



BURBANK WATER & POWER
**BUSINESS
REBATES**

REBATE CATALOG

This rebate catalog covers BWP's offered energy efficiency commercial rebates and customer requirements.



**WATER AND
POWER**

Prepared by:



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How to Apply

1. Visit the Burbank Water and Power (BWP) Webpage: <https://www.burbankwaterandpower.com/conservation/commercial-programs-rebates/business-rebates>
2. Review the measure Eligible Product Requirements in this catalog
3. Fill out the rebate application.
4. Submit to BWP within four months of the project completion date. Send the completed application and all documents to sustainability@burbankca.gov, Attn: Business Rebate Program.

Customer Eligibility

Each customer can submit multiple rebate applications annually per premise, but are limited to \$200,000 in total rebates per year. Premises are defined as all of the real property and apparatus employed in a single enterprise on a contiguous parcel of land undivided by a dedicated street, highway, or other public thoroughfare, or a railway. A parcel shall refer to a single lot bound by one continuous property line. This eligibility is per BWP fiscal year, which is from July 1st through June 30th.

- Applicants must have a valid BWP account, and projects must be installed on the account listed on the application form.
- Applications will be accepted on a first-come, first-served basis until funds are exhausted.
- Projects may require pre-installation and post-installation inspection by BWP.
- BWP reserves the right to modify or discontinue this program without prior notice at its discretion.

Measure Application Type Definitions

- Normal Replacement (NR): Replacement of equipment that has reached the end of its effective useful life (EUL).
- Accelerated Replacement (AR): Replacement of equipment with remaining EUL.
- Add-On Equipment (AOE): The addition of equipment or controls to an already fully operational system or piece of equipment.

Measure Rebates

Food Service			
Rebate Code	Measure Description	Measure Application Type	Rebate/Unit
FS01	Electric Combination Oven, >15 Pans	NR	\$1,500/Oven
FS02	Electric Hand-Wrap Machine	NR	\$250/Unit
FS03	Efficient Electric Commercial Convection Oven, Full size	NR	\$950/Oven
FS04	Efficient Electric Commercial Convection Oven, Half size	NR	\$475/Oven
FS05	Commercial Electric Deck Oven	NR	\$2,500/Oven
FS06	Commercial Door-Type Dishwasher	NR	\$250/Unit
FS07	Efficient Electric Commercial Fryer	NR	\$650/Unit
FS08	Efficient Electric Commercial Griddle	NR	\$700/Len-ft
FS-FS01	Commercial Fryer, Fuel Substitution	NR	\$1,500/Unit

Heating, Ventilation, and Air Conditioning (HVAC)			
Rebate Code	Measure Description	Measure Application Type	Rebate/Unit
HVAC01	Package Terminal Air Conditioner, Under 24 kBtu/hr	NR	\$150/Ton
HVAC02	Package Terminal Heat Pump, Under 24 kBtu/hr	NR	\$125/Ton
HVAC03	VFD for Packaged Single-Zone DX HVAC Unit	NR	\$100/Unit
HVAC04	VSD on HVAC fan control	AOE	\$125/Rated-HP
HVAC-FS01	Package Heat Pump, <65kBtuh, Fuel Substitution	NR	\$450/Ton
HVAC-FS02	Split Heat Pump, <65kBtuh, Fuel Substitution	NR	\$350/Ton

Lighting			
Rebate Code	Measure Description	Measure Application Type	Rebate/Unit
LTG01	LED Ambient Fixtures, Luminaire, and Retrofit Kits	NR	\$6/ KiloLumen
LTG02	4-foot LED T8 Lamp	NR	\$1/lamp
LTG03	UL Type B LED mogul base lamp, < 11 W	NR	\$5/lamp
LTG04	UL Type B LED mogul base lamp, 11 W to < 15 W	NR	\$8/lamp
LTG05	UL Type B LED mogul base lamp, 15 W to < 27 W	NR	\$15/lamp
LTG06	UL Type B LED mogul base lamp, 27 W to < 43 W	NR	\$30/lamp
LTG07	UL Type B LED mogul base lamp, 43 W to < 71 W	NR	\$50/lamp
LTG08	UL Type B LED mogul base lamp, 71 W to < 97 W	NR	\$70/lamp
LTG09	UL Type B LED mogul base lamp, 97 W to < 122 W	NR	\$90/lamp
LTG10	UL Type B LED mogul base lamp, 122 W to < 172 W	NR	\$125/lamp
LTG11	UL Type B LED mogul base lamp, 172 W to < 197 W	NR	\$145/lamp
LTG12	UL Type B LED mogul base lamp, 197 W to < 217 W	NR	\$160/lamp

Refrigeration			
Rebate Code	Measure Description	Measure Application Type	Rebate/Unit
RFG01	Display Case Anti-Sweat Heater, Freezer	AOE	\$60/Len-ft
RFG02	Display Case Anti-Sweat Heater, Cooler	AOE	\$30/Len-ft

<u>RFG03</u>	ECM Retrofit for a Walk-in Cooler or Freezer	AR	\$125/Unit
<u>RFG04</u>	Fan Motor Retrofit for Refrigerated Display Case	AR	\$50/Unit
<u>RFG05</u>	Floating Head Pressure Controls	AOE	\$80/Cap-Tons
<u>RFG06</u>	New Display Case with Doors, Freezer	NR	\$300/Len-ft
<u>RFG07</u>	New Display Case with Doors, Cooler	NR	\$500/Len-ft
<u>RFG08</u>	Medium-Temperature Case Doors, with LEDs	AOE	\$275/Len-ft
<u>RFG09</u>	Medium-Temperature Case Doors, without LEDs	AOE	\$250/Len-ft

Water Heating			
Rebate Code	Measure Description	Measure Application Type	Rebate/Unit
<u>WH01</u>	Heat Pump Water Heater, ≥ 45 to ≤ 55 gallons	NR	\$1,000/Unit
<u>WH02</u>	Heat Pump Water Heater, >55 gallons	NR	\$400/Unit
<u>WH-FS01</u>	Heat Pump Water Heater, ≥ 45 to ≤ 75 gallons, Fuel Substitution	NR	\$1,000/Unit
<u>WH-FS02</u>	Heat Pump Water Heater, >75 gallons, Fuel Substitution	NR	\$700/Unit
<u>WH-FS03</u>	Large Commercial Heat Pump Water Heater, Fuel Substitution	NR	\$60/CapOut-kBtuh

Food Service

FS01: Electric Combination Oven, >15 Pans

The measure applies to the replacement of a standard electric oven with an electric combination oven of the same size. An electric commercial combination oven offers more functions compared to standard ovens such as steaming, proofing, and reheating food. The measure considers the idle energy rate, cooking efficiency rate, and production capacity of a combination oven.

ELIGIBLE PRODUCT REQUIREMENTS

- Steam Mode Cooking Efficiency $\geq 55\%$
- Convection Mode Cooking Efficiency $\geq 78\%$
- Steam Mode Idle Rate
 - Electric Oven 15-28 Pans $\leq 4.364 \text{ kW}$
 - Electric Oven >28 Pans $\leq 5.96 \text{ kW}$
- Convection Mode Idle Rate
 - Electric Oven 15-28 Pans $\leq 2.674 \text{ kW}$
 - Electric Oven >28 Pans $\leq 3.67 \text{ kW}$
- Be listed on the Food Service Technology Center (FSTC) qualified product list.
(<https://caenergywise.com/instant-REBATES/qpl/>)

REBATES

Rebate Code	Measure Description	Measure Application Type	Rebate/Unit
FS01	Electric Combination Oven, >15 Pans	NR	\$1,500/Oven

FS02: Electric Hand-Wrap Machine

The measure applies to the replacement of an “always-on” conventional hand-wrap machine with an on-demand hand-wrap machine that has an ON/OFF controller, with OFF as its default heating platform. The technology offers two types of controllers:

- Mechanical system: applies pressure to the heating platform to engage a switch which turns on the heating platform and turns off when disengaged.
- Optical control system: Uses an optical eye to detect an item placed on the heating platform. When an item is placed on the heating platform, a light

reflects into the eye which turns on the heating platform and turns off when the item comes off the platform.

ELIGIBLE PRODUCT REQUIREMENTS

- New on-demand hand-wrap machine that uses either a mechanical or optical control system.
- Be listed on the Food Service Technology Center (FSTC) qualified product list (<https://caenergywise.com/instant-REBATES/qpl/>).

RESTRICTIONS AND EXCLUSIONS

- Cannot apply used or rebuilt hand-wrap machines to measure.

REBATES

Rebate Code	Measure Description	Measure Application Type	Rebate/Unit
FS02	Electric Hand-Wrap Machine	NR	\$250/Unit

FS03: Efficient Electric Commercial Convection Oven, Full size

The measure applies to the replacement of standard electric oven, full size, with a more efficient, ENERGY-STAR qualified, full size, electric commercial convention oven.

ELIGIBLE PRODUCT REQUIREMENTS

- Oven type: Full-size \geq 5 pan must have a maximum idle energy rate of 1.4 kW and a minimum cooking energy efficiency of 76%.
- Oven type: Full-size $<$ 5 pan must have maximum idle energy of 1.0 kW and minimum cooking energy efficiency of 76%.

For more information related to efficient electric commercial convention oven requirements, reference the source below:

ENERGY STAR. 2023. "ENERGY STAR Program Requirements Product Specification for Commercial Ovens - Version 3.0." Effective January 12, 2023. [Download \(pdf, 381.9 KB\)](#)

RESTRICTIONS AND EXCLUSIONS

- Cannot apply used or rebuilt equipment to measure.

REBATES

Rebate Code	Measure Description	Measure Application Type	Rebate/Unit
FS03	Efficient Electric Commercial Convection Oven, Full size	NR	\$950/Oven

FS04: Efficient Electric Commercial Convection Oven, Half size

The measure applies to the replacement of standard electric oven, half size, with a more efficient, ENERGY-STAR qualified, half size, electric commercial convention oven.

ELIGIBLE PRODUCT REQUIREMENTS

- Oven type: Half-size must have a maximum idle energy rate of 1.0kW and a minimum cooking energy efficiency of 71%.

For more information related to efficient electric commercial convention oven requirements, reference the source below:

ENERGY STAR. 2023. "ENERGY STAR Program Requirements Product Specification for Commercial Ovens - Version 3.0." Effective January 12, 2023. [Download \(pdf, 381.9 KB\)](#)

RESTRICTIONS AND EXCLUSIONS

- Cannot apply used or rebuilt equipment to measure.

REBATES

Rebate Code	Measure Description	Measure Application Type	Rebate/Unit
FS04	Efficient Electric Commercial Convection Oven, Half size	NR	\$475/Oven

FS05: Commercial Electric Deck Oven

The measure applies to the replacement of a standard-efficiency oven with an efficient, commercial electric deck oven that cooks food product within a heated chamber.

ELIGIBLE PRODUCT REQUIREMENTS

- Have a heavy load cooking efficiency of 60% or greater.
- Have an idle energy rate of 1.3kW or less.

- Be listed on the Food Service Technology Center (FSTC) qualified product list. (<https://caenergywise.com/instant-REBATES/qpl/>)

RESTRICTIONS AND EXCLUSIONS

- Cannot apply used or rebuilt deck oven equipment to measure.
- Cannot apply replacement of gas deck ovens.

REBATES

Rebate Code	Measure Description	Measure Application Type	Rebate/Unit
FS05	Commercial Electric Deck Oven	NR	\$2,500/Oven

FS06: Commercial Door-Type Dishwasher

The measure applies for the replacement of a standard commercial dishwasher with an ENERGY STAR-qualified high- or low-temperature door-type commercial dishwasher. The Eligible Products Requirements below specify for a single tank, door type dishwashers defined as a stationary rack machine. This dishwasher type uses a standard 20" X 20" dish rack and a door that raises the rack into the wash chamber.

ELIGIBLE PRODUCT REQUIREMENTS

- Efficient commercial dishwasher, high temp:
 - Maximum water consumption ≤ 0.89 gal/rack
 - Maximum Washing Energy 0.35 kWh/rack,
 - Maximum Idle Energy Rate ≤ 0.55 kW
- Efficient commercial dishwasher, low temp:
 - Maximum water consumption ≤ 1.18 gal/rack
 - Maximum Washing Energy 0.15 kWh/rack,
 - Maximum Idle Energy Rate ≤ 0.30 kW

For more information related to high- and low-temperature, stationary, single tank door type dishwasher requirements, reference the source below:

ENERGY STAR. 2020. "ENERGY STAR Program Requirements for Commercial Dishwashers. Eligibility Criteria (October 2020) Version 3.0." [Download \(pdf, 461.6 KB\)](#)

REBATES

Rebate Code	Measure Description	Measure Application Type	Rebate/Unit
FS06	Commercial Door-Type Dishwasher	NR	\$250/Unit

FS07: Efficient Electric Commercial Fryer

The measure applies to the replacement of a standard, open, deep-fat electric fryers with an ENERGY STAR-qualified efficient electric commercial fryer.

ELIGIBLE PRODUCT REQUIREMENTS

- For standard electric fryer types, heavy-load cooking efficiency $\geq 83\%$, and an idle energy rate $\leq 800W$.
- For large vat electric fryer types, heavy-load cooking efficiency $\geq 80\%$, and an idle energy rate $\leq 1,100W$.

RESTRICTIONS AND EXCLUSIONS

- Cannot apply used or rebuilt equipment to measure.
- Fryers with vats less than 12 inches wide, or greater than 24 inches wide.

For more information related to electric commercial fryer requirements, reference the source below:

ENERGY STAR. 2015. "ENERGY STAR® Program ELIGIBLE PRODUCT REQUIREMENTS for Commercial Fryers: Version 3.0." Effective October 1, 2016. [Download \(pdf, 57.0 KB\)](#)

REBATES

Rebate Code	Measure Description	Measure Application Type	Rebate/Unit
FS07	Efficient Electric Commercial Fryer	NR	\$650/Unit

FS08: Efficient Electric Commercial Griddle

The measure applies to the replacement of single and double-sided commercial electric griddles with an ENERGY STAR-qualified efficient electric commercial griddle.

ELIGIBLE PRODUCT REQUIREMENTS

- Have heavy-load cooking efficiency $\geq 70\%$.
- Have normalized idle energy rate $\leq 355W/ft^2$.

RESTRICTIONS AND EXCLUSIONS

- Cannot apply used or rebuilt equipment to the measure.
- Griddles with manual controls and fry-top ranges do not meet measure requirements.

For more information related to commercial griddle requirements, reference the source below:

ENERGY STAR. 2011. "ENERGY STAR® Program ELIGIBLE PRODUCT REQUIREMENTS for Commercial Griddles: Version 1.2." Effective January 1, 2011. [Download \(pdf, 176.5 KB\)](#)

REBATES

Rebate Code	Measure Description	Measure Application Type	Rebate/Unit
FS08	Efficient Electric Commercial Griddle	NR	\$700/Len-ft

Food Service Fuel Substitution

FS-FS01: Commercial Fryer

The measure applies to the replacement of a standard, commercial gas fryer with an ENERGY STAR-qualified efficient electric commercial fryer.

ELIGIBLE PRODUCT REQUIREMENTS

- Electric fryer must be new and replace existing gas equipment.
- For standard electric fryer types, heavy-load cooking efficiency $\geq 83\%$, and an idle energy rate $\leq 800W$.
- For large vat electric fryer types, heavy-load cooking efficiency $\geq 80\%$, and an idle energy rate $\leq 1,100W$.
- Base equipment must be disposed of.

RESTRICTIONS AND EXCLUSIONS

- Cannot replace an existing electric fryer.
- Fryers with vats less than 12 inches wide, or greater than 24 inches wide.

For more information related to electric commercial fryer requirements, reference the source below:

ENERGY STAR. 2015. "ENERGY STAR® Program Requirements for Commercial Fryers: Version 3.0." Effective October 1, 2016. [Download \(pdf, 57.0 KB\)](#)

REBATES

Rebate Code	Measure Description	Measure Application Type	Rebate/Unit
FS-FS01	Commercial Fryer, Fuel Substitution	NR	\$1,500/Unit

Heating, Ventilation, and Air Conditioning (HVAC)

HVAC01: Package Terminal Air Conditioner, Under 24 kBtu/hr

The measure applies to the replacement of a PTAC less than 24 kBtu/hr with a higher energy efficiency rating (EER) PTAC.

ELIGIBLE PRODUCT REQUIREMENTS

- For capacity range $\leq 7,000 \frac{Btu}{hr}$, the minimum measure case efficiency is 11.29 EER.
- For capacity range $> 7,000 \frac{Btu}{hr}$ and $\leq 15,000 \frac{Btu}{hr}$, the minimum measure case efficiency is 10.27 EER.
- For capacity range $> 15,000 \frac{Btu}{hr}$, the minimum measure case efficiency is 9.25 EER.

RESTRICTIONS AND EXCLUSIONS

- Ductless mini-split AC units.
- Units with gas heating.
- Refrigerants with global warming potential (GWP) limit of 750 or greater.

REBATES

Rebate Code	Measure Description	Measure Application Type	Rebate/Unit
HVAC01	Package Terminal Air Conditioner, Under 24 kBtu/hr	NR	\$150/Ton

HVAC02: Package Terminal Heat Pump, Under 24 kBtu/hr

The measure applies to the replacement of a PTHP less than 24 kBtu/hr with a higher EER and coefficient of performance (COP).

ELIGIBLE PRODUCT REQUIREMENTS

- For capacity range $\leq 7,000 \frac{Btu}{hr}$, the minimum measure case efficiency is 11.17 EER and 3.26 COP must be 3.26.
- For capacity range $> 7,000 \frac{Btu}{hr}$ and $\leq 15,000 \frac{Btu}{hr}$, the minimum measure case efficiency is 10.15 EER and 3.13 COP.
- For capacity range $> 15,000 \frac{Btu}{hr}$, the minimum measure case efficiency is 9.13 EER and 3.01 COP.

RESTRICTIONS AND EXCLUSIONS

- Ductless mini-split HP units.
- Refrigerants with global warming potential (GWP) limit of 750 or greater.

REBATES

Rebate Code	Measure Description	Measure Application Type	Rebate/Unit
HVAC02	Package Terminal Heat Pump, Under 24 kBtu/hr	NR	\$125/Ton

HVAC03: VFD for Packaged Single-Zone DX HVAC Unit

The retrofit measure applies to the addition of a variable frequency drive (VFD) to an existing packaged single-zone direct expansion (DX) with an existing economizer.

ELIGIBLE PRODUCT REQUIREMENTS

- The existing system must have a constant volume supply fan.
- The existing system must have an operable airside economizer installed. Maintenance and repairs to economizer should be completed prior to or in parallel with measure.
- Installed VFD must operate to vary motor speed.

RESTRICTIONS AND EXCLUSIONS

- Existing two-speed, multi-speed, or variable speed fans.
- Systems that serve process or refrigeration loads.

REBATES

Rebate Code	Measure Description	Measure Application Type	Rebate/Unit
HVAC03	VFD for Packaged Single-Zone DX HVAC Unit	NR	\$100/Unit

HVAC04: VSD on HVAC Fan Control

The retrofit measure applies to the addition of a variable speed drive (VSD) and necessary controls on the existing constant speed HVAC supply or return fan in a VAV handling unit.

ELIGIBLE PRODUCT REQUIREMENTS

- The fan motor rated HP must be $\leq 100HP$.
- The existing fan motor must operate at constant speed.
- The VSD must be applied to an existing HVAC supply or return air system.
- Any other throttling devices, such as inlet vanes or bypass dampers, and throttling valves, must be removed or permanently disabled.
- If the existing system needs replacement because it cannot accommodate a VSD (i.e. not inverter rated), then customer may install a new fan motor to work with the VSD.

RESTRICTIONS AND EXCLUSIONS

- Cannot apply measure for the replacement of multiple-speed or variable speed motors (VSM).
- Exhaust fans.
- Constant air volume (CAV) system installations.

REBATES

Rebate Code	Measure Description	Measure Application Type	Rebate/Unit
HVAC04	VSD on HVAC Fan Control	AOE	\$125/Rated-HP

HVAC Fuel Substitution

HVAC-FS01: Package Heat Pump, < 65kBtuh

The measure applies to the replacement of a gas-electric packaged AC, less than 65 kBtu/hr, with an efficient, all-electric, heat pump.

ELIGIBLE PRODUCT REQUIREMENTS

- Replace an existing less efficient packaged AC and natural gas furnace.
- SEER rated ≥ 16 .
- Remove and dispose (do not renovate or sell) the existing furnace equipment.

RESTRICTIONS AND EXCLUSIONS

- This measure is not eligible when there is no natural gas to electricity fuel substitution for space heating and/or when the measures include a non-regulated fuel
- Measures are installed in new areas of an existing building.
- Measures are installed in a major renovation of an existing building.
- Measures are installed in capacity expansions of existing systems to serve existing and/or new load retrofits that require a new energy service.

REBATES

Rebate Code	Measure Description	Measure Application Type	Rebate/Unit
HVAC-FS01	Package Heat Pump, <65kBtuh	NR	\$450/Ton

HVAC-FS02: Split Heat Pump, < 65kBtuh

The measure applies to the replacement of a gas-electric split AC, less than 65 kBtu/hr, with an efficient, all-electric, heat pump.

ELIGIBLE PRODUCT REQUIREMENTS

- Replace an existing less efficient split AC and natural gas furnace.
- Remove and dispose (do not renovate or sell) the existing furnace equipment.
- SEER-rated ≥ 16 .

RESTRICTIONS AND EXCLUSIONS

- This measure is not eligible when there is no natural gas to electricity fuel substitution for space heating and/or when the measures include a non-regulated fuel
- Measures are installed in new areas of an existing building.
- Measures are installed in a major renovation of an existing building.
- Measures are installed in capacity expansions of existing systems to serve existing and/or new load retrofits that require a new energy service.

REBATES

Rebate Code	Measure Description	Measure Application Type	Rebate/Unit
HVAC-FS02	Split Heat Pump, < 65kBtuh	NR	\$350/Ton

Lighting

LTG01: LED Ambient Fixtures, Luminaire, and Retrofit Kits

The measure applies to the replacement of linear fluorescent products with new interior LED ambient fixtures, luminaire, and retrofit kits listed below:

- LED troffer or integrated retrofit kit (sizes 2x4, 2x2, and 1x4 ft)
- LED Direct Ambient retrofit kit (sizes, 2', 4', and 8' ft.)
- LED Direct/Indirect Linear Ambient (sizes, 2', 4', and 8' ft.)
- LED Luminaire (sizes 2x4, 2x2, and 1x4 ft)

ELIGIBLE PRODUCT REQUIREMENTS

- Interior LED troffer or integrated retrofit kits must have an efficacy ≥ 125 *Lumens per Watt (LPW)*.
- Interior LED Direct Ambient retrofit kit must have an efficacy ≥ 125 *LPW*.
- Interior LED Direct/Indirect Linear Ambient must have an efficacy ≥ 125 *LPW*.
- Interior LED Luminaire must have an efficacy ≥ 125 *LPW*.
- The product must meet the technical requirements listed on the current DesignLights Consortium (DLC) qualified product list (QPL) for its corresponding product category ([DLC Qualified Products Lists - DesignLights](#)).

RESTRICTIONS AND EXCLUSIONS

- Any de-listed product on the DLC QPL.
- “Specialty” fixtures under the DLC QPL “primary use designations.”
- LED troffer kits or external driver lamp-style retrofit kits (UL Listing Type C).
- Exterior or high/low-bay installations of these products.
- Eligible products listed in the measure description less than 2,200 lumens or greater than 6,500 lumens.
- Screw-based lamps and linear replacement lamps.

REBATES

Rebate Code	Measure Description	Measure Application Type	Rebate/Unit
LTG01	LED Ambient Fixtures, Luminaire, and Retrofit Kits	NR	\$6/kilolumen

LTG02: 4-foot LED T8 Lamp

The measure applies to the replacement of 4-foot linear fluorescent T8 with a new 4-foot LED T8 lamp, UL Type A, B, or UL Type A+B.

ELIGIBLE PRODUCT REQUIREMENTS

- The LED tube must be 4-foot and designated as UL Type A, B, or UL Type A+B.
- The product must meet the technical requirements listed on the current DesignLights Consortium (DLC) qualified product list (QPL) for its corresponding product category (<https://www.designlights.org/search/>).
- LED tube must be compatible with the installed system lighting controls.
- The LED T8 UL Type A lamp must follow the specification requirements below:
 - System efficacy: 145 *LPW*
 - Color Rendering Index (CRI) ≥ 80
 - Correlated Color Temperature (CCT) between 2,200 K – 6,500 K.
 - Power Factor ≥ 0.9
 - Total Harmonic Distortion $\leq 20\%$
 - Lumen Maintenance $L_{70} \geq 50,000$
 - Minimum Warranty of 5 years
- For UL Type A configuration, LED T8 Lamp specification sheet must list all of the compatible ballast model numbers to ensure proper operation of the measure. The LED T8 Lamp must be installed in a fixture using a ballast found on its compatible ballast list.
- For UL Type A configuration, only a product that can operate from an electronic instant start ballast is eligible.
- The LED T8 UL Type B lamp must follow the specification requirements below:
 - System efficacy: 160 *LPW*

- Color Rendering Index (CRI) ≥ 80
- Correlated Color Temperature (CCT) between 2,200 K – 6,500 K.
- Power Factor ≥ 0.9
- Total Harmonic Distortion $\leq 20\%$
- Lumen Maintenance $L_{70} \geq 50,000$
- Minimum Warranty of 5 years

RESTRICTIONS AND EXCLUSIONS

- De-lamping

REBATES

Rebate Code	Measure Description	Measure Application Type	Rebate/Unit
LTG02	4-foot LED T8 Lamp	NR	\$1/lamp

LTG03-LGTG12: LED Mogul Base Lamp Retrofits for Outdoor Area/Pole and Decorative Fixtures

The measure applies to the replacement of outdoor area/pole and decorative fixtures with high efficiency DLC listed UL Type B mogul base screw-in LED lamps.

ELIGIBLE PRODUCT REQUIREMENTS

- May replace any existing non-LED or LED mogul-based screw-in lamps.
- Minimum lamp efficacy of 130 LPW. This minimum qualifying efficacy exceeds the 75th percentile of DLC qualified products within each category.
- LED lamp must use a mogul base.
- The LED lamp must be DLC qualified ((<https://www.designlights.org/search/>) under either:
 - Outdoor Pole/Arm-mounted area and roadway luminaires lamp replacement
 - Outdoor Pole/Arm-mounted decorative luminaires lamp replacement

RESTRICTIONS AND EXCLUSIONS

- This measure is not eligible for dwelling unit outdoor lighting for residential single-family, multifamily, and mobile home building types.

- “Abandon-in-place” demolition of existing ballasts is not eligible.
- The replacement of integrated LED fixtures or LED retrofit kits is not eligible for any measure application type.
- Event lighting that operates less than dusk to dawn is not eligible.
- LED lamps in the DLC “Very High Output” general application category are not eligible for this measure package.

REBATES

Rebate Code	Measure Description	Measure Application Type	Rebate/Unit
LTG03	UL Type B LED mogul base lamp, < 11 W	NR	\$5/lamp
LTG04	UL Type B LED mogul base lamp, 11 W to < 15 W	NR	\$8/lamp
LTG05	UL Type B LED mogul base lamp, 15 W to < 27 W	NR	\$15/lamp
LTG06	UL Type B LED mogul base lamp, 27 W to < 43 W	NR	\$30/lamp
LTG07	UL Type B LED mogul base lamp, 43 W to < 71 W	NR	\$50/lamp
LTG08	UL Type B LED mogul base lamp, 71 W to < 97 W	NR	\$70/lamp
LTG09	UL Type B LED mogul base lamp, 97 W to < 122 W	NR	\$90/lamp
LTG10	UL Type B LED mogul base lamp, 122 W to < 172 W	NR	\$125/lamp
LTG11	UL Type B LED mogul base lamp, 172 W to < 197 W	NR	\$145/lamp
LTG12	UL Type B LED mogul base lamp, 197 W to < 217 W	NR	\$160/lamp

Refrigeration

RFG01/RFG 02: Display Case Anti-Sweat Heater Controls, Freezer or Cooler

The measure splits into two available REBATES, low-temperature (freezers) and medium-temperature (coolers) display cases. A low-temperature freezer display case applies for the RFG01 rebate, and a medium-temperature cooler display case applies for the RFG02 measure.

The measure applies to the addition of anti-sweat heater (ASH) controls to a low temperature or medium temperature display case without ASH controls.

ELIGIBLE PRODUCT REQUIREMENTS

- The Anti-Sweat Heater (ASH) controls must be installed on an existing reach-in low-temperature (freezer, case temperature below 32 °F) or medium-temperature (cooler, case temperature at or above 32 °F) display case.
- The case must have an existing ASH that operates at 100% power continuously.
- Controls must have humidity-sensing, dew point based, or moisture/conductivity sensing controls that reduce the amount of power supplied to the heaters as the store dew point (DP) temperature decreases.
- The measure applies to buildings with single and multiplex compressor systems.
- Building must have electric cooling and natural gas heating HVAC systems.

RESTRICTIONS AND EXCLUSIONS

- The existing ASH must not have any existing ASH controls installed that allow for varying ASH power (including non-operable or broken ASH controls).
- Cannot apply measure with existing medium temperature and low temperature refrigeration display cases without anti-sweat heaters in them.
- The measure cannot be used in conjunction with the “RFG08/RFG09: Medium-Temperature Case Doors, with LEDs or without LEDs” and/or “RFG06/RFG07: New Display Case with Doors, Freezer or Cooler” measures.

REBATES

Rebate Code	Measure Description	Measure Application Type	Rebate/Unit
RFG01	Display Case Anti-Sweat Heater Controls, Low-Temp	AOE	\$60/Len-ft
RFG02	Display Case Anti-Sweat Heater Controls, Med-Temp	AOE	\$30/Len-ft

RFG03: ECM Retrofit for a Walk-in Cooler or Freezer

The measure applies to the replacement of either an existing shaded pole (SHP) or a permanent split capacitor (PSC) evaporator fan motor with a new electronically commutated permanent magnet (ECM) motor for a walk-in cooler or freezer evaporator fan. ECM fan motor efficiencies range from 71 to 83%.

ELIGIBLE PRODUCT REQUIREMENTS

- The ECM shaft output is typically rated between 6W and 373W ($\frac{1}{125}$ hp to $\frac{1}{2}$ hp).

Evaporator fan motors with less than 1hp and less than 460V must use ECM motors.

- Existing motor system must be fully functional with no signs of replacement in the 12 months following the project application date.
- Pre-inspection of the existing equipment.
- Walk-in cooler must be installed prior to January 1st, 2009.

RESTRICTIONS AND EXCLUSIONS

- Excludes motors greater than $\frac{1}{2}$ hp.

REBATES

Rebate Code	Measure Description	Measure Application Type	Rebate/Unit
RFG03	ECM Retrofit for a Walk-in Cooler or Freezer	AR	\$125/Unit

RFG04: Fan Motor Retrofit for Refrigerated Display Case

The measure applies to the replacement of either an existing shaded pole (SHP) or a permanent split capacitor (PSC) evaporator fan motor with a high efficiency motor for low temperature (freezer) or medium temperature (cooler) refrigerated display cases. The high efficiency motor can either be a new electronically commutated permanent magnet (ECM) or permanent magnet synchronous alternating current motor (PMS motor).

ELIGIBLE PRODUCT REQUIREMENTS

- Installed motor is a permanent magnet electronically commutated motor (ECM) or permanent magnet synchronous AC (PMS) motor/fan assembly.
- The motor is installed as an evaporator fan motor in a refrigerated display case.
- Existing equipment is operational.
- The new motor matches the equivalent size to the existing motor in terms of speed and shaft output power.
- The refrigerated display case applies to a low-temperature (freezer, case temperature below 32 °F) or a medium-temperature (cooler, case temperature at or above 32 °F) display case.
- Manufacturer must describe the motor as low-power or high-efficiency model.

RESTRICTIONS AND EXCLUSIONS

- This measure cannot be used in conjunction with the “RFG06/RFG07: New Display Case with Doors, Freezer or Cooler” measures.

REBATES

Rebate Code	Measure Description	Measure Application Type	Rebate/Unit
RFG04	Fan Motor Retrofit for Refrigerated Display Case	AR	\$50/Unit

RFG05: Floating Head Pressure Controls

The measure applies to the addition of floating head pressure controls to air-cooled and evaporatively cooled multiplex refrigeration systems with fixed head pressure controls in order to reduce the compressor power draw. Head pressure control utilizes condenser fan control such as cycling or variable frequency drive (VFD).

ELIGIBLE PRODUCT REQUIREMENTS

- Add controls to float head pressure down to a lower pressure when conditions allow (i.e., When changes control from fixed setpoint to floating setpoint).
- The controls only apply to refrigeration systems having multiplex compressor systems with existing control of the saturated condensing temperature (SCT) at a fixed setpoint.
- The new SCT setpoint must follow the ambient temperature by controlling condenser fans with variable-speed drives or by staging condenser fans.

RESTRICTIONS AND EXCLUSIONS

- Projects that only reprogram a controller; new hardware must be installed.
- New construction installations.
- Improvements that increase system energy use.
- Building vintages and refrigeration multiplex system vintages after 2013.

REBATES

Rebate Code	Measure Description	Measure Application Type	Rebate/Unit
RFG05	Floating Head Pressure Controls	AOE	\$80/Cap-Tons

RFG06/RFG07: New Display Case with Doors, Freezer or Cooler

The measure splits into two available rebates, low-temperature (freezers) and medium-temperature (coolers) display cases. The evaporator temperature in low-temperature cases is maintained between -40 °F and 0 °F; the evaporator temperature in medium-temperature refrigeration equipment is maintained between 0 °F and 35 °F. A low-temperature display case applies for the [RFG06](#) rebate, and a medium-temperature display case applies for the [RFG07](#) measure.

The measure applies to the replacement of a display case without doors with a new, reach-in glass door display case. The measure applies to supermarkets and grocery stores with both cooler and freezer, open, multi-deck refrigeration cases.

ELIGIBLE PRODUCT 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.
- The frames of medium-temperature cases may have heat.
- The freezer case door and frame heaters combined may not consume more than 50 W/ft of case length.
- The new case length must be less than or equal to the original case length.
- This measure is only for display cases served by a remote refrigeration system.

RESTRICTIONS AND EXCLUSIONS

- Medium-temperature cases must have no heat in the door.
- New case setpoint temperature cannot be lower than the original case setpoint temperature.
- Specialty deli cases, custom cooler or freezer, and walk-in boxes.
- Refurbished cases are not eligible

REBATES

Rebate Code	Measure Description	Measure Application Type	Rebate/Unit
RFG06	New Display Case with Doors, Freezer	NR	\$300/Len-ft
RFG07	New Display Case with Doors, Cooler	NR	\$500/Len-ft

RFG08/RFG09: Medium-Temperature Case Doors, with LEDs or without LEDs

The measure splits into two available rebates, medium-temperature case doors with LEDs and without LEDs.

The measure applies to the addition of glass doors on an existing medium-temperature, open-vertical (multi-deck), refrigerated display case. The RFG08 rebate, "With LED," means the existing fluorescent lighting will be removed and the new display case doors will include LED lighting. The RFG09 rebate, "Without LED," means the existing display case will keep the LED lighting and the display case will not include new lighting.

ELIGIBLE PRODUCT REQUIREMENTS

- The retrofit of glass doors, or glass doors with LED lights, for a medium-temperature, open-vertical, refrigerated display case must be added to an existing open-vertical, medium temp display case.
- The measure may require changes, that can affect the load reduction, to the refrigeration system serving the affected display case(s) such as the following:
 - Replacing the expansion valve and/or evaporator pressure regulating valve.
 - Adjusting the evaporator temperature/pressure set point.
 - Resizing refrigeration piping.
 - Replacing the flood back valve on the condenser.
 - Resizing the coil/piping on applicable heat reclaim systems.
 - Replacing or removing compressors.

RESTRICTIONS AND EXCLUSIONS

- Complete removal of existing display case and replacing it with a new case with glass doors.
- Retrofit should not increase total lighting power beyond existing system.
- Glass doors or door mounting should not have anti-sweat heat (ASH).

REBATES

Rebate Code	Measure Description	Measure Application Type	Rebate/Unit
RFG08	Medium-Temperature Case Doors, with LEDs	AOE	\$275/Len-ft
RFG09	Medium-Temperature Case Doors, without LEDs	AOE	\$250/Len-ft

Water Heating

WH01: Heat Pump Water Heater, ≥ 45 to ≤ 55 gallons

The measure applies to the replacement of an electric storage water heater with an efficient heat pump water heater, with a storage capacity ranging from 45 to 55 gallons.

ELIGIBLE PRODUCT REQUIREMENTS

- The heat pump water heater's storage capacity ranges from 45 to 55 gallons.
- The heat pump water heater's energy efficiency, UEF, must be ≥ 3.30 .
- Any existing water heating systems replaced must be fully decommissioned and disposed of accordingly.
- May apply split-system heat pump products to measure. Split-systems must be treated as a single product with a single product efficiency and storage volume.

RESTRICTIONS AND EXCLUSIONS

- Replacement of an instantaneous or tankless water heater.
- Replacement of non-electric baseline equipment.
- Cannot replace a single existing water heater with multiple heat pump water heaters.

REBATES

Rebate Code	Measure Description	Measure Application Type	Rebate/Unit
WH01	Heat Pump Water Heater, ≥ 45 to ≤ 55 gallons	NR	\$1,000/Unit

WH02: Heat Pump Water Heater, > 55 gallons

The measure applies to the replacement of a less efficient heat pump water heater with a more efficient heat pump water heater, with a storage capacity is greater than 55 gallons.

ELIGIBLE PRODUCT REQUIREMENTS

- The heat pump water heater's storage capacity is greater than 55 gallons.
- The heat pump water heater's energy efficiency, UEF, must be ≥ 3.30 .

- Any existing water heating systems replaced must be fully decommissioned and disposed of accordingly.
- May apply split-system heat pump products to measure. Split-systems must be treated as a single product with a single product efficiency and storage volume.

RESTRICTIONS AND EXCLUSIONS

- Replacement of an instantaneous or tankless water heater does not qualify (see Water Heating Fuel Substitution subcategory).
- Replacement of non-electric baseline equipment.
- Cannot replace a single existing water heater with multiple heat pump water heaters.

REBATES

Rebate Code	Measure Description	Measure Application Type	Rebate/Unit
WH02	Heat Pump Water Heater, >55 gallons	NR	\$400/Unit

Water Heating Fuel Substitution

WH-FS01: Heat Pump Water Heater, ≥ 45 to ≤ 75 gallons

The measure applies to the replacement of a natural gas storage domestic hot water heater with an efficient heat pump water heater, with a storage capacity ranging from 45 to 75 gallons. The measure also applies to the replacement of a natural gas tankless domestic hot water heater with an efficient heat pump water heater, with a storage capacity ranging from 45 to 55 gallons.

ELIGIBLE PRODUCT REQUIREMENTS

- The heat pump water heater's storage capacity is between 45 to 75 gallons.
- The heat pump water heater's energy efficiency, UEF, must be ≥ 3.30 .
- Measure applicable for one-to-one replacements. If looking to replace a different quantity of existing natural gas water heaters with multiple heat pump water heaters refer to measure WH-FS03: Large Heat Pump Water Heater, Commercial and Multifamily.
- May apply split-system heat pump unit assemblies to measure. Split-systems must be treated as a single product with a single product efficiency and storage volume.

- Any existing natural gas water heating system replaced must be fully decommissioned and disposed of. Existing gas pipes servicing base equipment must be disconnected and capped.

RESTRICTIONS AND EXCLUSIONS

- Water heaters used for non-domestic hot water uses, such as space conditioning, industrial (process) loads, and pools/spas applications not included in this measure.
- Combination systems that serve domestic hot water and space heating.
- Redundant (backup) systems.

REBATES

Rebate Code	Measure Description	Measure Application Type	Rebate/Unit
WH-FS01	Heat Pump Water Heater, ≥ 45 to ≤ 75 gallons, Fuel Substitution	NR	\$1,000/Unit

WH-FS02: Heat Pump Water Heater, >75 gallons

The measure applies to the replacement of natural gas storage domestic hot water heaters with an efficient heat pump water heater, with a storage capacity greater than 75 gallons.

ELIGIBLE PRODUCT REQUIREMENTS

- The heat pump water heater's storage capacity is greater than 75 gallons.
- The heat pump water heater's energy efficiency, UEF, must be ≥ 3.30 .
- Measure applicable for one-to-one replacements. If looking to replace a different quantity of existing natural gas water heaters with multiple heat pump water heaters refer to measure WH-FS03: Large Heat Pump Water Heater, Commercial and Multifamily.
- May apply split-system heat pump unit assemblies to measure. Split-systems must be treated as a single product with a single product efficiency and storage volume.
- Any existing natural gas water heating system replaced must be fully decommissioned and disposed of. Existing gas pipes servicing base equipment must be disconnected and capped.

RESTRICTIONS AND EXCLUSIONS

- Water heaters used for non-domestic hot water uses, such as space conditioning, industrial (process) loads, and pools/spas applications not included in this measure.

- Combination systems that serve domestic hot water and space heating.
- Redundant (backup) systems.

REBATES

Rebate Code	Measure Description	Measure Application Type	Rebate/Unit
WH-FS02	Heat Pump Water Heater, >75 gallons, Fuel Substitution	NR	\$700/Unit

WH-FS03: Large Commercial Heat Pump Water Heater

This measure includes large efficient heat pump water heaters or central heat pump water heating systems. The measure applies to the replacement of gas water heating systems with large efficient heat pump water heaters. Commercial offerings refer to large storage heat pump water heater systems with storage volumes greater than or equal to 75 gallons. The unit for the measure efficiency is in either coefficient of performance (COP) or uniform energy factor (UEF).

ELIGIBLE PRODUCT REQUIREMENTS

Current existing system	Existing system capacity, thermal efficiency (E_t)	Measure Capacity	Measure efficiency required for replacement (COP or UEF)
Storage natural gas water heater	80 gal, $E_t = 0.80$	$75 \leq \text{gal} < 100$	≥ 3.0 UEF
Storage natural gas water heater	100 gal, $E_t = 0.80$	$\geq 100 \text{ gal}$	≥ 4.3 COP
Instantaneous natural gas water heater	$> 200 \frac{kBtu}{hr}$, $E_t = 0.80$	$\geq 100 \text{ gal}$	≥ 4.3 COP
Instantaneous natural gas water heater	$76 - 200 \frac{kBtu}{hr}$, $E_t = 0.80$	$\geq 100 \text{ gal}$	≥ 4.3 COP

- Any existing natural gas water heating system replaced must be decommissioned and disposed of. Existing gas pipes servicing base equipment must be disconnected and capped.

- May apply tanked, split system, and standalone (i.e., instantaneous or tankless) heat pump unit assemblies to measure.
- COP values should be used directly from manufacturer specifications or databases such as ENERGY STAR, AHRI, and CEC appliance.

RESTRICTIONS AND EXCLUSIONS

- Water heaters used for non-domestic hot water uses, such as space conditioning, industrial (process) loads, and pools/spas applications not included in this measure.
- Baseline systems that use steam boilers.
- Combination systems that serve domestic hot water and space heating.
- Heat pump systems with total output heating capacity greater than 1,000 kBtu/hr. The 1,000 kBtu/hr limit is based on the output heating capacity of the new installed heat pump water heater.
- Redundant (backup) systems.

REBATES

Rebate Code	Measure Description	Measure Application Type	Rebate/Unit
WH-FS03	Large Commercial Heat Pump Water Heater, Fuel Substitution	NR	\$60/CapOut-kBtuh

BWP Program Data Collection Requirements

Food Service

FS01: Electric Combination Oven, >15 Pans

DATA COLLECTION REQUIREMENTS	Required for Upstream and midstream	Required for Downstream and Direct Install
Site ID - A unique identifier for the shipped location (upstream) or installed location (midstream/downstream/DI) of the incentivized equipment (e.g., site address)	Yes	Yes
Quantity per site - Total units of incentivized equipment located at the site or project	Yes	Yes
Measure equipment ID1 - A unique identifier for each unit of incentivized equipment, e.g., serial number	Yes	Yes
Measure equipment model number	Yes	Yes
Measure equipment manufacturer	Yes	Yes
Quantity of pans (hotel pan size) oven can accommodate	Yes	Yes
Measure equipment cooking efficiency rating (%)	Yes	Yes
Measure equipment idle energy rate (kW or Btu/hr)	Yes	Yes
Measure equipment on FSTC qualified product list (Y or N)	Yes	Yes
Climate Zone	Yes	Yes
Building Type	Yes	Yes
Building Vintage	Yes	Yes

<https://www.caetrm.com/measure/SWFS003/05/>

FS02: Electric Hand-Wrap Machine

DATA COLLECTION REQUIREMENTS	Required for Upstream and midstream	Required for Downstream and Direct Install
Site ID - A unique identifier for the shipped location (upstream) or installed location (midstream/downstream/DI) of the incentivized equipment (e.g., site address)	Yes	Yes
Quantity per site - Total units of incentivized equipment located at the site or project	Yes	Yes
Measure equipment ID - A unique identifier for each unit of incentivized equipment (serial number)	Yes	Yes
Measure equipment model number	Yes	Yes
Measure equipment manufacturer	Yes	Yes
Measure equipment type (on-demand with mechanical or optical control system)	Yes	Yes
Climate Zone	Yes	Yes
Building Type	Yes	Yes

<https://www.caetrm.com/measure/SWFS010/04/>

FS03: Efficient Electric Commercial Convection Oven, Full size

DATA COLLECTION REQUIREMENTS	Required for Upstream and midstream	Required for Downstream and Direct Install
Site ID - A unique identifier for the shipped location (upstream) or installed location (midstream/downstream/DI) of the incentivized equipment (e.g., site address)	Yes	Yes
Quantity per site - Total units of incentivized equipment located at the site or project	Yes	Yes
Measure equipment ID - A unique identifier for each unit of incentivized equipment, e.g., serial number	Yes	Yes
Measure equipment model number	Yes	Yes
Measure equipment manufacturer	Yes	Yes
Measure equipment cooking efficiency rating (%)	Yes	Yes
Measure equipment idle energy rate (kW or Btuh)	Yes	Yes
Measure equipment on FSTC qualified product list (Y or N)	Yes	Yes
Base equipment fuel type (gas or electric)	Yes	Yes
Climate Zone	Yes	Yes
Building Type	Yes	Yes
Building Vintage	Yes	Yes

<https://www.caetrm.com/measure/SWFS001/04/>

FS04: Efficient Electric Commercial Convection Oven, Half size

DATA COLLECTION REQUIREMENTS	Required for Upstream and midstream	Required for Downstream and Direct Install
Site ID - A unique identifier for the shipped location (upstream) or installed location (midstream/downstream/DI) of the incentivized equipment (e.g., site address)	Yes	Yes
Quantity per site - Total units of incentivized equipment located at the site or project	Yes	Yes
Measure equipment ID - A unique identifier for each unit of incentivized equipment, e.g., serial number	Yes	Yes
Measure equipment model number	Yes	Yes
Measure equipment manufacturer	Yes	Yes
Measure equipment cooking efficiency rating (%)	Yes	Yes
Measure equipment idle energy rate (kW or Btuh)	Yes	Yes
Measure equipment on FSTC qualified product list (Y or N)	Yes	Yes
Base equipment fuel type (gas or electric)	Yes	Yes
Climate Zone	Yes	Yes
Building Type	Yes	Yes
Building Vintage	Yes	Yes

<https://www.caetrm.com/measure/SWFS001/04/>

FS05: Commercial Electric Deck Oven

DATA COLLECTION REQUIREMENTS	Required for Upstream and midstream	Required for Downstream and Direct Install
Site ID - A unique identifier for the shipped location (upstream) or installed location (midstream/downstream/DI) of the incentivized equipment (e.g., site address)	Yes	Yes
Quantity per site - Total units of incentivized equipment located at the site or project	Yes	Yes
Measure equipment ID - A unique identifier for each unit of incentivized equipment (serial number)	Yes	Yes
Measure equipment model number	Yes	Yes
Measure equipment manufacturer	Yes	Yes
Measure equipment cooking efficiency rating (%)	Yes	Yes
Measure equipment idle energy rate (kW)	Yes	Yes
Measure equipment on FSTC qualified product list (Y or N)	Yes	Yes
Climate Zone	Yes	Yes
Building Type	Yes	Yes

<https://www.caetrm.com/measure/SWFS009/04/>

FS06: Commercial Door-Type Dishwasher

DATA COLLECTION REQUIREMENTS	Required for Upstream and midstream	Required for Downstream and Direct Install
Site ID - A unique identifier for the shipped location (upstream) or installed location (midstream/downstream/DI) of the incentivized equipment (e.g., site address)	Yes	Yes
Quantity per site - Total units of incentivized equipment located at the site or project	Yes	Yes
Measure equipment ID - A unique identifier for each unit of incentivized equipment, e.g., serial number	Yes	Yes
Measure equipment model number	Yes	Yes
Measure equipment manufacturer	Yes	Yes
Measure equipment efficiency rating/ water consumption (gal/rack)	Yes	Yes
Measure equipment washing energy (kWh/rack)	Yes	Yes
Measure equipment on FSTC qualified product list (Y or N)	Yes	Yes
Climate Zone	Yes	Yes
Building Type	Yes	Yes
Building Vintage	Yes	Yes

<https://www.caetrm.com/measure/SWFS002/05/>

FS07: Efficient Electric Commercial Fryer

DATA COLLECTION REQUIREMENTS	Required for Upstream and midstream	Required for Downstream and Direct Install
Site ID - A unique identifier for the shipped location (upstream) or installed location (midstream/downstream/DI) of the incentivized equipment (e.g., site address)	Yes	Yes
Quantity per site - Total units of incentivized equipment located at the site or project	Yes	Yes
Measure equipment ID - A unique identifier for each unit of incentivized equipment, e.g., serial number	Yes	Yes
Measure equipment model number	Yes	Yes
Measure equipment manufacturer	Yes	Yes
Measure equipment cooking efficiency rating (%)	Yes	Yes
Measure equipment idle rate (Btuh)	Yes	Yes
Measure equipment on FSTC qualified product list (Y or N)	Yes	Yes
Climate Zone	Yes	Yes
Building Type	Yes	Yes

<https://www.caetrm.com/measure/SWFS011/07/>

FS08: Efficient Electric Commercial Griddle

DATA COLLECTION REQUIREMENTS	Required for Upstream and midstream	Required for Downstream and Direct Install
Site ID - A unique identifier for the shipped location (upstream) or installed location (midstream/downstream/DI) of the incentivized equipment (e.g., site address)	Yes	Yes
Quantity per site - Total units of incentivized equipment located at the site or project	Yes	Yes
Measure equipment ID - A unique identifier for each unit of incentivized equipment, e.g., serial number	Yes	Yes
Measure equipment model number	Yes	Yes
Measure equipment manufacturer	Yes	Yes
Measure equipment cooking efficiency rating (%)	Yes	Yes
Measure equipment idle rate (Btuh)	Yes	Yes
Measure equipment on FSTC qualified product list (Y or N)	Yes	Yes
Climate Zone	Yes	Yes
Building Type	Yes	Yes

<https://www.caetrm.com/measure/SWFS004/03/>

Food Service Fuel Substitution

FS-FS01: Commercial Fryer

DATA COLLECTION REQUIREMENTS	Required for Upstream and midstream	Required for Downstream and Direct Install
Site ID - A unique identifier for the shipped location (upstream) or installed location (midstream/downstream/DI) of the incentivized equipment (e.g., site address)	Yes	Yes
Quantity per site - Total units of incentivized equipment located at the site or project	Yes	Yes
Measure equipment ID - A unique identifier for each unit of incentivized equipment, e.g., serial number	Yes	Yes
Measure equipment model number	Yes	Yes
Measure equipment manufacturer	Yes	Yes
Measure equipment ENERGY STAR qualification status (yes or no)	Yes	Yes
Measure equipment cooking efficiency (%)	Yes	Yes
Measure equipment idle energy rate (kW)	Yes	Yes
Base equipment fuel type (gas or electric)	Yes ¹	Yes
Climate Zone	Yes	Yes
Building Type	Yes	Yes
Building Vintage	Yes	Yes

<https://www.caetrm.com/measure/SWFS021/05/>

Heating, Ventilation, and Air Conditioning (HVAC)

HVAC01: Package Terminal Air Conditioner, Under 24 kBtu/hr

DATA COLLECTION REQUIREMENTS	Required for Upstream and midstream	Required for Downstream and Direct Install
Site ID – A unique identifier for the shipping destination (upstream delivery) or installed location (midstream/downstream/DI) of the incentivized equipment (e.g., site address)	Yes	Yes
Quantity per Site – Total units of incentivized equipment located at the site or project	Yes	Yes
Measure equipment ID ¹ – A unique identifier for each unit of incentivized equipment on the site (e.g., serial number)	Yes	Yes
HVAC product type (i.e., PTAC or PTHP)	Yes	Yes
HVAC equipment model number	Yes	Yes
HVAC equipment rated cooling capacity (Btu/hr)	Yes	Yes
HVAC equipment rated EER	Yes	Yes
For heat pump, HVAC equipment rated heating capacity (Btu/hr)	Yes	Yes
For heat pump, HVAC equipment rated COP	Yes	Yes
Refrigerant used	Yes	Yes
Itemized invoice to support measure cost	Yes	Yes
For downstream NR installations, existing HVAC equipment type (i.e., PTAC or PTHP)	No	Yes

<https://www.caetrm.com/measure/SWHC027/06/>

HVAC02: Package Terminal Heat Pump, Under 24 kBtu/hr

DATA COLLECTION REQUIREMENTS	Required for Upstream and midstream	Required for Downstream and Direct Install
Site ID – A unique identifier for the shipping destination (upstream delivery) or installed location (midstream/downstream/DI) of the incentivized equipment (e.g., site address)	Yes	Yes
Quantity per Site – Total units of incentivized equipment located at the site or project	Yes	Yes
Measure equipment ID - A unique identifier for each unit of incentivized equipment on the site (e.g., serial number)	Yes	Yes
HVAC product type (i.e., PTAC or PTHP)	Yes	Yes
HVAC equipment model number	Yes	Yes
HVAC equipment rated cooling capacity (Btu/hr)	Yes	Yes
HVAC equipment rated EER	Yes	Yes
For heat pump, HVAC equipment rated heating capacity (Btu/hr)	Yes	Yes
For heat pump, HVAC equipment rated COP	Yes	Yes
Refrigerant used	Yes	Yes
Itemized invoice to support measure cost	Yes	Yes
For downstream NR installations, existing HVAC equipment type (i.e., PTAC or PTHP)	No	Yes

<https://www.caetrm.com/measure/SWHC027/06/>

HVAC03: VFD for Packaged Single-Zone DX HVAC Unit

DATA COLLECTION REQUIREMENTS	Required for Downstream and Direct Install
Site ID - A unique identifier for the installed location (Downstream/DI) of the incentivized equipment (e.g., site address)	Yes
Quantity per site - Total units of incentivized equipment located at the site or project (tons)	Yes
Measure equipment ID - A unique identifier for each unit of incentivized equipment (e.g., serial number)	Yes
Measure equipment model number (VFD and motor (if applicable))	Yes
Measure equipment manufacturer (VFD and motor (if applicable))	Yes
Measure equipment motor type (new induction motor, new PMM, or no motor replacement)	Yes
Measure equipment fan motor controls (i.e. variable speed)	Yes
Base equipment fan motor controls (i.e. constant speed)	Yes
Host equipment unit type (Packaged or split single zone DX - cooling unit with gas heat, cooling only unit, or heat pump)	Yes
Climate zone	Yes
Building type	Yes
Building vintage	Yes

<https://www.caetrm.com/measure/SWHC023/05/>

HVAC04: VSD on HVAC Fan Control

DATA COLLECTION REQUIREMENTS	Required for Downstream and Direct Install
Site ID - A unique identifier for the installed location (Downstream/DI) of the incentivized equipment (e.g., site address)	Yes
Quantity per site - Total units of incentivized equipment located at the site or project (hp)	Yes
Measure equipment ID - A unique identifier for each unit of incentivized equipment (e.g., serial number)	Yes
Measure equipment model number	Yes
Measure equipment manufacturer	Yes
Measure equipment fan motor controls (i.e. variable speed)	Yes
Base equipment fan motor controls (i.e. constant speed)	Yes
Base equipment air flow controls (i.e. variable air volume with damper controls)	Yes
Host equipment motor horsepower (hp)	Yes
Host equipment fan type (i.e. supply fan, return fan, etc.)	Yes
Climate zone	Yes
Building type	Yes

<https://www.caetrm.com/measure/SWHC018/05/>

HVAC Fuel Substitution

HVAC-FS01: Package Heat Pump, < 65kBtuh

DATA COLLECTION REQUIREMENTS	Required for Upstream and midstream	Required for Downstream and Direct Install
Site ID - unique identifier for the shipping destination (upstream) or installed location (Midstream/Downstream/DI) of the incentivized equipment (e.g., site address)	Yes	Yes
Quantity per Site - Total units of incentivized equipment located at the site or project	Yes	Yes
Measure equipment ID - unique identifier for each unit of incentivized equipment (e.g., serial number)	Yes	Yes
Measure equipment model number	Yes	Yes
Measure equipment manufacturer	Yes	Yes
Measure equipment rated capacity (kbtu/hr)	Yes	Yes
Measure equipment energy efficiency rating (IEER and COP / SEER and HSPF)	Yes	Yes
Base equipment fuel type (gas or electric)	Yes	Yes
Base equipment type (packaged or split system)	Yes ³	Yes
Base equipment rated capacity (kbtu/hr)	Yes ³	Yes
Building type	Yes	Yes
Climate Zone	Yes	Yes

<https://www.caetrm.com/measure/SWHC046/03/>

HVAC-FS02: Split Heat Pump, < 65kBtuh

DATA COLLECTION REQUIREMENTS	Required for Upstream and midstream	Required for Downstream and Direct Install
Site ID - unique identifier for the shipping destination (upstream) or installed location (Midstream/Downstream/DI) of the incentivized equipment (e.g., site address)	Yes	Yes
Quantity per Site - Total units of incentivized equipment located at the site or project	Yes	Yes
Measure equipment ID - unique identifier for each unit of incentivized equipment (e.g., serial number)	Yes	Yes
Measure equipment model number	Yes	Yes
Measure equipment manufacturer	Yes	Yes
Measure equipment rated capacity (kbtu/hr)	Yes	Yes
Measure equipment energy efficiency rating (IEER and COP / SEER and HSPF)	Yes	Yes
Base equipment fuel type (gas or electric)	Yes	Yes
Base equipment type (packaged or split system)	Yes ³	Yes
Base equipment rated capacity (kbtu/hr)	Yes ³	Yes
Building type	Yes	Yes
Climate Zone	Yes	Yes

<https://www.caetrm.com/measure/SWHC046/03/>

Lighting

LTG01: LED Ambient Fixtures, Luminaire, and Retrofit Kits

DATA COLLECTION REQUIREMENTS	Required for Upstream and midstream	Required for Downstream and Direct Install
Site ID - unique identifier for the shipping destination (upstream) or installed location (Midstream/Downstream/DI) of the incentivized equipment (e.g., site address)	Yes	Yes
Quantity per Site - Total units of incentivized equipment located at the site or project	Yes	Yes
Measure equipment ID ¹ - unique identifier for each unit of incentivized equipment (e.g., serial number)	Yes	Yes
Measure equipment model number	Yes	Yes
Measure equipment manufacturer	Yes	Yes
DLC Primary Use Designation	Yes	Yes
Luminous Efficacy (lumens per watt)	Yes	Yes
Building type	Yes	Yes
Climate Zone	Yes	Yes

<https://www.caetrm.com/measure/SWLG012/01/>

LTG02: 4-foot LED T8 Lamp

DATA COLLECTION REQUIREMENTS	Required for Downstream and Direct Install
Site ID	Yes
Building type and vintage	Yes
Total number of fixtures on site	Yes
Number of fixtures sampled (must sample at least 10% of the total number of fixtures on site)	Yes
Number of lamps per fixture	Yes
Number of ballasts per fixture	Yes
Ballast model number	Yes
Ballast manufacturer	Yes
Fluorescent lamp wattage	Yes
Fluorescent tube disposal method	Yes
Manufacturer cut sheet showing ballast compatibility	Yes

<https://www.caetrm.com/measure/SWLG018/03/>

LTG-03: LED Mogul Base Lamp Retrofits for Outdoor Area/Pole and Decorative Fixtures

DATA COLLECTION REQUIREMENTS	Required for Upstream and midstream	Required for Downstream and Direct Install
Site ID - A unique identifier for the shipped location (upstream) or installed location (midstream/downstream/DI) of the incentivized equipment (e.g., site address)	Yes	Yes
Quantity per site - Total units of incentivized equipment located at the site or project	Yes	Yes
Measure equipment ID - A unique identifier for each unit of incentivized equipment	Yes	Yes
LED manufacture and model number	Yes	Yes
LED wattage	Yes	Yes
LED efficacy	Yes	Yes
LED DLC qualification status and category	Yes	Yes
Confirmation that the LED is rated for fully enclosed fixtures	Yes	Yes
Confirmation that the LED is rated for damp or wet locations, or has an IP water ingress rating of 4 or better	Yes	Yes
Confirmation that the existing system is outdoor ambient lighting that operates from dusk to dawn (Y/N)	No	Yes
Confirmation that the lights are not on a utility owned LS-1 outdoor lighting tariff (Y/N)	No	Yes
Base case lamp type and wattage ³	No	Yes
Site data collection notes, photos, or attestation confirming site, system, installation, and safety requirements are met	No	Yes, if no invoice is provided confirming this data

DATA COLLECTION REQUIREMENTS CONT.	Required for Upstream and midstream	Required for Downstream and Direct Install
Signed document confirming site, system, installation, and safety requirements are met	Yes, if no invoice is provided confirming this data	No
Contractor invoice confirming site, system, installation, and safety requirements are met	Yes, if no signed document is provided confirming this data	Yes, if no site notes and/or photos is provided confirming this data
Climate zone	Yes	Yes
Building type	Yes	Yes

<https://www.caetrm.com/measure/SWLG020/03/>

Refrigeration

RFG01/RFG 02: Display Case Anti-Sweat Heater Controls, Freezer or Cooler

DATA COLLECTION REQUIREMENTS	Required for Downstream and Direct Install
Site ID - A unique identifier for the installed location (Downstream/DI) of the incentivized equipment (e.g., site address)	Yes
Quantity per site - Total length of freezers and coolers being equipped with ASH control systems located at the site or project ¹	Yes
Measure equipment ID - A unique identifier for each unit of incentivized equipment.	Yes
Host equipment type (cooler or freezer)	Yes
Measure equipment model number	Yes
Measure equipment manufacturer	Yes
Measure equipment type (humidity, dew point, or conductivity sensing control)	Yes
Confirmation of existing anti-sweat heater (ASH) on host equipment (Y/N)	Yes
Confirmation of existing ASH controls (operable, non-operable/broken, or none)	Yes
Building HVAC system type	Yes
Climate Zone	Yes
Building Type	Yes
Building Vintage	Yes

¹ The NormUnit for this measure package is len-ft, which is the total door line-up. For measurements, this is defined as the case's total end-to-end length of the door frame opening.

<https://www.caetrm.com/measure/SWCR001/05/>

RFG03: ECM Retrofit for a Walk-in Cooler or Freezer

DATA COLLECTION REQUIREMENTS	Required for Downstream and Direct Install
Site ID - A unique identifier for the installed location (Downstream/DI) of the incentivized equipment (e.g., site address)	Yes
Quantity per site - Total units of incentivized equipment located at the site or project	Yes
Measure equipment ID - A unique identifier for each unit of incentivized equipment.	Yes
Host equipment type (walk-in cooler or freezer)	Yes
Host equipment installation year	Yes
Existing Motor Type (PSC or SHP)	Yes
Existing motor system is fully functional with no signs of replacement in the 12 months following the project application date.	Yes
Measure equipment model number	Yes
Measure equipment manufacturer	Yes
Motor size (hp)	Yes
ECM shaft output power (W)	Yes
Climate Zone	Yes
Building Type	Yes
Building Vintage	Yes

<https://www.caetrm.com/measure/SWCR004/02/>

RFG04: Fan Motor Retrofit for Refrigerated Display Case

DATA COLLECTION REQUIREMENTS	Required for Downstream and Direct Install
Site ID – A unique identifier for the shipping destination (upstream delivery) or installed location (midstream/downstream/DI) of the incentivized equipment (e.g., site address)	Yes
Measure equipment ID - A unique identifier for each unit of incentivized equipment on the site (e.g., serial number)	Yes
Quantity per Site – Total units of incentivized equipment located at the site or project.	Yes
Measure Fan motor model number	Yes
Measure Fan motor manufacturer	Yes
Existing Display case type (i.e., MT or LT)	Yes
Existing Fan motor type (i.e., PSC or SHP)	Yes
Measure Fan motor type (i.e., ECM or PMS)	Yes
Existing & Measure Fan motor capacity and speed	Yes
Measure Fan motor efficiency rating	Yes
Climate Zone	Yes
Building Type	Yes

<https://www.caetrm.com/measure/SWCRO03/04/>

RFG05: Floating Head Pressure Controls

DATA COLLECTION REQUIREMENTS	Required for Downstream and Direct Install
Site ID - unique identifier for the installed location of incentivized equipment (e.g. site address)	Yes
Quantity per Site - total units of incentivized equipment located at the site or project	Yes
Measure equipment ID - unique identifier for each unit of incentivized equipment (e.g. serial number)	Yes
Measure equipment model number	Yes
Measure equipment manufacturer	Yes
Condenser type (Air-cooled or Evap cooled)	Yes
Condenser fan control (cycling or VFD)	Yes
Refrigeration multiplex system vintage	Yes
Building vintage	Yes
Climate Zone	Yes
Building Type	Yes

<https://www.caetrm.com/measure/SWCRO07/04/>

RFG06/RFG07: New Display Case with Doors, Freezer or Cooler

DATA COLLECTION REQUIREMENTS	Required for Downstream and Direct Install
Site ID - unique identifier for the installed location of incentivized equipment (e.g. site address)	Yes
Quantity per Site - total units of incentivized equipment located at the site or project	Yes
Measure equipment ID - unique identifier for each unit of incentivized equipment (e.g. serial number)	Yes
Measure equipment model number	Yes
Measure equipment manufacturer	Yes
Measure equipment type (MT, LT)	Yes
Base equipment model number	Yes
Base equipment manufacturer	Yes
Base equipment type (MT, LT)	Yes
Climate Zone	Yes
Building Type	Yes

<https://www.caetrm.com/measure/SWCRO21/04/>

RFG08/RFG09: Medium-Temperature Case Doors, with LEDs or without LEDs

DATA COLLECTION REQUIREMENTS	Required for Downstream and Direct Install
Site ID – A unique identifier for the installed location of the incentivized equipment (e.g., site address)	Yes
Measure equipment ID - A unique identifier for the installed location of the incentivized equipment (e.g., site address)	Yes
Quantity per Site – Total units of incentivized equipment located at the site or project.	Yes
Measure equipment manufacturer	Yes
Measure equipment model number	Yes
Measure equipment total lighting power	Yes
Existing equipment total lighting power	Yes
Building type	Yes
Climate zone	Yes

<https://www.caetrm.com/measure/SWCRO15/04/>

Water Heating

WH01: Heat Pump Water Heater, ≥ 45 to ≤ 55 gallons

DATA COLLECTION REQUIREMENTS	Required for Upstream and midstream	Required for Downstream and Direct Install
Site ID - A unique identifier for the shipping destination (upstream) or installed location (Midstream/Downstream/DI) of the incentivized equipment (e.g., site address)	Yes	Yes
Quantity per site - Total units of incentivized equipment located at the site or project	Yes	Yes
Measure equipment ID - A unique identifier for each incentivized equipment (serial number)	Yes	Yes
Measure equipment model number	Yes	Yes
Measure equipment manufacturer	Yes	Yes
Measure equipment energy efficiency rating (UEF)	Yes	Yes
Measure storage capacity (gallons)	Yes	Yes
Base equipment fuel type (gas or electric)	No	Yes
Base equipment type (heat pump water heater or electric storage water heater)	No	Yes
Base equipment storage capacity (gallons)	Yes	Yes
Climate zone	Yes	Yes
Building type	Yes	Yes

<https://www.caetrm.com/measure/SWWH031/04/>

WH02: Heat Pump Water Heater, > 55 gallons

DATA COLLECTION REQUIREMENTS	Required for Upstream and midstream	Required for Downstream and Direct Install
Site ID - A unique identifier for the shipping destination (upstream) or installed location (Midstream/Downstream/DI) of the incentivized equipment (e.g., site address)	Yes	Yes
Quantity per site - Total units of incentivized equipment located at the site or project	Yes	Yes
Measure equipment ID - A unique identifier for each incentivized equipment (serial number)	Yes	Yes
Measure equipment model number	Yes	Yes
Measure equipment manufacturer	Yes	Yes
Measure equipment energy efficiency rating (UEF)	Yes	Yes
Measure storage capacity (gallons)	Yes	Yes
Base equipment fuel type (gas or electric)	No	Yes
Base equipment type (heat pump water heater or electric storage water heater)	No	Yes
Base equipment storage capacity (gallons)	Yes	Yes
Climate zone	Yes	Yes
Building type	Yes	Yes

<https://www.caetrm.com/measure/SWWH031/04/>

Water Heating Fuel Substitution

WH-FS01: Heat Pump Water Heater, ≥ 45 to ≤ 75 gallons

DATA COLLECTION REQUIREMENTS	Required for Upstream and midstream	Required for Downstream and Direct Install
Site ID - A unique identifier for the shipping destination (upstream) or installed location (Midstream/Downstream/DI) of the incentivized equipment (e.g., site address)	Yes	Yes
Quantity per site - Total units of incentivized equipment located at the site or project	Yes	Yes
Measure equipment ID - A unique identifier for each unit of incentivized equipment (e.g., serial number)	Yes	Yes
Measure equipment model number	Yes	Yes
Measure equipment manufacturer	Yes	Yes
Measure equipment energy efficiency (UEF)	Yes	Yes
Measure storage capacity per heat pump (gallons)	Yes	Yes
Base equipment fuel type (gas or electric)	Yes	Yes
Base equipment type (storage, tankless/instantaneous)	Yes	Yes
Base equipment storage capacity, for storage systems (gallons) ⁴	Yes	Yes
Confirmation that the unit is serving only domestic hot water loads	No	Yes
Confirmation that the installed heat pumps are not redundant systems.	No	Yes
Climate zone	Yes	Yes
Building type	Yes	Yes

<https://www.caetrm.com/measure/SWWH027/04/>

WH-FS02: Heat Pump Water Heater, >75 gallons

DATA COLLECTION REQUIREMENTS	Required for Upstream and midstream	Required for Downstream and Direct Install
Site ID - A unique identifier for the shipping destination (upstream) or installed location (Midstream/Downstream/DI) of the incentivized equipment (e.g., site address)	Yes	Yes
Quantity per site - Total units of incentivized equipment located at the site or project	Yes	Yes
Measure equipment ID - A unique identifier for each unit of incentivized equipment (e.g., serial number)	Yes	Yes
Measure equipment model number	Yes	Yes
Measure equipment manufacturer	Yes	Yes
Measure equipment energy efficiency (UEF)	Yes	Yes
Measure storage capacity per heat pump (gallons)	Yes	Yes
Base equipment fuel type (gas or electric)	Yes	Yes
Base equipment type (storage, tankless/instantaneous)	Yes	Yes
Base equipment storage capacity, for storage systems (gallons) ⁴	Yes	Yes
Confirmation that the unit is serving only domestic hot water loads	No	Yes
Confirmation that the installed heat pumps are not redundant systems.	No	Yes
Climate zone	Yes	Yes
Building type	Yes	Yes

<https://www.caetrm.com/measure/SWWH027/04/>

WH-FS03: Large Commercial Heat Pump Water Heater

DATA COLLECTION REQUIREMENTS	REQUIRED FOR UPSTREAM and Midstream	REQUIRED FOR DOWNSTREAM AND DIRECT INSTALL
Site ID - A unique identifier for the shipping destination (upstream) or installed location (Midstream/Downstream/DI) of the incentivized equipment (e.g., site address)	Yes	Yes
Quantity per site - Total units of incentivized equipment located at the site or project (output capacity kBtu/hr)	Yes	Yes
Measure equipment ID - A unique identifier for each incentivized equipment (serial number)	Yes	Yes
Measure equipment model number	Yes	Yes
Measure equipment manufacturer	Yes	Yes
Measure equipment energy efficiency (in UEF or COP)	Yes	Yes
Measure storage capacity per heat pump (gallons)	Yes	Yes
Measure output heating capacity per heat pump (kBtu/hr)	Yes	Yes
Base equipment fuel type (gas or electric)	Yes	Yes
Base equipment type (storage, tankless/instantaneous, or boiler)	Yes	Yes
Base equipment storage capacity (gallons)	Yes	Yes
Base equipment input heating capacity (kBtu/hr) ³	Yes	Yes
Confirmation that the unit is serving only domestic hot water loads	No	Yes
Confirmation that the installed heat pumps are not redundant systems.	No	Yes
Climate zone	Yes	Yes
Building type	Yes	Yes

<https://www.caetrm.com/measure/SWWH028/05/>