolumen (max \$19.13/fixture)

### 1x4 LED Integrated Retrofit Kit for Ambient Interior Commercial Spaces

Measure Code	Measure Name	Rebate/Unit
LT158	≥ 125 LPW and < 140 LPW	\$5/kilolumen (max \$22.50/fixture)

All LED Troffer and Integrated Troffer Retrofit Kit rebates are capped at 4.5 kilolumens per fixture.

#### Requirements:

- Applications received must include products in the below qualifying categories and must be listed as DesignLights Consortium (DLC)-premium classification to qualify for this rebate.
- Only LED troffer fixtures or integrated troffer retrofit kits on the list of prequalified LED fixtures, available at [pge.com/ledqpl](http://pge.com/ledqpl), in the following DLC product categories, qualify for this rebate:
  - Troffer, 2x2 Luminaires for Ambient Lighting of Interior Commercial Spaces (indoor luminaires)
  - Troffer, 1x4 Luminaires for Ambient Lighting of Interior Commercial Spaces (indoor luminaires)
  - Troffer, 2x4 Luminaires for Ambient Lighting of Interior Commercial Spaces (indoor luminaires)
  - Troffer, 2x2 Luminaires for Integrated Retrofit Kits (indoor retrofit kit)
  - Troffer, 1x4 Luminaires for Integrated Retrofit Kits (indoor retrofit kit)
  - Troffer, 2x4 Luminaires for Integrated Retrofit Kits (indoor retrofit kit)
- DLC-listed initial light output must be ≥ 2,200 lumens (lm) and ≤ 6,500 lm to qualify for this rebate.

#### Exclusions:

- Other fixture configurations, including LED troffer linear retrofit kits, linear ambient luminaires (direct/indirect) or external driver lamp-style retrofit kits (Underwriters Laboratories, Type C), do not qualify for this rebate. These configurations will be considered under the Customized Retrofit Program.
- Exterior or high/low-bay installations of these products do not qualify for this rebate.
- Products in the above listed categories < 2,200 lm or > 6,500 lm do not qualify for this rebate and will be considered under the Customized Retrofit Program.

#### Additional Details:

Customer selects the measure code based on the efficacy in lumens per watt (LPW) of the replacement fixture.

**How to calculate a rebate:**

LED Troffer and Integrated Troffer Retrofit rebates are offered on a per kilolumen (KLM)— 1,000 lumens—basis, rather than a per fixture basis. The rebate increases as the efficacy (LPW) of the fixture or kit increases.

A lumen is the unit of light output: kilolumen = 1,000 lumens.

Efficacy is defined by LPW, or how much light is produced by one watt of energy consumed.

Use the rebate calculator available at [pge.com/ledqpl](http://pge.com/ledqpl) to help determine your total rebate amount.

1. Search for your product using model number, product manufacturer and/or product brand. Alternatively, use the filters for rebate category, product category and/or product metrics to narrow down results and see many options.
2. Once the desired product is found, click on the measure code in the Rebate Information box to be taken to the Rebate Calculator.
3. Enter in the total number of fixtures of a given product that you wish to purchase, and the calculator will calculate the total rebate amount. Enter product and rebate information into the rebate application, as shown.

# HVAC

## 1. VFDs for HVAC Fans

Measure Code	Measure Name	Rebate/Unit
H148	Variable Frequency Drive for HVAC Fans	\$80/hp

### Requirements:

- The variable frequency drive (VFD) must be applied to existing HVAC supply, return or exhaust air fan motors.
- VFD must be applied to HVAC applications in which there is a call for varying air flow demand. Motor speed shall be controlled to automatically adapt to varying air flow demand.
- VFDs must be applied to single-speed motors.
- Any throttling devices, such as inlet vanes or bypass dampers, must be removed or permanently disabled.
- Installation must follow manufacturer's guidelines and instructions.
- Rebates are only applicable for the following building types: secondary schools, community colleges, universities, hospitals, hotels, nursing homes, large offices, multistory large retail. For building types that do not apply, rebates for Advanced Rooftop HVAC Controls may be applicable.
- Installation address must have a commercial electric account with PG&E.

### Exclusions:

- Rebate is not eligible for constant fan speed applications.
- HVAC fan motors less than 3 hp or greater than 100 hp are not eligible for this rebate. For HVAC fan motors less than 3 hp, rebates for Advanced Rooftop HVAC Controls may be applicable.
- Applications where variable speed fans are required by code are not eligible for this rebate.
- Applications on cooling tower fans are not eligible for this rebate.

### Additional Details:

- Place the VFD as close to the motor as possible (ideally less than 15 ft) when applying VFDs to standard duty NEMA motors. Failure to do so may result in premature motor failure.
- Maintain sufficient air flow through the motor to prevent overheating.
- Comply with the practices and requirements of ANSI/IEEE 519-2014.

## 2. Demand Control Kitchen Ventilation

Measure Code	Measure Description	Rebate/Unit
F150	Demand Control Kitchen Ventilation Electric	\$500/exhaust fan hp*

\*horsepower (hp)

### Requirements:

- New commercial kitchen exhaust hood control system must be installed in a new or an existing, dedicated commercial kitchen exhaust hood and make-up air system.
- Control system must be used in conjunction with variable-speed fan motor controls.
- Only preapproved control systems will qualify for this incentive.
- Installation address must have a commercial electric account with PG&E.
- For a list of qualifying food service equipment products, visit [fishnick.com/saveenergy/rebates](http://fishnick.com/saveenergy/rebates).

### 3. Demand Controlled Ventilation (DCV) for Packaged HVAC Units

**Requirements:**

- Customer must pick correct measure code for the type of packaged HVAC unit and enter the HVAC unit’s tons of AC capacity on the rebate application as “Quantity.” See the HVAC unit’s nameplate for cooling capacity.(1 ton AC capacity = 12,000 Btuh)
- Rebate is based on the HVAC unit’s cooling capacity and is maxed at \$1,500 per ADEC, plus CO2 sensor system, or \$600 for CO2 sensor.
- Installation must follow manufacturer’s requirements. Customer must also ensure that controls are installed and operate according to current applicable building and energy codes.
- Customer must install DCV on existing operational packaged HVAC unit.
- Installer and manufacturer must warrant equipment for at least two years for parts and labor. All installed equipment to be new.
- Rebate cannot be combined with ADEC or EVC rebate offers for the same HVAC unit.
- Rebate is only applicable to the following building types: assembly, education (primary/ secondary school, relocatable classrooms, universities), small office, restaurant (fast-food, sit-down), retail, manufacturing (biotech), other.
- Installation address must have a commercial electric account with PG&E.

		Advanced Digital Economizer Controller	Demand Control Ventilation		Enhanced Ventilation Control		
Packaged HVAC Unit Type		ADEC	+CO <sub>2</sub> sensor only to existing ADEC	ADEC + CO <sub>2</sub> Sensor	ADEC + CO <sub>2</sub> sensor + VFD	ADEC + CO <sub>2</sub> sensor +CFD + NEMA Premium Motor	ADEC + CO <sub>2</sub> Sensor + VFD + Permanent Magnet Moto
Rebate Code	Gas Pack	HV294	HV027	HV026	SA07	SA08	SA09
	Heat Pump Unit	HV296	HV031	HV030	SA10	SA11	SA12
	Air Conditioning	HV295	HV029	HV028	No rebate available		
	Variable Air (VAV) Unit	HV297					
Rebate/Unit Measure	\$20/ton (max \$300)	\$40/ton (max \$600)	\$100/ton (max \$1,500)	\$155/ton (max \$3,875)	\$190/ton (max \$4,750)	\$194/ton (max \$4,850)	

### 4. Enhanced Ventilation Control (EVC) for Packaged HVAC Units

**Requirements:**

- Customer must install EVC on existing operational packaged HVAC unit.
- Rebate cannot be combined with ADEC or DCV rebate offers for the same HVAC unit. • Rebate is only applicable to the following building types: assembly, education (primary/ secondary school, universities), small office, restaurant (fast-food, sit-down), retail, manufacturing (biotech), other.
- Installation address must have a commercial electric account with PG&E.

**Exclusions:**

- Variable air volume packaged HVAC units are excluded.

Demand controlled ventilation and enhanced ventilation control do not have specific separate rebates for the VAV category, but VAV is an option on the other three HVAC types: gas pack, heat pump and air conditioning only (e.g., an HVAC unit can be a VAV heat pump).

# Food Service

## 1. Commercial Convection Oven (Electric)

Measure Code	Measure Name	Rebate/Unit
F187	Commercial Convection Oven Electric	\$350/oven

### Requirements:

- Qualifying models must be listed in the California Energy Commission (CEC) database.
- Model must meet ENERGY STAR® Version 2.2 specification or have a tested heavy-load (potato) cooking energy efficiency of 71 percent or more, utilizing ASTM Standard F1496.
- Full-size electric ovens (≤ 5 pans) must have an idle rate of 1.6 kW or less.
- Large full-size (> 5 pans) must have an idle rate of 1.9 kW or less and a heavy-load cooking energy efficiency of 73 percent or more.
- Half-size electric ovens must have an idle rate of 1.0 kW or less.
- Installation address must have a commercial electric account with PG&E.
- For a list of qualifying food service equipment products, visit [fishnick.com/saveenergy/rebates](http://fishnick.com/saveenergy/rebates).

## 2. Commercial Convection Oven (Natural Gas)

Measure Code	Measure Name	Rebate/Unit
F188	Commercial Convection Oven Natural Gas	\$500/oven

### Requirements:

- Qualifying models must be listed in the CEC database.
- Model must meet ENERGY STAR® Version 2.2 specification or have a tested heavy-load (potato) cooking energy efficiency of 46 percent or more, utilizing ASTM Standard F1496.
- Full-size gas ovens (≤ 5 pans) must have an idle rate of 12,000 Btuh or less.
- Large full-size (> 5 pans) must have an idle rate of 13,000 Btuh or less.
- Installation address must have a commercial natural gas account with PG&E.
- For a list of qualifying food service equipment products, visit [fishnick.com/saveenergy/rebates](http://fishnick.com/saveenergy/rebates).

## 3. Commercial Combination Ovens/Steamers (Electric)

Measure Code	Measure Description	Rebate/Unit
HA16	Commercial Combination Oven/Steamer Electric (< 15 pans)	\$1,000/unit
F100	Commercial Combination Oven/Steamer Electric (15–28 pans)	\$1,000/unit
HA19	Commercial Combination Oven/Steamer Electric (> 28 pans)	\$4,000/unit

### Requirements:

- Oven must have a cooking energy efficiency of 50 percent or greater in steam mode and 70 percent cooking energy efficiency or greater in convection mode, utilizing American Society for Testing and Materials (ASTM) Standard F2861.
- Oven must meet the idle energy rate requirements in the accompanying Electric Combination Ovens/Steamers Rebates table, utilizing ASTM Standard F2861.
- Installation address must have a commercial electric account with PG&E.
- For a list of qualifying food service equipment products, visit [fishnick.com/saveenergy/rebates](http://fishnick.com/saveenergy/rebates).

### Exclusions:

- 2/3-size combination ovens are not eligible.
- Electric combination ovens with a pan capacity of < 5 are not eligible.
- For more information about food service, visit PG&E Food Service Technology Center at [fishnick.com](http://fishnick.com).

### Electric Combination Ovens/Steamers Rebates

Pan Capacity	Steam Mode/Idle Energy Rate	Convection Mode/Idle Energy Rate
Less than 15 pans*	5.0 kW or less	2.0 kW or less
15-28 pans*	6.0 kW or less	2.5 kW or less
More than 28 pans*	9.0 kW or less	4.0 kW or less

\*Combination oven/steamer pan capacity is based on the maximum capacity of full-size, 2½-inch deep hotel pans. This must be consistent with the number of pans used to meet the energy-efficiency qualifications for ASTM F2861.



#### 4. Commercial Combination Ovens/Steamers (Natural Gas)

Rebate Code	Measure Description	Rebate/Unit Measure
HA48	Commercial Combination Oven/Steamer Natural Gas (< 15 pans)	\$700/unit
F101	Commercial Combination Oven/Steamer Natural Gas (15–28 pans)	\$1,000/unit
HA49	Commercial Combination Oven/Steamer Natural Gas (> 28 pans)	\$2,000/unit

##### Requirements:

- Oven must have a cooking energy efficiency of 38 percent or greater in steam mode and 44 percent or greater in convection mode, utilizing ASTM Standard F2861.
- Oven must meet the idle energy rate requirements in the accompanying Gas Combination Ovens/Steamers Rebates table, utilizing ASTM Standard F2861.
- Installation address must have a commercial natural gas account with PG&E.
- For a list of qualifying food service equipment products, visit [fishnick.com/saveenergy/rebates](http://fishnick.com/saveenergy/rebates).

##### Exclusions:

- 2/3-size combination ovens are not eligible.
- Gas combination ovens with a pan capacity < 6 are not eligible.

##### Gas Combination Ovens/Steamers Rebates

Pan Capacity	Steam Mode/Idle Energy Rate	Convection Mode/Idle Energy Rate
Less than 15 pans*	15,000 Btuh or less	8,000 Btuh or less
15–28 pans*	18,000 Btuh or less	10,000 Btuh or less
More than 28 pans*	28,000 Btuh or less	16,000 Btuh or less

\*Combination oven/steamer pan capacity is based on the maximum capacity of full-size, 2½-inch deep hotel pans. This must be consistent with the number of pans used to meet the energy-efficiency qualifications for ASTM F2861.

#### 5. Commercial Steam Cookers (Electric)

Measure Code	Measure Description	Rebate/Unit
F108	Commercial Steam Cooker Electric	\$1,250/steamer compartment

##### Requirements:

- Cooker must meet ENERGY STAR® Version 1.2 specification for energy efficiency or must have a tested heavy-load (potato) cooking energy efficiency of 50 percent or greater, utilizing ASTM Standard F1484.
- Installation address must have a commercial electric account with PG&E.
- For a list of qualifying food service equipment products, visit [fishnick.com/saveenergy/rebates](http://fishnick.com/saveenergy/rebates).

## 6. Commercial Fryers (Electric)

Measure Code	Measure Name	Rebate/Unit
F205	Commercial Fryer Electric	\$650/vat

### Requirements:

- Electric fryer (vat width < 18 inches) must meet ENERGY STAR® Version 2.0 specification for energy efficiency or must have a tested heavy-load cooking energy efficiency of 80 percent and an idle energy rate less than or equal to 1,000 watts (W), utilizing ASTM Standard F1361.
- Electric large vat fryer (vat width ≥ 18 inches) must meet ENERGY STAR Version 2.0 specification for energy efficiency or must have a tested heavy-load cooking energy efficiency of 80 percent and an idle energy rate less than or equal to 1,100 W, utilizing ASTM Standard F2144.
- Installation address must have a commercial electric account with PG&E.
- For a list of qualifying food service equipment products, visit [fishnick.com/saveenergy/rebates](http://fishnick.com/saveenergy/rebates).

## 7. Commercial Ice Machine

Measure Code	Measure Name	Rebate/Unit
FS014	Commercial Ice Machine SCU < 110 lbs/day	\$50/unit
FS015	Commercial Ice Machine SCU 110–200 lbs/day	\$75/unit
FS016	Commercial Ice Machine SCU > 200 lbs/day	\$100/unit
FS017	Commercial Ice Machine IMH < 300 lbs/day	\$75/unit
FS018	Commercial Ice Machine IMH 300–800 lbs/day	\$125/unit
FS019	Commercial Ice Machine IMH 801–1,500 lbs/day	\$200/unit
FS020	Commercial Ice Machine IMH >1,500 lbs/day	\$300/unit
FS021	Commercial Ice Machine RCU < 988 lbs/day	\$200/unit
FS022	Commercial Ice Machine RCU ≥ 988 lbs/day	\$300/unit

### Requirements:

- Qualifying models must be listed in the CEC database.
- Qualifying models must meet Qualified Ice Maker specifications listed on [fishnick.com/saveenergy/rebates](http://fishnick.com/saveenergy/rebates).
- Models must meet ENERGY STAR® Version 3.0 specification.
- Models include machines generating ice cubes that are 60 grams (2 oz.) or lighter. It also includes ice makers that flake, crush and fragment ice cubes.
- Rebate amount depends on ice making rate (lbs/day) and equipment type: self-contained units (SCU), ice making heads (IMH), and remote condensing units (RCU).
- Only air-cooled machines qualify for this rebate.
- Customer must purchase the entire Air Conditioning, Heating and Refrigeration Institute (AHRI)-tested ice-making system.
- Remote machines must be purchased with qualifying remote condenser or remote condenser/compressor unit.
- Ice machines must be tested in accordance with the AHRI Standard 810. Visit [ahrinet.org](http://ahrinet.org) to learn more about product information and testing procedures.
- Installation address must have a commercial electric account with PG&E.

## 8. Insulated Holding Cabinet

Measure Code	Measure Name	Rebate/Unit
F110	Full Size insulated holding cabinet	\$750/unit
F111	Half Size insulated holding cabinet	\$200/unit

### Requirements:

- Qualifying models must be listed in the CEC database.
- Cabinet must meet the Consortium for Energy Efficiency (CEE)-Tier 2 specification and must have a tested idle energy rate less than or equal to 20 W per cubic foot utilizing ASTM Standard F2140.
- All measures apply to electric hot-food holding cabinets that are fully insulated and have solid doors.
- Installation address must have a commercial electric account with PG&E.
- For a list of qualifying food service equipment products, visit [fishnick.com/saveenergy/rebates](http://fishnick.com/saveenergy/rebates).

### Exclusions:

- Cook and hold equipment do not qualify.

## 9. On-Demand Hand Wrap Machine

Measure Code	Measure Name	Rebate/Unit
FS009	On-demand Hand Wrap Machine	\$125/unit

### Requirements:

- Must use either a mechanical or optical control system.
- Installation address must have a commercial electric account with PG&E.
- For a list of qualifying food service equipment products, visit [fishnick.com/saveenergy/rebates](http://fishnick.com/saveenergy/rebates).

## CUSTOM

### 1. Customized Incentives (Non-Lighting)

Measure Code	Measure Description	Rebate/kWh	Rebate/kW	Rebate/therm
RFXXX	Basic Non-Lighting	\$0.08	\$150	\$1.00
RFXXX	Targeted Non-Lighting	\$0.15		

**NOTE: Rebate subject to an engineering review to verify conformity with terms and conditions.**

**Requirements:**

- Eligibility and energy savings for Customized Non-Lighting projects are evaluated on an individual basis
- The project must demonstrate energy savings that earn an incentive of at least \$2,000 to be considered for program eligibility
- The project must be inspected and approved by PG&E prior to the removal of the existing equipment/systems and prior to the ordering or the installation of new equipment/systems
- All project documentation, including product cut sheets, refrigeration schedules, mechanical drawings, etc. must be provided to the program

**Exclusions:**

- Customized incentives are not available for measures that would qualify for an incentive through a deemed measure offering

### 2. Customized Incentives (Lighting)

Measure Code	Measure Description	Rebate/kWh	Rebate/kW	Rebate/therm
CLXXX	Basic Lighting (non-LED)	\$0.03	\$150	\$1.00
CLXXX	Targeted Lighting	\$0.08		

**NOTE: Rebate subject to an engineering review to verify conformity with terms and conditions.**

**Requirements:**

- All LED fixtures or retrofit kits must be listed on PG&E's qualified products list. For the most up to date list, visit <http://caioulightingqpl.com>
- For retrofit kits, the existing ballast must be removed and external drivers must be installed
- The project must demonstrate energy savings that earn an incentive of at least \$2,000 to be considered for program eligibility
- The project must be inspected and approved by PG&E prior to the removal of the existing equipment/systems and prior to the ordering or the installation of new equipment/systems
- All project documentation, including product cut sheets, to-scale floor plans, etc. must be provided to the program

**Exclusions:**

- Customized incentives are not available for measures that would qualify for an incentive through a deemed measure offering, including the Distributor LED Replacement Lamps Program
- Plug-n-Play LED "T8 style" replacement lamps do not qualify
- LED retrofit tubes with an internal driver that removes the ballast and connects line voltage directly to the tombstones do not qualify
- Lighting control measures are ineligible for incentives when installed as part of a project that triggers the Title 24 requirements for lighting controls