

Fast-Track Equipment Specification Guide

For Existing Building Commercial Customers



Office



Healthcare



Retail



Restaurants



And More!

CEMS Program
Comprehensive Energy Management Solutions



Fast Track Incentives 2024v1
Visit www.SavingWithCEMS.com to confirm current incentive rates

Fast Track Incentives



Save energy. Earn incentives. Fast-Track Incentives are a quick and easy way to receive cash for energy-efficiency upgrades. The Comprehensive Energy Management Solutions (CEMS) program provides cash payments to help customers upgrade specific equipment with established energy savings.

To be eligible, customers must be existing commercial gas or electric customers on a qualifying rate schedule within the SDG&E® service territory and have a monthly electrical demand greater than 20 kW over the most recent 12-month period.

Projects consisting of only Fast-Track measures do not require pre-approval. However, projects that include energy-saving upgrades not found on the Fast-Track Incentive list will require pre-approval prior to equipment purchase or installation of all project measures. All Fast-Track Incentive applications must be submitted to the CEMS program within 90 days of the project's installation date or before November 15 of that program year, whichever is sooner.

How to Apply

Go to www.SavingWithCEMS.com to access the incentive application or connect with us directly by calling toll-free 1-844-600-CEMS or emailing connect@savingwithCEMS.com. Please refer to the energy-efficiency specifications referenced for each technology to ensure equipment complies with program efficiency requirements.



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Fast-Track Incentives List

Appliance

Equipment		Estimated Incentive
Ozone Laundry System		\$90.00 - \$112.00 per pound of laundry capacity
Gas Dryer Modulating Valve	Gas dryer modulating valve	\$84.00 - \$637.00 per unit
Vending and Beverage Merchandise Controller	Double-door beverage merchandise cooler controller	\$38.00 - \$47.00 per unit
	One-door beverage merchandise cooler controller	\$27.00 - \$34.00 per unit
	One-door under-counter beverage merchandise cooler controller	\$20.00 - \$25.00 per unit
	Triple-door beverage merchandise cooler controller	\$53.00 - \$66.00 per unit
	Cold vending machine controller	\$32.00 - \$56.00 per unit
	Snack vending machine controller	\$2.34 - \$6.29 per unit

Food Service



Equipment		Estimated Incentive
Automatic Conveyor Broiler	Width <20 inches	\$2,523.00 per unit
	Width 20 - 26 inches	\$3,146.00 per unit
	Width >26 inches	\$3,658.00 per unit
Combination Oven	Electric: size <15 pan model	\$396.00 per unit
	Electric: size 15 - 28 pan model	\$1,213.00 per unit
	Electric: size >28 pan model	\$1,297.00 per unit
	Gas: size <15 pan model	\$565.00 per unit
	Gas: size 15 - 28 pan model	\$622.00 per unit
	Gas: size >28 pan model	\$906.00 per unit
Convection Oven	Half-size, electric	\$222.00 per unit
	Full-size, electric	\$345.00 per unit
	Half-size, gas	\$510.00 per unit
	Full-size, gas	\$1,057.00 per unit
Convection Oven: Fuel Substitution	Efficient, Half-Size, Gas to Electric	\$510.00 per unit
	Efficient, Full-Size, Gas to Electric	\$1,057.00 per unit
Conveyor Oven	Gas	\$1,256.00 per unit
Contact Conveyor Toaster	Commercial	\$322.00 per unit
Door-Type Dishwasher	High-Temperature, Tier 2	\$1,126.00 - \$1,327.00 per unit
	Low-Temperature, Tier 2	\$789.00 - \$976.00 per unit
	High-Temperature, Tier 1	\$622.00 - \$727.00 per unit
	Low-Temperature, Tier 1	\$267.00 per unit

Food Service (continued)

Equipment		Estimated Incentive
Fryer	Electric	\$87.00 per unit
	Gas (tier 1 & 2)	\$636.00 - \$965.00 per unit
Fryer: Fuel Substitution	Efficient, commercial fryer, electric	\$3,002.00 per unit
Griddle	Electric or gas	\$183.00 - \$375.00 per len-ft
Commercial Hand-Wrap Machine	Electric	\$192.00 per unit
Insulated Hot Food Holding Cabinet	Full-size	\$147.00 per unit
	Half-size	\$77.00 per unit
Ice Machine	Self-contained unit (SCU)	\$70.00 - \$119.00 per unit
	Ice maker head (IMH)	\$78.00 - \$250.00 per unit
	Remote condensing unit (RCU)	\$190.00 - \$288.00 per unit
Low-Flow Pre-Rinse Spray Valve	Low-flow pre-rinse spray valve, 0.75 - 1.07 gpm	\$16.00 - \$21.00 per unit
	Low-flow pre-rinse spray valve, < 0.75 gpm	\$13.00 per unit
Rack Oven: Gas	Commercial Rack Oven, Single-Rack, Gas	\$1,077.00 per unit
	Commercial Rack Oven, Double-Rack, Gas	\$1,741.00 per unit
Refrigerated Chef Base	V, is constrained by $0 \leq V < 7.5 \text{ ft}^3$	\$39.00 per unit
	V, is constrained by $7.5 \leq V < 15 \text{ ft}^3$	\$100.00 per unit
	V, is constrained by $15 \leq V < 22.5 \text{ ft}^3$	\$160.00 per unit
	V, is constrained by $22.5 \leq V < 30 \text{ ft}^3$	\$218.00 per unit
Steamer	Efficient Commercial Steamer, Electric	\$515.00 per unit
	Efficient Commercial Steamer, Gas	\$2,059.00 per unit
Undercounter Dishwasher	High Temp, Tier 1 (gal/rack \leq 0.86, idle rate \leq 0.30)	\$247.00 - \$289.00 per unit
	High Temp, Tier 2 (gal/rack \leq 0.73, idle rate \leq 0.30)	\$381.00 - \$444.00 per unit
	Low Temp, Tier 1 (gal/rack \leq 1.19, idle rate \leq 0.25)	\$221.00 - \$272.00 per unit
	Low Temp, Tier 2 (gal/rack \leq 1.01, idle rate \leq 0.25)	\$336.00 - \$416.00 per unit
Underfired Broiler: Gas	Commercial Underfired Broiler, Gas	\$649.00 per len-ft



Hot Water

Equipment		Estimated Incentive
Boiler	Small or medium commercial boiler	\$3.51 - \$7.48 per Cap-BTUh
	Large commercial boiler	\$2.36 - \$12.00 per Cap-BTUh
Boiler: Process	Hot Water: 85% combustion efficiency (CE)	\$2.95 per Cap-BTUh
	Hot Water: 90% combustion efficiency (CE)	\$11.00 per Cap-BTUh
	Steam: 83% combustion efficiency (CE)	\$4.35 per Cap-BTUh
Domestic Hot Water Loop Temperature Controller	Hotel, 25+ units	\$3.31 - \$10.00 per room
Heat Pump Water Heater	Various configurations	\$139.00- \$1,343.00 per unit
Heat Pump Water Heater: Fuel Substitution	Various configurations	\$528.00 - \$4,034.00 per unit
Hot Water Pipe Insulation	Pipe insulation, 1-in thickness, hot water and steam, outdoor, various diameters	\$6.58 per len-ft
	Fitting insulation, 1-in thickness, hot water and steam, outdoor, various diameters	\$4.23 - \$64.00 per len-ft
	Pipe insulation, 1-in thickness, hot water and steam, indoor, various diameters	\$3.54 - \$6.58 per len-ft
	Fitting insulation, 1-in thickness, hot water and steam, indoor, various diameters	\$1.07 - \$62.00 per len-ft
Hot Water Tank Insulation	1-inch insulation	\$8.56 - \$9.49 per ft ²
	2-inch insulation	\$12.00 per ft ²
Laminar Flow Restrictor	Faucet, public or private lavatory or kitchen, 0.5 - 1.8 gpm	\$7.27 per unit
Large Heat Pump Water Heater: Fuel Substitution	75 ≤ to < 100 gal, UEF = 3.0 replacing large natural gas, storage water heater, 80 gal, Et = 0.80	\$9.14 - \$64.00 per CapOut-kBtuh
	≥ 100 gal, COP = 4.3 replacing large natural gas, storage water heater, 100 gal, ≥76 kBtu/hr, Et = 0.80	\$18.00 - 105.00 per CapOut-kBtuh
Low-Flow Showerhead	Commercial showerhead flow control valve, 1.0 - 1.8 gpm	\$2.45 - \$20.00 per unit
	Commercial showerhead, 1.0 - 1.7 gpm	\$1.52 - \$15.00 per unit
Recirculation Pump Timer		\$400.00 per unit
Storage Water Heater	System size 30 gallons, ≤75 kBtu/hr	\$0.01 - \$6.89 per Cap-kBtuh
	System size 40 gallons, ≤75 kBtu/hr	\$0.05 - \$4.86 per Cap-kBtuh
	System size 50 gallons, ≤75 kBtu/hr	\$0.65 - \$8.74 per Cap-kBtuh
	>75kBtu/hr	\$5.84 - \$28.00 per Cap-kBtuh
Tankless Water Heater	Small instant water heater, <200 kBtu/hr, 0.81 - 0.96 UEF	\$0.46 - \$8.28 per Cap-kBtuh
	Small/medium instant water heater, <200 kbtu/hr, 84% - 96% TE	\$1.35 - \$8.20 per Cap-kBtuh
	Large instant water heaters, ≥200 kbtu/hr, 84% - 96% TE	\$3.17 - \$19.00 per Cap-kBtuh



HVAC

Equipment		Estimated Incentive
Air-Cooled Chiller	Air cooled constant speed screw chiller (\geq 150 tons, 11.1 EER, 15.4 IPLV)	\$13.00 - \$62.00 per Cap-Tons
	Air cooled constant speed screw chiller (< 150 tons, 11.1 EER, 15.1 IPLV)	\$13.00 - \$62.00 per Cap-Tons
	Air cooled constant speed screw chiller (\geq 150 tons, 12.1 EER, 16.8 IPLV)	\$23.00 - \$114.00 per Cap-Tons
	Air cooled constant speed screw chiller (< 150 tons, 12.1 EER, 16.4 IPLV)	\$23.00 - \$114.00 per Cap-Tons
Air-Cooled Chiller, Path B	Air-cooled screw chiller, path B, < 150 tons, tier 1 (10.4 EER, 17.7 IPLV)	\$15.00 - \$73.00 per Cap-Tons
	Air-cooled screw chiller, path B, < 150 tons, tier 2 (10.4 EER, 19.0 IPLV)	\$62.00 - \$128.00 per Cap-Tons
	Air-cooled screw chiller, path B, \geq 150 tons, tier 1 (10.4 EER, 18.0 IPLV)	\$15.00 - \$33.00 per Cap-Tons
	Air-cooled screw chiller, path B, \geq 150 tons, tier 2 (10.4 EER, 19.3 IPLV)	\$56.00 per Cap-Tons
Cogged V-Belt for HVAC Fan	Cogged V-belt for HVAC fans, normal replacement	\$0.03 - \$0.50 per Cap-Tons
Demand Control Ventilation for Single Zone HVAC	Add DCV, ADEC and CO2 sensor, DX only	\$0.11 - \$18.00 per Cap-Tons
	Add DCV, ADEC and CO2 sensor, DX furnace	\$1.24 - \$38.00 per Cap-Tons
	Add DCV, ADEC and CO2 sensor, heat pump	\$1.47 - \$24.00 per Cap-Tons
	Add DCV and CO2 sensor, DX only with ADEC	\$0.11 - \$18.00 per Cap-Tons
	Add DCV and CO2 sensor, DX furnace with ADEC	\$1.24 - \$38.00 per Cap-Tons
	Add DCV and CO2 sensor, heat pump with ADEC	\$1.47 - \$24.00 per Cap-Tons
Economizer Controls	Economizer control adjustment on AC only unit	\$0.33 per Cap-Tons
	Economizer control adjustment on AC unit with gas heat	\$0.34 per Cap-Tons
	Economizer control adjustment on heat pump	\$0.30 per Cap-Tons

	Economizer control adjustment on variable volume AC unit with gas heat	\$0.05 per Cap-Tons
	Economizer control replacement on AC only unit	\$0.33 per Cap-Tons
	Economizer control replacement on AC unit with gas heat	\$0.34 per Cap-Tons
	Economizer control replacement on heat pump	\$0.30 per Cap-Tons
	Economizer control replacement on variable volume AC unit with gas heat	\$0.05 per Cap-Tons
Enhanced Ventilation for Packaged HVAC	Various Configurations	\$16.00 - \$194.00 per Cap-Tons
Evaporative Pre-Cooler System and Controls for Packaged HVAC Unit	HVAC package unit evaporative pre-cooler system and controls, add-on equipment	\$0.28 - 24.00 per Cap-Tons



HVAC (continued)

Equipment		Estimated Incentive
Package Terminal Air Conditioner or Heat Pump	PTAC, Cooling Capacity ≤24 kBtuh	\$41.00 - \$110.00 per Cap-Tons
	PTHP, Cooling Capacity ≤24 kBtuh	\$45.00 - \$115.00 per Cap-Tons
Packaged Heat Pump Air Conditioner: Fuel Substitution	Commercial, Various Configurations, Gas to Electric	\$0.07 - \$695.00 per Cap-Tons
Software-Controlled Switch Reluctance Motor (SRM)	Fan motors between 1 to 3 hp	\$5.90 - \$34.00 per rated hp
	Fan motors between 1 to 15 hp	\$105.00 - \$455.00 per rated hp
Supply Fan Controls	AC only unit, AC unit with gas heat, heat pump, variable volume AC unit with gas heat pump	\$3.50 – 7.47 per Cap-Tons
Unitary Air-Cooled Air Conditioner: Over 65 kBtu/hr,	commercial packaged AC, various configurations	\$1.29 - \$122.00 per Cap-Tons
	commercial packaged HP, various configurations	\$1.57 - \$32.00 per Cap-Tons

Unitary Air-Cooled Air Conditioner: Under 65 kBtu/hr,	Under 65 kBtu/hr, commercial packaged AC, with no economizer, various configurations	\$4.20 - \$206.00 per Cap-Tons
	Under 65 kBtu/hr, commercial split AC, with no economizer, various configurations	\$4.20 - \$191.00 per Cap-Tons
	Under 65 kBtu/hr, commercial packaged HP, with no economizer, various configurations	\$4.22 - \$189.00 per Cap-Tons
	Under 65 kBtu/hr, commercial split HP, with no economizer, various configurations	\$5.11 - \$208.00 per Cap-Tons
VSD for HVAC Fan Controls	VSD on HVAC Fan Control	\$136.00 - \$258.00 per rated-hp
Water Cooled Chiller	Water cooled centrifugal chiller w/1 conventional VSD compressor and condenser relief (various configurations)	\$2.61 - \$37.00 per Cap-Tons
	Water cooled variable speed screw chiller (various configurations)	\$2.61 - \$42.00 per Cap-Tons



Lighting

Equipment		Estimated Incentive
UL Type B LED Mogul Base Lamp HID Retrofits for Outdoor Area/Pole and Decorative Fixtures	Various configurations	\$1.05 - \$112.00 per lamp

Process

Equipment		Estimated Incentive
Circulating Block Heater	Generator Size 37-199 kW, undersized or properly sized base case	\$ 159.00 - \$499.00 per unit
	Generator Size 200-799 kW, undersized or properly sized base case	\$88.00 per unit

Recreation

Equipment		Estimated Incentive
Pool Cover	Commercial, Outdoor	\$1.54 - \$2.11 per pool area ft sq
Heater for Pool or Spa, Commercial and Multifamily	Indoor/Outdoor Various configurations	\$0.64 - \$5.16 Cap-kBTU/h

Refrigeration

Equipment		Estimated Incentive
Anti-Sweat Heater (ASH) Controls	ASH Controls Low Temperature	\$25.00 - \$35.00 per len-ft
	ASH Controls Medium Temperature	\$4.76 - \$20.00 per len-ft
Bare Suction Line Insulation	Cooler	\$1.29 - \$3.07 per len-ft
	Freezer	\$5.80 - \$11.00 per len-ft
Fan Motor Retrofit for a Refrigerated Display Case	Electrically Commutated (EC) motor replacing Permanent Split Capacitor (PSC) motor, (Medium and Low Temp)	\$13.00 - 20.00 per unit
	Electrically Commutated (EC) motor replacing Shaded Pole (SHP) motor, (Medium and Low Temp)	\$24.00 - \$38.00 per unit
	Permanent Magnet Synchronous (PMS) motor replacing Permanent Split Capacitor (PSC) motor/blades, (Medium and Low Temp)	\$26.00 - \$39.00 per unit
	Permanent Magnet Synchronous (PMS) motor replacing Shaded Pole (SHP) motor/blades, (Medium and Low Temp)	\$37.00 - \$58.00 per unit
Floating Head Pressure Controls	Control for air-cooled condensers with cycling fan controls	\$38.00 - \$69.00 per Cap-Tons
	Control for air-cooled condensers with VFD fan controls	\$81.00 - \$120.00 per Cap-Tons
	Control for evap-cooled condensers with cycling fan controls	\$93.00 - \$135.00 per Cap-Tons
	Control for evap-cooled condensers with VFD fan controls	\$101.00 - \$143.00 per Cap-Tons
Low-Temperature Coffin to Reach-In Display Case Conversion	Narrow or Wide Case Width	\$50.00 per len-ft
Low-Temperature Display Case Doors with no Anti-Sweat Heaters	Low-temperature reach-in display cases equipped with special display case glass doors that have no anti-sweat heaters	\$27.00 - \$58.00 per len-ft
Medium or Low-Temperature Display Case with Doors	Cooler, Medium Temperature	\$214.00 - \$304.00 per len-ft
	Freezer, Low Temperature	\$332.00 - \$332.00 per len-ft
Medium-Temperature Case Doors	Vertical ref case, med. temp: open w/ night covers to closed (retrofit)	\$55.00 - \$120.00 per len-ft
	Vertical ref case, med. temp w/ night covers: open to closed with LED	\$69.00 - \$132.00 per len-ft
Medium-Temperature Open Display Case Retrofit	Medium temp open vertical refrigerated display case with a high efficiency evaporator coil	\$19.00 - \$24.00 per len-ft
Reach-In Refrigerator or Freezer	Glass-Door Reach-In Refrigerator	\$23.00 - \$108.00 per unit
	Solid-Door Reach-In Refrigerator	\$39.00 - \$98.00 per unit
	Glass-Door Reach-In Freezer	\$58.00 - \$320.00 per unit
	Solid-Door Reach-In Freezer	\$29.00 - \$210.00 per unit
Ultra-Low Temperature Freezer	Volume 15 to <24 ft ³	\$215.00 - \$584.00 per unit
	Volume 24 to 29 ft ³	\$434.00 - \$1,172.00 per unit



Equipment Specifications

Appliance

Gas Dryer Modulating Valve

Incentives Available for: SDG&E Gas Customers

Requirements:

- A professional installer will be required for all installations of this product as the inlet natural gas line will have to be removed and reattached during installation.
- The natural gas dryer must not be modified by any technology that would reduce the natural gas consumption beyond the manufacturer specifications.
- The dryer must have an accessible gas valve assembly and room to install the modulating device in the unit and on the unit exhaust.
- The dryer must have a drum capacity ranging from 20 lbs. to 200 lbs.
- All applicants must have their dryers on site.

Restrictions:

- A dryer that makes use of a common or dedicated steam system is not eligible.
- Dryers with a capacity greater than 200 lbs or less than 20 lbs are not eligible

Measure Incentive Table

Measure Code	Equipment Description	2024 Estimated Incentive
SWAP012-02-A	Gas dryer modulating valve	\$84.00 - \$637.00 per unit

Ozone Laundry System

Incentives Available for: SDG&E Gas Customers

Requirements:

- Customer must have a natural gas-fired boiler or natural gas water heater that supplies hot water to the on-premises laundry equipment.
- Ozone laundry system must be a new, purchased product and must be added onto a new or existing commercial washing machine.
- Ozone laundry system must transfer ozone into the water through venturi injection or bubble diffusion.
- Incentive is only applicable for the following existing building types:

<input type="radio"/> Lodging – Hotel	<input type="radio"/> Health/Medical – Hospital
<input type="radio"/> Lodging – Motel	<input type="radio"/> Health/Medical – Nursing Home
<input type="radio"/> Health Centers	<input type="radio"/> Correctional Facilities

Restrictions:

- The washing capacity of each washing machine must be rated at 200 pounds or less.
- Laundry systems equipped with tunnel washers are not eligible.
- Replacements of existing ozone laundry systems, whether they are functioning or not, do not qualify.
- This measure is not applicable in residential or multifamily facilities and coin operated laundromats.

Measure Incentive Table

Measure Code	Equipment Description	2024 Estimated Incentive
SWAP005-03-A	Ozone Laundry System	\$90.00 - \$112.00 per lb of laundry capacity*

* Incentive amount is based on the washing machine capacity that is connected to the ozone laundry system

Vending and Beverage Merchandise Controller

Incentives Available for: SDG&E Electric and Gas Customers

This measure is defined as an occupancy sensor-based control that is installed on an existing vending machine or beverage merchandise cooler.

Requirements:

- The Beverage Merchandise Controller (BMC) must.
 - Turn off the lights and the compressor when the surrounding area is unoccupied for 15 minutes to one hour, or if there is no sales traffic for a given period of time.
 - Periodically power the cooler back on at a maximum increment of every four hours to reasonably maintain product temperatures.
 - Be rated for 120 VAC applications.
- Existing beverage merchandise coolers must have.
 - Either glass sliding doors or glass pull-open doors.
 - A self-contained condensing unit.
 - Be used to maintain temperatures of non-perishable products.
- Existing refrigerated vending machines must contain only non-perishable bottled and canned beverages.

Restrictions:

- Host equipment with integrated low power mode capabilities is not eligible.
- Host equipment located outdoors is not eligible.
- Beverage merchandise coolers that were manufactured on or after March 27, 2017, which must be compliant with Title 20 requirements are not eligible.
- Canned vending machines that were manufactured on or after January 8, 2019, which must be compliant with Title 20 requirements are not eligible.

Measure Incentive Table

Measure Code	Equipment Description	2024 Estimated Incentive
SWAP011-04-A	Double-door beverage merchandise cooler controller	\$38.00 - \$47.00 Each
SWAP011-04-B	One-door beverage merchandise cooler controller	\$27.00 - \$34.00 Each
SWAP011-04-C	One-door under-counter beverage merchandise cooler controller	\$20.00 - \$25.00 Each
SWAP011-04-D	Triple-door beverage merchandise cooler controller	\$53.00 - \$66.00 Each
SWAP011-04-E	Cold vending machine controller	\$32.00 - \$56.00 Each
SWAP011-04-F	Snack vending machine controller	\$2.34 - \$6.29 Each

Compressed Air

VFD Retrofit for Air Compressor

Incentives Available for: SDG&E Gas Customers

This measure is defined as a variable speed drive (VSD) on an existing rotary screw air compressor with rated capacity ≥ 5 hp (4 kW) and < 25 hp (18 kW).

Requirements:

- The existing compressor shall meet the following eligibility requirements:
 - Must be a rotary screw compressor.
 - Must have a horsepower rating ≥ 5 hp and < 25 hp (18 kW)
 - Must operate in a stand-alone capacity or as a trim compressor, i.e. not base loaded in a multiple compressor system
 - Must be permanently installed
 - Customer compressed air pressure and flow rate must not be modified. Customer baseline hours of operation must remain the same
 - Customer must comply with Title 24: Section 120.6(e). Mandatory Requirements for Compressed Air Systems
- This measure is applicable only for the following building types:
 - Health/Medical - Hospital
 - Manufacturing - Bio/Tech
 - Manufacturing - Light Industrial
 - Office – Small
 - Retail - Single-Story Large

Restrictions:

- The following exclusions apply for this measure:
 - Air compressor systems (online capacity) rated 25 hp and greater are not eligible due to Title 24 (2022) code requirements.
 - Portable compressors are not eligible.
 - Cyclic refrigerated dryers are not eligible.

Measure Incentive Table

Measure Code	Equipment Description	2024 Estimated Incentive
SWCA001-04-A	Air compressor VFD, 5 to < 15 hp	\$20.00 - \$164.00 per Rated-HP
SWCA001-04-B	Air compressor VFD, 15 to < 25 hp	\$10.00 - \$83.00 per Rated-HP

Food Service Specifications

Automatic Conveyor Broiler

Incentives Available for: SDG&E Electric and Gas Customers

Requirements:

- The replacement automatic conveyor broiler must have a catalyst and an input rate less than 80 kBtu/hr or a dual stage or modulating gas valve with a capability of throttling the input rate below 80 kBtu/hr
- The existing (base case) broiler must be an automatic conveyor broiler that can maintain a temperature above 600°F with a tested idle rate greater than:
 - 40 kBtu/hr for a belt narrower than 20"
 - 60 kBtu/hr for a belt between 20" and 26"
 - 70 kBtu/hr for a belt wider than 26"
- The conveyor broiler must be replaced by a conveyor broiler similar in size or smaller.

Restrictions:

- Used or rebuilt equipment are not eligible.

Measure Incentive Table & Efficiency Requirements

Measure Code	Equipment Description	Base Case	2024 Estimated Incentive
SWFS017-03-A	Width <20 inches	Idle rate >40 kBtu/hr	\$2,523.00 per unit
SWFS017-03-B	Width 20–26 inches	Idle rate >60 kBtu/hr	\$3,146.00 per unit
SWFS017-03-C	Width >26 inches	Idle rate >70 kBtu/hr	\$3,658.00 per unit

Combination Oven

Incentives Available for: SDG&E Electric and Gas Customers

Requirements:

- The commercial electric and natural gas combination oven must meet ENERGY STAR® specifications for energy efficiency or meet the efficiency requirements listed in the tables below

Restrictions:

- Used or rebuilt equipment are not eligible

Eligibility Requirements

Combination Oven Type	Steam Mode Cooking Efficiency (%)	Convection Mode Cooking Efficiency (%)	Steam Mode Idle Rate	Convection Mode Idle Rate
Electric < 15 pan	≥ 50	≥ 70	≤ 5.0 kW	≤ 2.0 kW
Electric 15-28 pan	≥ 50	c 70	≤ 6.0 kW	≤ 2.5 kW
Electric > 28 pan	≥ 50	≥ 70	≤ 9.0 kW	≤ 4.0 kW
Gas < 15 pan	≥ 38	≥ 44	≤ 15,000 Btu/hr	≤ 8,000 Btu/hr
Gas 15-28 pan	≥ 38	≥ 44	≤ 18,000 Btu/hr	≤ 10,000 Btu/hr
Gas > 28 pan	≥ 38	≥ 44	≤ 28,000 Btu/hr	≤ 16,000 Btu/hr

Measure Incentive Table

Measure Code	Fuel	Equipment Description	2024 Estimated Incentive
SWFS003-04-A	Electric	Size <15 Pan Model	\$ 396.00 per unit
SWFS003-04-B		Size 15-28 Pan Model	\$1,213.00 per unit
SWFS003-04-C		Size >28 Pan Model	\$1,297.00 per unit
SWFS003-04-D	Gas	Size <15 Pan Model	\$565.00 per unit
SWFS003-04-E		Size 15-28 Pan Model	\$622.00 per unit
SWFS003-04-F		Size >28 Pan Model	\$906.00 per unit

Convection Oven

Incentives Available for: SDG&E Gas Customers

Requirements:

- All qualifying convection oven models must be approved and listed in the California Energy Commission (CEC) certified appliance database or must meet the ENERGY STAR Version 3.0 eligibility criteria (Included in Measure Incentive Table)

Restrictions:

- Used or rebuilt equipment are not eligible.

Measure Incentive Table

Measure Code	Fuel	Equipment Description	Max Idle Energy Rate	Min Cooking Energy Efficiency	2024 Estimated Incentive
SWFS001-02-A	Electric	Efficient commercial convection oven, half, electric	1.0 kW	71%	\$427.33 per unit
SWFS001-02-B		Efficient commercial convection oven, full, electric	1.6 kW	71%	\$351.80 per unit

Convection Oven: Fuel Substitution

Incentives Available for: SDG&E Gas Customers

Requirements:

- The following data must be submitted for all projects.
 - What is the existing fuel type for space heating?
 - All qualifying convection oven models must be approved and listed in the California Energy Commission (CEC) certified appliance database or must meet the ENERGY STAR Version 3.0 eligibility criteria.
 - Did the owner install any other electrification measures at this site? If yes, list the measures and provide the itemized invoices with infrastructure upgrade costs (if any).
- This measure is applicable for specific commercial building types providing food service, listed below.

○ Education – College, University, Primary, Secondary	○ Health/Medical – Hospital, Nursing Home
○ Grocery	○ Restaurants – Fast Food, Sit-Down
○ Lodging - Hotel	○ Retail – Large, Small

Restrictions:

- As this is a fuel substitution measure, it is only eligible for replacement of existing gas equipment.
- This measure is not eligible for new construction buildings.

Measure Incentive Table

Measure Code	Equipment Description	2024 Estimated Incentive
SWFS022-03-A	Efficient, Commercial Convection Oven, Half, Gas to Electric	\$509.00 per unit
SWFS022-03-B	Efficient, Commercial Convection Oven, Full, Gas to Electric	\$1,056.00 per unit

Conveyor Oven

Incentives Available for: SDG&E Gas Customers

Requirements:

- This measure includes new commercial gas conveyor ovens that exceed cooking energy efficiency of $\geq 42\%$ and have an idle energy rate $\leq 57,000$ Btu/hr, utilizing ASTM Standard F1817.

Restrictions:

- Used or rebuilt equipment is not eligible. Half-size gas convection is not eligible.

Measure Incentive Table

Measure Code	Equipment Description	2024 Estimated Incentive
SWFS008-02-A	Conveyor Oven, Gas	\$1,256.00 per unit

Contact Conveyor Toaster

Incentives Available for: SDG&E Electric Customers

Requirements:

- This measure includes new commercial conveyor toasters with an energy per sandwich less than or equal to 3.75 W/bun. Energy per sandwich is a function of the cooking energy rate and the production capacity
- Equipment spec sheets will generally have a rated wattage and production capacity which can be used to confirm eligibility

Restrictions:

- Used or rebuilt equipment is not eligible.
- Radiant conveyor toasters are not eligible.

Formula for Estimating Energy per Sandwich

$$\text{Energy per Sandwich} = \frac{\text{cooking energy rate} \times W/kW}{\text{production capacity}}$$

- Cooking energy rate = measured energy rate during cooking mode (kW/hour)
- Production capacity = number of sandwiches a unit can cook per hour (buns/hour)
- W/kW = constant – 1000 watts per kilowatt (W/kW)

Example:

- Rated wattage = 2400 W
- Production Capacity = 700 Slices Per Hour
- Energy Per Sandwich = 2400 W/ 700 Slices = 3.42W/Slice

Measure Incentive Table

Measure Code	Equipment Description	2024 Estimated Incentive
SWFS023-03-A	Conveyor Toaster, Commercial	\$322.00 per unit

Door-Type Dishwasher

Incentives Available for: SDG&E Electric and Gas Customers

Requirements:

- This measure includes new commercial high-temperature door-type dishwashers that meet the efficiency requirements described below
- The measure case specification includes high-temperature dishwasher offerings based upon the ENERGY STAR Commercial Dishwashers Version 3.0. The Tier 1 measure offerings meet the maximum water consumption and idle energy rate specifications, while the Tier 2 offering uses water consumption are 15% lower than the ENERGY STAR requirements.

Restrictions:

- Used or rebuilt equipment is not eligible.
- Other dishwasher types (conveyor, under-counter, flight-type) are not eligible.

Electric Door-Type Dishwasher Efficiency Requirements

Tier	Temperature	Max Water Consumption (gal/rack)	Max Washing Energy (kWH/Rack)	Max Idle Energy Rate (kW)
Tier 1	High	0.89	0.35	0.55
Tier 2	High	0.76	0.35	0.55
Tier 1	Low	1.18	0.15	0.30
Tier 2	Low	1.00	0.15	0.30

Measure Incentive Table

Measure Code	Equipment Description	2024 Estimated Incentive
SWFS002-04-A	Efficient, Commercial Dishwasher, High Temp, Tier 2	\$1,126.00 - \$1,327.00 per unit
SWFS002-04-B	Efficient, Commercial Dishwasher, Low Temp, Tier 2	\$789.00 – \$976.00 per unit
SWFS002-04-C	Efficient, Commercial Dishwasher, High Temp, Tier 1	\$622.00 – \$727.00 per unit
SWFS002-04-D	Efficient, Commercial Dishwasher, Low Temp, Tier 1	\$267.00 per unit

Fryer

Incentives Available for: SDG&E Gas Customers

Requirements:

- The commercial natural gas fryer must meet ENERGY STAR specifications for energy efficiency or meet the efficiency requirements listed in the table below.

Restrictions:

- Used or rebuilt equipment is not eligible.

Fryer Efficiency Requirements

Measure Code	Fuel Type	Fryer Type	Heavy Load Cooking Efficiency	Idle Energy Rate
SWFS011-05-A	Electric	Standard	≥ 83%	≤ 800 Watts
		Large Vat	≥ 80%	≤ 1,100 Watts
SWFS011-05-B	Gas – Tier 1	Standard	≥ 50%	≤ 9,000 Btu/hr
		Large Vat	≥ 50%	≤ 12,000 Btu/hr
SWFS011-05-C	Gas – Tier 1	Standard/Large Vat	≥ 60%	≤ 6,100 Btu/hr

Measure Incentive Table

Measure Code	Equipment Description	2024 Estimated Incentive
SWFS011-05-A	Efficient commercial fryer, electric	\$87.00 per unit
SWFS011-05-B	Efficient commercial fryer, gas (tier 1)	\$636.00 per unit
SWFS011-05-C	Efficient commercial fryer, gas (tier 2)	\$965.00 per unit

Fryer: Fuel Substitution

Incentives Available for: SDG&E Gas Customers

Requirements:

- This measure includes new electric commercial fryers that are ENERGY STAR-qualified.
- As this is a fuel substitution measure, the new fryer must replace existing gas equipment.
- The following data must be submitted for all projects.
 - What is the existing fuel type for the existing equipment?
 - Did the site require any electric infrastructure upgrades for the proposed electrification measure? If yes, provide the itemized invoices with infrastructure upgrade costs.
 - Did the owner install any other electrification measures at this site? If yes, list the measures and provide the itemized invoices with infrastructure upgrade costs (if any).
- This measure is applicable for specific commercial building types providing food service, listed below.

○ Education – College, University, Primary, Secondary	○ Health/Medical – Hospital, Nursing Home
○ Grocery	○ Restaurants – Fast Food, Sit-Down
○ Lodging - Hotel	○ Retail – Large, Small

Restrictions:

- Used or rebuilt equipment is not eligible.

Fryer Efficiency Requirements

Measure Code	Fuel Type	Fryer Type	Heavy Load Cooking Efficiency	Idle Energy Rate
SWFS021-04-A	Electric	Standard	≥ 83%	≤ 800 Watts
		Large Vat	≥ 80%	≤ 1,100 Watts

Measure Incentive Table

Measure Code	Equipment Description	2024 Estimated Incentive
SWFS021-04-A	Efficient, commercial fryer, electric	\$3,002.00 per unit

Griddle

Incentives Available for: SDG&E Electric and Gas Customers

Requirements:

- The commercial natural gas and electric griddle must meet ENERGY STAR specifications for energy efficiency or meet the efficiency requirements listed in the table below

Restrictions:

- Double-sided griddles are not eligible
- Used or rebuilt equipment are not eligible

Electric Griddle Efficiency Requirements

Fuel	Preheat Energy (kWh)	Idle Energy Rate (kW)	Cooking Efficiency (%)	Production Capacity (lb / hr)
Electric	2.0	1.76	75%	49.0

Gas Griddle Efficiency Requirements

Fuel	Preheat Energy (Btu)	Idle Energy Rate (Btuh)	Cooking Efficiency (%)	Production Capacity (lb / hr)
Gas	15,000	12,408	46%	49.2

Measure Incentive Table

Measure Code	Equipment Description	2024 Estimated Incentive
SWFS004-02-A	Commercial Griddle, Electric	\$183.00 per len-ft
SWFS004-02-B	Commercial Griddle, Gas	\$375.00 per len-ft

Commercial Hand-Wrap Machine

Incentives Available for: SDG&E Electric Customers

Requirements:

- New commercial on-demand hand-wrap machine must replace a conventional or always-on hand-wrap machine
- Commercial hand-wrap machine must either use a mechanical or optical control system

Restrictions:

- Used or rebuilt equipment are not eligible

Measure Incentive Table

Measure Code	Equipment Description	2024 Estimated Incentive
SWFS010-03-A	Hand-Wrap Machine, Electric	\$192.00 per unit

Insulated Hot Food Holding Cabinet

Incentives Available for: SDG&E Electric Customers

Requirements:

This measure includes new full-size (≥ 15 ft³) and half-size (< 15 ft³) insulated food holding cabinets. Eligible products must meet the following requirements:

- Qualifying cabinets must not exceed the maximum idle energy rate of 25 W/ft³ for full-size cabinets and 35 W/ft³ for half-size cabinets, in accordance with the American Society for Testing and Materials (ASTM) Standard Test Method for the Performance of Hot Food Holding Cabinets (F2140).
- All measures must be electric hot food holding cabinets that are fully insulated (i.e., on all sides) and have solid or transparent doors designed to maintain the temperature of hot food that has been cooked using a separate appliance.
- Eligible holding cabinets must be listed on the Food Service Technology Center (FSTC) qualified product list (<https://caenergywise.com/incentives/>).

Restrictions:

- Cook-and-hold or retherm equipment are not eligible
- Used or rebuilt equipment are not eligible
- Cabinets must have an electric resistance heating element. Passive holding cabinets with no heating elements are not eligible

Hot Food Holding Cabinet Efficiency Requirements

Cabinet Size	Cabinet Volume (ft ³)	Normalized Idle Energy Rate (W/ft ³)
Full	25.00	25.00
Half	10.00	35.00

Measure Incentive Table

Measure Code	Equipment Description	2024 Estimated Incentive
SWFS007-04-A	Commercial Hot Food Holding Cabinet, Full, Electric	\$147.00 per unit
SWFS007-04-B	Commercial Hot Food Holding Cabinet, Half, Electric	\$77.00 per unit

Ice Machine

Incentives Available for: SDG&E Electric Customers

Requirements:

- Only air-cooled machines (self-contained, icemaker heads, or remote condensing) are eligible
- Ice Machine minimum daily ice harvest rate must be ≥ 50 lbs ice/day.
- The entire AHRI-tested ice making system must be purchased.
- Remote machines must be purchased with qualifying remote condenser or remote condenser/compressor unit.
- Models must meet Energy Star Version 3.0 specifications.

Restrictions:

- Used or rebuilt equipment are not eligible.
- Water-cooled ice machines do not qualify.

Batch Type Automatic Commercial Ice Makers - ENERGY STAR V3.0 Efficiency Requirements

Equipment Type	Daily Ice Harvest Rate (lbs Ice/24 Hrs)	Max. Daily Energy Use (kWh/100 lbs Ice)	Max. Daily Potable Water Use Limit (gal/100 lbs of Ice)
Self-contained Unit (SCU)	$H < 110$	$12.57 - 0.0399 \times H$	25
	$110 \leq H < 200$	$10.56 - 0.0215 \times H$	
	$200 \leq H \leq 4000$	6.25	
Ice Maker Head (IMH)	$H < 300$	$9.20 - 0.01134 \times H$	20
	$300 \leq H < 800$	$6.49 - 0.0023 \times H$	
	$800 \leq H \leq 1500$	$5.11 - 0.00058 \times H$	
	$1500 \leq H \leq 4000$	4.24	
Remote Condensing Unit (RCU)	$H < 988$	$7.17 - 0.00308 \times H$	20
	$988 \leq H \leq 4000$	4.13	

H = Daily Harvest Rate (lbs Ice/24 Hrs)

Continuous Type Automatic Commercial Ice Makers - ENERGY STAR V3.0 Efficiency Requirements

Equipment Type	Daily Ice Harvest Rate (lbs Ice/24 Hrs)	Max. Daily Energy Use (kWh/100 lbs Ice)	Max. Daily Potable Water Use Limit (gal/100 lbs of Ice)
Self-Contained Unit (SCU)	$H < 200$	$12.37 - 0.0261 \times H$	15
	$200 \leq H \leq 700$	$8.24 - 0.005429 \times H$	
	$700 \leq H \leq 4000$	4.44	
Ice Maker Head (IMH)	$H < 310$	$7.90 - 0.005409 \times H$	15
	$310 \leq H < 820$	$7.08 - 0.002752 \times H$	
	$820 \leq H \leq 4000$	4.82	
	$H < 800$	$7.76 - 0.00464 \times H$	
Remote Condensing Unit (RCU)	$H < 800$	$7.76 - 0.00464 \times H$	15
	$800 \leq H \leq 4000$	4.05	

H = Daily Harvest Rate (lbs Ice/24 Hrs)

Ice Machine (cont.)

Measure Incentive Table

Measure Code	Equipment Description	Capacity	2024 Estimated Incentive
SWFS006-03-A	Self-Contained Unit (SCU)	Daily Harvest Rate <110 lbs/day	\$70.00 per unit
SWFS006-03-B		Daily Harvest Rate 110-199 lbs/day	\$89.00 per unit
SWFS006-03-C		Daily Harvest Rate ≥ 200 lbs/day	\$119.00 per unit
SWFS006-03-D	Ice Maker Head (IMH)	Daily Harvest Rate <300 lbs/day	\$78.00 per unit
SWFS006-03-E		Daily Harvest Rate 300-799 lbs/day	\$109.00 per unit
SWFS006-03-F		Daily Harvest Rate 800-1,499 lbs/day	\$173.00 per unit
SWFS006-03-G		Daily Harvest Rate ≥1,500 lbs/day	\$250.00 per unit
SWFS006-03-H	Remote Condensing Unit (RCU)	Daily Harvest Rate <988 lbs/day	\$190.00 per unit
SWFS006-03-I		Daily Harvest Rate ≥988 lbs/day	\$288.00 per unit

Low-Flow Pre-Rinse Spray Valve

Incentives Available for: SDG&E Gas Customers

Requirements:

- This measure is restricted to operations with natural gas water heaters only.

Restrictions:

- Used or rebuilt equipment is not eligible.

Measure Efficiency Requirements

Measure	Measure Flow Rate (GPM)	Existing Case Description	
		Force Limitations (OZF)	Maximum Flow Rate (GPM)
Low-flow pre-rinse spray valve, 0.75 - 1.07 gpm	0.75 - 1.07 gpm	> 5.0 ozf and ≤ 8.0 ozf	1.20 gpm
Low-flow pre-rinse spray valve, < 0.75 gpm	< 0.75 gpm	< 5.0 ozf	1.00 gpm

Measure Incentive Table

Measure Code	Equipment Description	2024 Estimated Incentive
SWFS013-03-A	Low-Flow Pre-Rinse Spray Valve, 0.75 - 1.07 gpm	\$16.00 - \$21.00 per unit
SWFS013-03-B	Low-Flow Pre-Rinse Spray Valve, < 0.75 gpm	\$13.00 per unit

Rack Oven

Incentives Available for: SDG&E Gas Customers

Requirements:

- This measure includes new commercial gas single or double rack ovens tested to meet or exceed baking energy efficiency of 50%

Restrictions:

- Used or rebuilt equipment is not eligible

Measure Incentive Table

Measure Code	Equipment Description	2024 Estimated Incentive
SWFS014-03-A	Commercial Rack Oven, Single-Rack, Gas	\$1,077.00 per unit
SWFS014-03-B	Commercial Rack Oven, Double-Rack, Gas	\$1,741.00 per unit

Refrigerated Chef Base

Incentives Available for: SDG&E Electric Customers

Requirements:

- The installed chef base must comply with the maximum daily energy consumption (MDEC) value corresponding to the correct size. The MDEC is determined from Version 5.0 of the Energy Star program requirements for commercial refrigerators and freezers. The equation for Energy Star MDEC is as follows:
 - Energy Star MDEC = $0.05 \times V + 2.1$

Restrictions:

- Used or rebuilt equipment is not eligible.

Measure Incentive Table

Measure Code	Equipment Description	2024 Estimated Incentive
SWFS016-03-E	V, is constrained by $0 \leq V < 7.5 \text{ ft}^3$	\$39.00 per unit
SWFS016-03-F	V, is constrained by $7.5 \leq V < 15 \text{ ft}^3$	\$100.00 per unit
SWFS016-03-G	V, is constrained by $15 \leq V < 22.5 \text{ ft}^3$	\$160.00 per unit
SWFS016-03-H	V, is constrained by $22.5 \leq V < 30 \text{ ft}^3$	\$218.00 per unit

Steamer

Incentives Available for: SDG&E Electric and Gas Customers

Requirements:

- The commercial natural gas and electric steam cooker must meet the ENERGY STAR Program Requirements for Commercial Steam Cookers, Version 1.2 specifications to qualify.

Electric Steam Cooker Energy Efficiency Requirements

Pan Capacity	Heavy Load Cooking Energy Efficiency	Idle Rate (watts)
3-pan	50%	400
4-pan	50%	530
5-pan	50%	670
6-pan and greater	50%	800

Gas Steam Cooker Energy Efficiency Requirements

Pan Capacity	Heavy Load Cooking Energy Efficiency	Idle Rate (Btu/h)
3-pan	38%	6,250
4-pan	38%	8,350
5-pan	38%	10,400
6-pan and greater	38%	12,500

Measure Incentive Table

Measure Code	Equipment Description	2024 Estimated Incentive
SWFS005-04-A	Efficient Commercial Steamer, Electric	\$515.00 per unit
SWFS005-04-B	Efficient Commercial Steamer, Gas	\$2,059.00 per unit

Undercounter Dishwasher

Incentives Available for: SDG&E Electric and Gas Customers

Requirements:

- This measure includes new commercial low- and high-temperature undercounter dishwashers that meet the efficiency requirements presented in the table below.
- The measure case specification is based upon the ENERGY STAR Commercial Dishwashers Version 3.0

Restrictions:

- Used or rebuilt equipment is not eligible
- Other dishwasher types (conveyor, door-type, flight-type) are not eligible

Electric Undercounter Dishwasher Efficiency Requirements

Tier	Max. Water Consumption (GPR)	Max Washing Energy (kWh/Rack)	Max. Idle Energy Rate (kW)
High Temp, Tier 1	0.86	0.35	0.30
High Temp, Tier2	0.73	0.35	0.30
Low Temp, Tier 1	1.19	0.15	0.25
Low Temp, Tier 2	1.01	0.15	0.25

Measure Incentive Table

Measure Code	Equipment Description	2024 Estimated Incentive
SWFS018-05-A	High Temp, Tier 1 (gal/rack <= 0.86, idle rate <= 0.30)	\$247.00 - \$289.00 per unit
SWFS018-05-B	High Temp, Tier 2 (gal/rack <= 0.73, idle rate <= 0.30)	\$381.00 - \$444.00 per unit
SWFS018-05-C	Low Temp, Tier 1 (gal/rack <= 1.19, idle rate <= 0.25)	\$221.00 - \$272.00 per unit
SWFS018-05-D	Low Temp, Tier 2 (gal/rack <= 1.01, idle rate <= 0.25)	\$336.00 - \$416.00 per unit

Underfired Broiler

Incentives Available for: SDG&E Gas Customers

Requirements:

- The measure case (replacement) underfired broiler must have an input rate ≤ 22 kBtu/hr/len-ft while maintaining a surface temperature of 600 °F, per ASTM F1695 standard.
- The existing (base case) broiler must be similar size or larger than the replacement unit

Restrictions:

- Used or rebuilt equipment is not eligible

Underfired Broiler Efficiency Requirements

Idle and Cooking Energy Rate per ft (Btuh)	Production Capacity (lb / Hr)
20,000.00	20.00

Measure Incentive Table

Measure Code	Equipment Description	2024 Estimated Incentive
SWFS019-02-A	Commercial Underfired Broiler, Gas	\$649 per len-ft

Hot Water Specifications

Boiler

Incentives Available for: SDG&E Gas Customers

Requirements:

- Manufacturer Specification Sheet that lists the boiler type, input rating, and efficiency rating must be submitted with the enrollment.
- Must meet the definition of a tankless water heater, as defined by the California Energy Commission:
 - Be used primarily for domestic hot water.
 - Provide hot water only when there is a hot water draw from the end use.
 - Have an input rating of at least 4,000 Btu/hr/gal of stored water.
- The installation address must have an active SDG&E gas account.

Restrictions:

- This measure does not include water heaters or hot water boilers used for space conditioning, industrial (process) end-use applications, pools, or spas.

Measure Incentive Table & Efficiency Requirements

Measure Code	Equipment Description	Required Minimum Efficiency	2024 Estimated Incentive
SWWH005-06-B	Small/medium DHW boiler, <200 kBtu/hr	0.87 UEF	\$3.51 - \$6.68 per Cap-kBTU _h
SWWH005-06-F	Small/medium DHW boiler, < 200 kBtu/hr	0.92 UEF	\$5.29 - \$6.87 per Cap-kBTU _h
SWWH005-06-G	Small/medium DHW boiler, < 200 kBtu/hr	0.96 UEF	\$6.63 - \$7.48 per Cap-kBTU _h
SWWH005-06-H	Large DHW boiler, ≥ 300 kBtu/hr	90% TE	\$2.36 - \$6.73 per Cap-kBTU _h
SWWH005-06-I	Large DHW boiler, ≥ 300 kBtu/hr	96% TE	\$4.66 - \$12.00 per Cap-kBTU _h

UEF = Uniform Energy Factor, TE = Thermal efficiency

Boiler: Process

Incentives Available for: SDG&E Gas Customers

Requirements:

- Boilers must meet efficiency requirements as shown in the table below

Restrictions:

- This measure is not applicable to boilers used for space heating, domestic hot water, pools, or spas, and is not eligible for domestic hot water or space heating
- New construction installations are not eligible

Measure Incentive Table

Measure Code	Equipment Description	Input Rating	Required Efficiency	2024 Estimated Incentive
SWWH008-01-A	Hot Water - 85% CE	< 20,000 kBtu/hr	CE ≥ 85%	\$2.95 per kBtuh
SWWH008-01-B	Hot Water - 90% CE		CE ≥ 90%	\$10.00 per kBtuh
SWWH008-01-C	Steam - 83% CE		CE ≥ 83%	\$4.35 per kBtuh

CE= Combustion Efficiency

Demand Control for Centralized Water Heater Recirculation Pump

Incentives Available for: SDG&E Gas Customers

The measure is defined as the replacement of the base case recirculation pump with a pump that utilizes flow control methods, such as variable frequency drives (VFDs), integrated or remote sensors, and control systems that respond to demand by controlling the domestic hot water recirculation loop temperature.

Requirements:

- The measure is applicable to commercial buildings that have a centralized, gas-fired, domestic hot water system with constant volume, fractional horsepower, and an uncontrolled recirculation pump. The following building types qualify for this measure:
 - Hotel, Motel, Nursing Home, and Education University Dormitory buildings
- This measure is only applicable to existing buildings with systems that utilize stand-alone domestic hot water systems.
- Hot water generation systems must be used primarily for domestic hot-water heating uses.
- The hot water supply and hot water return lines of the recirculation loop must maintain a temperature difference of at least 20 °F.
- The domestic hot water recirculation loop is located exclusively within the building envelope’s conditioned space.

Restrictions:

- This measure is not applicable for any building types other than commercial types: Hotel, Motel, Nursing Home, and Education University Dormitory.
- A hot-water generation system used for pool or spa heating are not eligible for this measure.
- Facilities that must maintain hot water temperature of 140 °F to control legionella bacteria are not eligible. Local, state and federal regulations must be followed to avoid the risk of legionella growth as well as scalding.

Measure Incentive Table & Efficiency Requirements

Measure Code	Equipment Description	2024 Estimated Incentive
SWWH015-03-K	DHW pump demand control, gas, Com, 25 units	\$3.64 - \$11.00 per Household
SWWH015-03-L	DHW pump demand control, gas, Com, 50 units	\$3.64 - \$11.00 per Household
SWWH015-03-M	DHW pump demand control, gas, Com, 75 units	\$3.64 - \$11.00 per Household
SWWH015-03-N	DHW pump demand control, gas, Com, 100 units	\$3.64 - \$11.00 per Household
SWWH015-03-O	DHW pump demand control, gas, Com, 125 units	\$3.64 - \$11.00 per Household
SWWH015-03-P	DHW pump demand control, gas, Com, 150 units	\$3.64 - \$11.00 per Household
SWWH015-03-Q	DHW pump demand control, gas, Com, 175 units	\$3.64 - \$11.00 per Household
SWWH015-03-R	DHW pump demand control, gas, Com, 200 units	\$3.64 - \$11.00 per Household
SWWH015-03-S	DHW pump demand control, gas, Com, 225 units	\$3.64 - \$11.00 per Household
SWWH015-03-T	DHW pump demand control, gas, Com, 250+units	\$3.64 - \$11.00 per Household

Domestic Hot Water Loop Temperature Controller

Incentives Available for: SDG&E Gas Customers

This measure is defined as the addition of a new “temperature modulation” boiler controller in the central water heating system of qualifying facilities to minimize the supply and return water temperatures and piping heat losses. The temperature modulation protocol is based on a real-time data stream or historical trending based on measured hot water draw patterns.

Requirements:

- This measure qualifies only for gas central hot-water systems used primarily for domestic hot-water heating.
- The incentive is only available for hotel, motel, nursing home and university dormitory building types with a gas central water heating system.

Restrictions:

- No other building types or applications are eligible.
- Central hot water systems with a demand-controlled recirculation pump are not eligible.
- Facilities that must maintain hot water temperature of 140 °F to control legionella bacteria are not eligible. Local, state and federal regulations must be followed to avoid the risk of legionella growth as well as scalding.

Measure Incentive Table & Efficiency Requirements

Measure Code	Equipment Description	2024 Estimated Incentive
SWWH016-03-K	Domestic Hot Water Loop Temperature Controller 25 units	\$3.31 - \$10.00 per household
SWWH016-03-L	Domestic Hot Water Loop Temperature Controller 50 units	\$3.31 - \$10.00 per household
SWWH016-03-M	Domestic Hot Water Loop Temperature Controller 75 units	\$3.31 - \$10.00 per household
SWWH016-03-N	Domestic Hot Water Loop Temperature Controller 100 units	\$3.31 - \$10.00 per household
SWWH016-03-O	Domestic Hot Water Loop Temperature Controller 125 units	\$3.31 - \$10.00 per household
SWWH016-03-P	Domestic Hot Water Loop Temperature Controller 150 units	\$3.31 - \$10.00 per household
SWWH016-03-Q	Domestic Hot Water Loop Temperature Controller 175 units	\$3.31 - \$10.00 per household
SWWH016-03-R	Domestic Hot Water Loop Temperature Controller 200 units	\$3.31 - \$10.00 per household
SWWH016-03-S	Domestic Hot Water Loop Temperature Controller 225 units	\$3.31 - \$10.00 per household
SWWH016-03-T	Domestic Hot Water Loop Temperature Controller 250+ units	\$3.31 - \$10.00 per household

Heat Pump Water Heater

Incentives Available for: SDG&E Gas Customers

Requirements:

- The heat pump water heater must meet the storage capacity and minimum efficiency requirements shown in the table below.
- In some cases, heat pump water heaters may contain multiple heat pump units. The efficiency of the measure case must be the efficiency of the package unit, not the efficiency of individual heat pumps that make up the unit.
- Split-system heat pump unit assemblies are eligible. However, they shall be treated as one package of one or more heat pumps serving a storage tank. Efficiency and performance ratings for the entire package shall be provided by the manufacturer. The efficiency of an individual heat pump within the package shall not be sufficient.
- This measure is only applicable to 1-for-1 replacements.
- Incentive is applicable for the following existing building types:

○ Assembly	○ Health/Medical – Hospital, Nursing Home
○ Education – Primary, Secondary, College, University, Relocatable Classroom	○ Office – Large, Small
○ Lodging – Motel, Hotel, Hotel Guest Room	○ Grocery
○ Retail – Small, Single Story Large, Multi-Story Large	○ Restaurant – Fast-Food, Sit-Down
	○ Storage – Unconditioned, Conditioned

Restrictions:

- Replacement of an "instantaneous" or "tankless" water heater does not qualify.
- A new heat pump water heater with a storage capacity of less than 45 gallons does not qualify.
- Replacement of non-electric baseline equipment is not eligible. For replacing existing gas water heating system to heat pump water heating system, please refer to SWWH027-04 Heat Pump Water Heater, Commercial, Fuel Substitution.
- Replacing a single existing water heater with multiple heat pump water heaters is not eligible.

Measure Incentive Table & Efficiency Requirements

Measure Code	Equipment Description	2024 Estimated Incentive
SWWH031-02-P	Heat pump water heater, > 75 gal, UEF = 3.30, replacing heat pump water heater, 75 gal, UEF = 3.00	\$139.00 - \$402.00 per unit
SWWH031-02-Q	Heat pump water heater, > 75 gal, UEF = 3.50, replacing heat pump water heater, 75 gal, UEF = 3.00	\$182.00 - \$544.00 per unit
SWWH031-02-R	Heat pump water heater, > 75 gal, UEF = 3.75, replacing heat pump water heater, 75 gal, UEF = 3.00	\$272.00 - \$892.00 per unit
SWWH031-02-S	Heat pump water heater, => 45 to <= 55 gal, UEF = 3.30, replacing electric storage water heater, 30 gal, UEF = 0.92	\$846.00 - \$1,256.00 per unit
SWWH031-02-T	Heat pump water heater, => 45 to <= 55 gal, UEF = 3.30, replacing electric storage water heater, 40 gal, UEF = 0.92	\$836.00 - \$1,129.00 per unit
SWWH031-02-U	Heat pump water heater, => 45 to <= 55 gal, UEF = 3.30, replacing electric storage water heater, 50 gal, UEF = 0.92	\$831.00 - \$1,040.00 per unit
SWWH031-02-V	Heat pump water heater, => 45 to <= 55 gal, UEF = 3.50, replacing electric storage water heater, 30 gal, UEF = 0.92	\$867.00 - \$1,256.00 per unit
SWWH031-02-W	Heat pump water heater, => 45 to <= 55 gal, UEF = 3.50, replacing electric storage water heater, 40 gal, UEF = 0.92	\$857.00 - \$1,129.00 per unit
SWWH031-02-X	Heat pump water heater, => 45 to <= 55 gal, UEF = 3.50, replacing electric storage water heater, 50 gal, UEF = 0.92	\$852.00 - \$1,040.00 per unit

SWWH031-02-Y	Heat pump water heater, => 45 to <= 55 gal, UEF = 3.75, replacing electric storage water heater, 30 gal, UEF = 0.92	\$911.00 - \$1,343.00 per unit
SWWH031-02-Z	Heat pump water heater, => 45 to <= 55 gal, UEF = 3.75, replacing electric storage water heater, 40 gal, UEF = 0.92	\$900.00 - \$1,216.00 per unit
SWWH031-02-AA	Heat pump water heater, => 45 to <= 55 gal, UEF = 3.75, replacing electric storage water heater, 50 gal, UEF = 0.92	\$896.00 - \$1,127.00 per unit
SWWH031-02-AB	Heat pump water heater, > 55 to <= 75 gal, UEF = 3.30, replacing heat pump water heater, 60 gal, UEF = 2.91	\$162.00 - \$433.00 per unit
SWWH031-02-AC	Heat pump water heater, > 55 to <= 75 gal, UEF = 3.50, replacing heat pump water heater, 60 gal, UEF = 2.91	\$186.00 - \$515.00 per unit
SWWH031-02-AD	Heat pump water heater, > 55 to <= 75 gal, UEF = 3.75, replacing heat pump water heater, 60 gal, UEF = 2.91	\$251.00 - \$768.00 per unit

UEF = Uniform Energy Factor

Heat Pump Water Heater: Fuel Substitution

Incentives Available for: SDG&E Gas Customers

Requirements:

- The heat pump water heater must meet the storage capacity and minimum efficiency requirements shown in the table below.
- This measure is only applicable to 1-for-1 replacements. Projects where multiple heat pump water heaters are replacing a different quantity of existing natural gas water heaters should refer to the most recent version of SWWH028 Large Heat Pump Water Heater, Commercial and Multifamily, Fuel Substitution.
- Existing gas pipes servicing base equipment must be disconnected and capped. Any existing natural gas water heating system that is being displaced by heat pump water heaters must be fully decommissioned and disposed of.
- Split-system heat pump unit assemblies are eligible and shall have the same eligibility and data collection requirements as integrated tanked systems. However, they shall be treated as a single product with a single product efficiency and storage volume. Efficiency and performance ratings for the entire package shall be provided by the manufacturer.
- The following information must be collected for this fuel substitution measure.
 - What is the existing fuel type for water heating?
 - Did the site require any electric infrastructure upgrades for the proposed electrification measure? If yes, provide the itemized invoices with infrastructure upgrade costs.
 - Did the owner install any other electrification measures at this site? If yes, list the measures and provide the itemized invoices with infrastructure upgrade costs (if any).
- This measure is applicable for all commercial and industrial building types.

Restrictions:

- This measure is not eligible for water heaters used for non-domestic hot water uses, such as space conditioning, industrial (process) loads, and pools and/or spas applications. Combination systems that serve domestic hot water and space heating are not eligible.
- Redundancy (backup) systems are not eligible. However, heat pumps that are staged based on load or set up in a lead-lag configuration are eligible for this measure package.
- For AR offerings, the baseline systems must not be high efficiency condensing systems.

Measure Incentive Table & Efficiency Requirements

Measure Code	Equipment Description	2024 Estimated Incentive
SWWH027-04-S	> 55 to ≤ 75 gal, UEF = 3.30 replacing storage natural gas water heater, 60 gal, UEF = 0.61	\$983.00 - \$3,029.00 per unit
SWWH027-04-T	> 55 to ≤ 75 gal, UEF = 3.50 replacing storage natural gas water heater, 60 gal, UEF = 0.61	\$1,024.00 - \$3,111.00 per unit
SWWH027-04-U	> 55 to ≤ 75 gal, UEF = 3.75 replacing storage natural gas water heater, 60 gal, UEF = 0.61	\$1,133.00 - \$3,364.00 per unit
SWWH027-04-V	> 75 gal, UEF = 3.30 replacing storage natural gas water heater, 75 gal, UEF = 0.59	\$703.99 - \$3,544.00 per unit
SWWH027-04-W	> 75 gal, UEF = 3.50 replacing storage natural gas water heater, 75 gal, UEF = 0.59	\$846.77 - \$3,686.00 per unit
SWWH027-04-X	> 75 gal, UEF = 3.75 replacing storage natural gas water heater, 75 gal, UEF = 0.59	\$1,194.82 - \$4,034.00 per unit
SWWH027-04-Y	≥ 45 to ≤ 55 gal, UEF = 3.30 replacing storage natural gas water heater, 30 gal, UEF = 0.60	\$944.00 - \$2,555.00 per unit
SWWH027-04-Z	≥ 45 to ≤ 55 gal, UEF = 3.30 replacing storage natural gas water heater, 40 gal, UEF = 0.64	\$921.00 - \$2,555.00 per unit
SWWH027-04-AA	≥ 45 to ≤ 55 gal, UEF = 3.30 replacing storage natural gas water heater, 50 gal, UEF = 0.63	\$932.00 - \$2,555.00 per unit

SWWH027-04-AB	≥ 45 to ≤ 55 gal, UEF = 3.30 replacing tankless natural gas water heater, High Draw, UEF = 0.81	\$528.00 - \$2,555.00 per unit
SWWH027-04-AC	≥ 45 to ≤ 55 gal, UEF = 3.50 replacing storage natural gas water heater, 30 gal, UEF = 0.60	\$977.00 - \$2,555.00 per unit
SWWH027-04-AD	≥ 45 to ≤ 55 gal, UEF = 3.50 replacing storage natural gas water heater, 40 gal, UEF = 0.64	\$953.00 - \$2,555.00 per unit
SWWH027-04-AE	≥ 45 to ≤ 55 gal, UEF = 3.50 replacing storage natural gas water heater, 50 gal, UEF = 0.63	\$965.00 - \$2,555.00 per unit
SWWH027-04-AF	≥ 45 to ≤ 55 gal, UEF = 3.50 replacing tankless natural gas water heater, High Draw, UEF = 0.81	\$562.00 - \$2,555.00 per unit
SWWH027-04-AG	≥ 45 to ≤ 55 gal, UEF = 3.75 replacing storage natural gas water heater, 30 gal, UEF = 0.60	\$1,049.00 - \$2,642.00 per unit
SWWH027-04-AH	≥ 45 to ≤ 55 gal, UEF = 3.75 replacing storage natural gas water heater, 40 gal, UEF = 0.64	\$1,025.00 - \$2,642.00 per unit
SWWH027-04-AI	Heat pump water heater, ≥ 45 to ≤ 55 gal, UEF = 3.75 replacing storage natural gas water heater, 50 gal, UEF = 0.63	\$1,037.00 - \$2,642.00 per unit
SWWH027-04-AJ	Heat pump water heater, ≥ 45 to ≤ 55 gal, UEF = 3.75 replacing tankless natural gas water heater, High Draw, UEF = 0.81	\$632.00 - \$2,642.00 per unit

UEF = Uniform Energy Factor

Hot Water Pipe Insulation

Incentives Available for: SDG&E Gas Customers

Requirements:

- The pipe must transfer hot water, low-pressure steam, or medium-pressure steam directly from gas-fired, electric, or HPWH equipment, and the fluid type must be indicated. If the fluid is steam, the pressure of the steam must also be indicated.
- The existing pipe must be $\geq \frac{1}{2}$ -Inch.
- A minimum of one inch of pipe insulation must be added to existing bare pipe.
- Acceptable types of insulation for hot water pipes include elastomeric foam rubber, polyethylene foam, UV-resistant polyethylene foam, and rigid polyurethane foam.
- Acceptable types of insulation for hot water pipes include elastomeric foam rubber, polyethylene foam, UV-resistant polyethylene foam, and rigid polyurethane foam.

Restrictions:

- This measure is not eligible for new construction applications or retrofit/additions that trigger compliance with current California Building Energy Efficiency Standards (Title 24) requirements.
- Insulation required by employee safety laws (Occupational Safety and Health Administration, OSHA) is not eligible.
- Replacement of damaged (existing) insulation is not eligible.
- Residential steam pipe and fitting insulations are not eligible.

Measure Incentive Table & Efficiency Requirements

Measure Code	Equipment Description	2024 Estimated Incentive
SWWH017-05-A-I	Pipe insulation, 1-in thickness, hot water and steam, outdoor, various diameters	\$6.58 per len-ft
SWWH017-05-J-R	Fitting insulation, 1-in thickness, hot water and steam, outdoor, various diameters	\$1.07 - \$62.00 per len-ft
SWWH017-05-S-AA	Pipe insulation, 1-in thickness, hot water and steam, indoor, various diameters	\$3.54 - \$6.58 per len-ft
SWWH017-05-AB-AJ	Fitting insulation, 1-in thickness, hot water and steam, indoor, various diameters	\$1.07 - \$62.00 per len-ft

Hot Water Tank Insulation

Incentives Available for: SDG&E Gas Customers

Requirements:

- Must install 1- inch or 2-inch fiberglass or foam insulation on an existing bare, uninsulated storage or transfer tank.
- The tank must be coupled to gas fired central equipment that transfers heat to the contained liquid or solution.

Restrictions:

- Tanks with pre-existing insulation
- Replacement of old or damaged insulation
- Tanks insulated to prevent burns
- Insulation for exposed hot-water tanks within seven feet of the floor that are not otherwise guarded in such manner as to prevent contact
- This measure is not eligible for new construction applications or retrofit/additions that trigger compliance with current California Building Energy Efficiency Standards (Title 24) requirements.
- Insulation required by California Building Energy Efficiency Standards (Title 24) or employee safety laws (Occupational Safety and Health Administration, OSHA) is not eligible.

Measure Incentive Table & Efficiency Requirements

Measure Code	Equipment Description	2024 Estimated Incentive
SWWH018-04-A	1-in insulation, 120 - 170 deg F, high usage, indoor	\$9.49 per ft ²
SWWH018-04-B	1-in insulation, 120 - 170 deg F, high usage, outdoor	\$9.49 per ft ²
SWWH018-04-C	1-in insulation, 170 - 200 deg F, high usage, indoor	\$9.49 per ft ²
SWWH018-04-D	1-in insulation, 170 - 200 deg F, high usage, outdoor	\$9.49 per ft ²
SWWH018-04-E	1-in insulation, 120 - 170 deg F, low usage, indoor	\$9.03 per ft ²
SWWH018-04-F	1-in insulation, 120 - 170 deg F, low usage, outdoor	\$8.56 per ft ²
SWWH018-04-G	1-in insulation, 170 - 200 deg F, low usage, indoor	\$9.49 per ft ²
SWWH018-04-H	1-in insulation, 170 - 200 deg F, low usage, outdoor	\$9.49 per ft ²
SWWH018-04-I	2-in insulation, 120 - 170 deg F, high usage, indoor	\$12.00 per ft ²
SWWH018-04-J	2-in insulation, 120 - 170 deg F, high usage, outdoor	\$12.00 per ft ²
SWWH018-04-K	2-in insulation, 170 - 200 deg F, high usage, indoor	\$12.00 per ft ²
SWWH018-04-L	2-in insulation, 170 - 200 deg F, high usage, outdoor	\$12.00 per ft ²

Laminar Flow Restrictor

Incentives Available for: SDG&E Gas Customers

The measure case is defined as a laminar flow restrictor (LFR), also known as a laminar flow device (LFD), that is installed at the outlet of a faucet spout in a health care facility to reduce the flow rate.

Requirements:

- The device must be installed only in health care facilities that are subject to the Office of Statewide Health Planning and Development (OSHPD) code and regulation/inspection requirements.
- The device must meet the Office of Statewide Health Planning and Development (OSHPD) code and regulation.
- The LFR must be labeled as “Vandal Proof” or must not be removable without a proprietary tool, except for dialysis and scrub sink locations.

Restrictions:

- New construction health care facilities are not eligible.

Measure Incentive Table & Efficiency Requirements

Measure Code	Equipment Description	2024 Estimated Incentive
SWWH004-03-F	Faucet, kitchen LFD, 1.8 gpm	\$7.27 per unit
SWWH004-03-G	Faucet, kitchen LFD, 1.5 gpm	\$7.27 per unit
SWWH004-03-H	Faucet, public or private lavatory or kitchen LFD, 1.2 gpm	\$7.27 per unit
SWWH004-03-I	Faucet, public or private lavatory or kitchen LFD, 1.0 gpm	\$7.27 per unit
SWWH004-03-J	Faucet, public or private lavatory or kitchen LFD, 0.5 gpm	\$7.27 per unit

gpm=gallons per minute, LFD= Low Flow Device

Large Heat Pump Water Heater: Fuel Substitution

Incentives Available for: SDG&E Gas Customers

Requirements:

- Existing natural gas water heater must be fully decommissioned
- The following information must be collected for this fuel substitution measure.
 - What is the existing fuel type for water heating?
 - Did the site require any electric infrastructure upgrades for the proposed electrification measure? If yes, provide the itemized invoices with infrastructure upgrade costs.
 - Did the owner install any other electrification measures at this site? If yes, list the measures and provide the itemized invoices with infrastructure upgrade costs (if any).
- The following information must also be documented
 - Heat Pump water heater efficiency (UEF or COP), storage capacity (gallons), heating output capacity (kBtu/hr)
 - Existing water heater fuel type (natural gas or electric), output capacity (kBtu/hr)
 - Installation area location (conditioned or unconditioned)
 - If conditioned record heating and cooling type
 - Is heat pump water heater exhaust/intake ducted to outside or unconditioned space?

Restrictions:

- Measures installed in new areas of an existing building are not eligible.
- Measures are installed in a major renovation of an existing building are not eligible.
- Measures that are installed in capacity expansions of existing systems to serve existing and/or new load retrofits that require a new energy service are not eligible.
- Water heaters used for space conditioning, industrial processes, and pools or spa are not eligible
- Buildings requiring a system heating capacity greater than 1,000 kBtu/hr are not eligible.
- Backup systems are not eligible.

Measure Incentive Table & Efficiency Requirements

Measure Code	Equipment Description	2024 Estimated Incentive
SWWH028-03-K	75 ≤ to < 100 gal, UEF = 3.0 replacing large natural gas, storage water heater, 80 gal, Et = 0.80	\$9.14 - \$64.00 per CapOut-kBtuh
SWWH028-03-L	≥100 gal, COP = 4.3 replacing large natural gas, storage water heater, 100 gal, Et = 0.80	\$19.00 - \$105.00 per CapOut-kBtuh
SWWH028-03-M	≥ 100 gal, COP = 4.3 replacing instantaneous natural gas water heater, 76 to 200 kBtu/hr, Et = 0.80	\$18.00 - \$104.00 per CapOut-kBtuh
SWWH028-03-N	≥ 100 gal, COP = 4.3 replacing instantaneous natural gas water heater, > 200 kBtuh, Et = 0.80	\$18.00 - \$104.00 per CapOut-kBtuh

UEF = Uniform Energy Factor, Et = Thermal Efficiency COP=Coefficient of Performance

Low-Flow Showerhead

Incentives Available for: SDG&E Electric and Gas Customers

Requirements:

- The facility must have natural gas as the water heating source fuel.
- The measure for the installation of low-flow showerheads is applicable for the normal replacement/new construction of the existing showerhead of 1.8 gpm flow rate or greater with a low-flow showerhead of 1.7 gpm or lower flow rate.
- The measure for the installation of flow control valves is applicable for the add-on equipment onto an existing showerhead with the flow rate of 2.5 gpm or greater, reducing the flow rate to 1.8 gpm or lower.
- The installed low-flow showerhead shall meet the requirements of test procedure ANSI/ASME A112.18.1-2000, Section 5.5

Restrictions:

- Buildings which utilize electric water heaters are not eligible.

Measure Incentive Table

Measure Code	Equipment Description	2024 Estimated Incentive
SWWH020-04-C	Commercial showerhead flow control valve, 1.5 gpm, replacing newer showerhead 2.5gpm	\$4.08 - \$12.00 per unit
SWWH020-04-D	Commercial showerhead flow control valve, 1.8 gpm, replacing newer showerhead 2.5gpm	\$2.45 - \$7.04 per unit
SWWH020-04-E	Commercial showerhead flow control valve, 1.7 gpm, replacing newer showerhead 2.5gpm	\$2.99 - \$8.60 per unit
SWWH020-04-F	Commercial showerhead flow control valve, 1.6 gpm, replacing newer showerhead 2.5gpm	\$3.53 - \$10.00 per unit
SWWH020-04-G	Commercial showerhead flow control valve, 1.25 gpm, replacing newer showerhead 2.5gpm	\$5.44 - \$16.00 per unit
SWWH020-04-H	Commercial showerhead flow control valve, 1.0 gpm, replacing newer showerhead 2.5gpm	\$6.80 - \$20.00 per unit
SWWH020-04-O	Commercial showerhead, 1.7 gpm, NR, replacing older showerhead	\$1.52 - \$4.43 per unit
SWWH020-04-P	Commercial showerhead, 1.6 gpm, NR, replacing older showerhead	\$3.02 - \$8.85 per unit
SWWH020-04-Q	Commercial showerhead, 1.5 gpm, NR/NC	\$4.56 - \$13.00 per unit
SWWH020-04-R	Commercial showerhead, 1.25 gpm, NR, replacing older showerhead	\$8.34 - \$15.00 per unit
SWWH020-04-S	Commercial showerhead, 1.0 gpm, NR, replacing older showerhead	\$12.00 - \$15.00 per unit

Gpm= gallons per minute, NR=?,

Recirculation Pump Timer

Incentives Available for: SDG&E Gas Customers

Requirements:

- The building must have a hot water recirculation system that can be turned OFF entirely for a set period of the day and/or week.
- The building must have a centralized, gas-fired, hot-water system with a constant-flow, fractional-horsepower, uncontrolled recirculation pump.
- The timer device must have seven-day (or better) scheduling capabilities.
- This measure is applicable to existing buildings and is limited to the commercial building types specified below.
 - Healthcare – outpatient
 - Service – fitness
 - Office – large
 - Office – small
 - Education – primary
 - Education - secondary

Restrictions:

- This measure is excluded from newly constructed buildings, additions to existing buildings, and alterations to existing buildings.

Measure Incentive Table & Efficiency Requirements

Measure Code	Equipment Description	2024 Estimated Incentive
SWWH021-01-A	$\leq 1/12$ hp	\$399.00 per unit
SWWH021-01-B	$> 1/12$ and $\leq 1/3$ hp	\$399.00 per unit
SWWH021-01-C	$> 1/3$ hp	\$399.00 per unit

Storage Water Heater

Incentives Available for: SDG&E Gas Customers

Requirements:

- New energy efficient gas storage water heater must replace a standard efficiency gas storage water heater.
- Only storage water heaters as defined by the California Energy Commission qualify:
 - Must be used primarily for domestic hot water.
 - Have an input rating of less than 4,000 Btu per hour per gallon of stored water.
- New water heater must also meet the minimum efficiency requirements.

Restrictions:

- Water heaters or hot water boilers used for space conditioning, industrial (process) end-use applications, pools, or spas do not qualify.

Measure Incentive Table & Efficiency Requirements

Measure Code	Equipment Description	Required Efficiency	2024 Estimated Incentive
SWWH007-05-A	30 Gallon High Draw Storage Water Heater	0.68 UEF	\$2.45 - \$6.89 per Cap-kBtuh
SWWH007-05-B	30 Gallon Med Draw Storage Water Heater	0.64 UEF	\$0.01 - \$1.05 per Cap-kBtuh
SWWH007-05-C	40 Gallon Med Draw Storage Water Heater	0.68 UEF	\$1.83 - \$4.86 per Cap-kBtuh
SWWH007-05-D	40 Gallon High Draw Storage Water Heater	0.64 UEF	\$0.05 - \$0.91 per Cap-kBtuh
SWWH007-05-E	50 Gallon High Draw Storage Water Heater	0.68 UEF	\$0.65 - \$1.28 per Cap-kBtuh
SWWH007-05-F	50 Gallon Med Draw Storage Water Heater	0.64 UEF	\$2.56 - \$8.74 per Cap-kBtuh
SWWH007-05-H	Large Commercial storage heater, >75kBtu/hr	90% TE	\$5.84 - \$24.00 per Cap-kBtuh
SWWH007-05-I	Large Commercial storage heater, >75kBtu/hr	96% TE	\$6.36 - \$28.00 per Cap-kBtuh

UEF= Uniform Energy Factor, TE= Thermal efficiency

Tankless Water Heater

Incentives Available for: SDG&E Gas Customers

Requirements:

- New energy efficient gas large instantaneous water heater must replace a standard efficiency gas water heater
- Only instantaneous water heaters as defined by the California Energy Commission qualify:
 - Must be used primarily for domestic hot water
 - Provide hot water only when there is a hot water draw from the end use
 - Have an input rating of at least 4,000 Btu/hr per gallon of stored water
- Applicant must provide proof of the tankless nature of the water heater (e.g., manufacturer equipment specification sheets)
- Instantaneous water heaters must meet or exceed efficiency requirements based on size shown in table below

Restrictions:

- Water heaters or hot water boilers used for space conditioning, industrial (process) end-use applications, pools, or spas do not qualify
- Cannot be used to supply hot water to a circulation loop without an intermediary hot water storage tank

Measure Incentive Table & Efficiency Requirements

Measure Code	Equipment Description	Required Efficiency	Capacity	2024 Estimated Incentive
SWWH006-07-A	Small instant water heater	.81 UEF	<200 kBtu/hr	\$0.46 per kBtuh
SWWH006-07-B	Small instant water heater	.87 UEF		\$5.89 per kBtuh
SWWH006-07-G	Small instant water heater	.92 UEF		\$7.17 per kBtuh
SWWH006-07-H	Small instant water heater	.96 UEF		\$8.28 per kBtuh
SWWH006-07-E	Small/medium instant water heater	90% TE	<200 kBtu/hr	\$7.63 - \$8.20 per kBtuh
SWWH006-07-I	Small/medium instant water heater	84% TE		\$1.35 per kBtuh
SWWH006-07-J	Small/medium instant water heater	96% TE		\$6.95 per kBtuh
SWWH006-07-D	Large instant water heater	90% TE	≥200 kBtu/hr	\$8.25 - \$16.00 per kBtuh
SWWH006-07-F	Large instant water heater	96% TE		\$10.00 - \$19.00 per kBtuh
SWWH006-07-K	Large instant water heater	84% TE		\$3.17 - \$4.17 per kBtuh

UEF= Uniform Energy Factor, TE= Thermal efficiency

HVAC Specifications

Air-Cooled Chiller

Incentives Available for: SDG&E Electric Customers

Requirements

- Products are required to meet or exceed both full load (EER) and integrated part load (IPLV) efficiency requirements specified in the table below.
- The energy and demand impacts of this measure are applicable only to commercial buildings with chiller equipment serving space comfort.
- In a central or multi-chiller cooling plant with lead-lag configuration, "lead chiller measures may only be utilized in custom programs and shall not be used in deemed downstream, upstream incentive or direct install programs. Note that code requirement categories (Path A and Path B) are not a product classification and do not imply installation as a lead chiller. Energy impacts are determined with the assumption that the chiller is not a lead chiller.

Restrictions

- A chilled water plant shall not have more than 300 tons provided by air-cooled chillers, except where the water quality at the building site fails to meet the manufacturer specifications for the use of a water-cooled chiller, a chiller that are used to charge a thermal energy storage system with a design temperature of less than 40 °F, or a system serving healthcare facility.

Measure Requirements:

Capacity	Energy Efficiency Ratio (Eer)	Integrated Part Load Value (Iplv)	Statewide Measure Offering Id (Text)	Measure Offering Description (Text)
>=150 tons	11.1	15.4	A	Air cooled constant speed screw chiller (>= 150 tons, 11.1 EER, 15.4 IPLV)
<150 tons	11.1	15.1	C	Air cooled constant speed screw chiller (< 150 tons, 11.1 EER, 15.1 IPLV)
>=150 tons	12.1	16.8	E	Air cooled constant speed screw chiller (>= 150 tons, 12.1 EER, 16.8 IPLV)
<150 tons	12.1	16.4	F	Air cooled constant speed screw chiller (< 150 tons, 12.1 EER, 16.4 IPLV)

Measure Incentive Table

Measure Code	Equipment Description	2024 Estimated Incentive
SWHC020-03-A	Air cooled constant speed screw chiller (≥ 150 tons, 11.1 EER, 15.4 IPLV)	\$13.00 - \$62.00 per Cap-Tons
SWHC020-03-C	Air cooled constant speed screw chiller (< 150 tons, 11.1 EER, 15.1 IPLV)	\$13.00 - \$62.00 per Cap-Tons
SWHC020-03-E	Air cooled constant speed screw chiller (>= 150 tons, 12.1 EER, 16.8 IPLV)	\$23.00 - \$114.00 per Cap-Tons
SWHC020-03-F	Air cooled constant speed screw chiller (< 150 tons, 12.1 EER, 16.4 IPLV)	\$23.00 - \$114.00 per Cap-Tons

Air-Cooled Chiller, Path B

Incentives Available for: SDG&E Electric Customers

Requirements

- Products are required to meet or exceed both full load (EER) and integrated part load (IPLV) efficiency requirements specified in the table below.
- The energy and demand impacts of this measure are applicable only to commercial buildings with chiller equipment serving space conditioning.

Restrictions

- A chilled water plant shall not have more than 300 tons provided by air-cooled chillers, except where the water quality at the building site fails to meet the manufacturer specifications for the use of a water-cooled chiller, a chiller that are used to charge a thermal energy storage system with a design temperature of less than 40 °F, or a system serving healthcare facility.

Measure Requirements:

CAPACITY	ENERGY EFFICIENCY RATIO (EER)		INTEGRATED PART LOAD VALUE (IPLV)	STATEWIDE MEASURE OFFERING ID (TEXT)	MEASURE OFFERING DESCRIPTION (TEXT)
< 150 tons	17.7	10.4	A		Air-cooled screw chiller, path B < 150 tons, tier 1 (10.4 EER, 17.7 IPLV)
< 150 tons	19	10.4	B		Air-cooled screw chiller, path B < 150 tons, tier 2 (10.4 EER, 19.0 IPLV)
>= 150 tons	18	10.4	C		Air-cooled screw chiller, path B >= 150 tons, tier 1 (10.4 EER, 18.0 IPLV)
>= 150 tons	19.3	10.4	D		Air-cooled screw chiller, path B >= 150 tons, tier 2 (10.4 EER, 19.3 IPLV)

Measure Incentive Table

Measure Code	Equipment Description	2024 Estimated Incentive
SWHC052-02-A	Air-cooled screw chiller, path B, < 150 tons, tier 1 (10.4 EER, 17.7 IPLV)	\$15.00 - \$73.00 per cap-tons
SWHC052-02-B	Air-cooled screw chiller, path B, < 150 tons, tier 2 (10.4 EER, 19.0 IPLV)	\$62.00 - \$128.00 per cap-tons
SWHC052-02-C	Air-cooled screw chiller, path B, ≥ 150 tons, tier 1 (10.4 EER, 18.0 IPLV)	\$15.00 - \$33.00 per cap-tons
SWHC052-02-D	Air-cooled screw chiller, path B, ≥ 150 tons, tier 2 (10.4 EER, 19.3 IPLV)	\$56.00 per cap-tons

Cogged V-Belt for HVAC Fan

Incentives Available for: SDG&E Electric and Gas Customers

Requirements:

- A cogged V-belt can be installed on supply air and return air fans in rooftop units that do not already have a cogged V-belt.
- Only “A” and “B” V-belts, the two types typically used in rooftop units, are applicable for this measure.
 - The “A” belt is ½ inch wide and 5/16 inch thick. The “B” belt is larger, 21/32 inches wide and 12/32 inches thick so it can carry more power. V-belts come in a wide variety of lengths where 20 to 100 inches is typical.
- This measure is applicable for package rooftop HVAC systems in the following nonresidential building types.

DEER BUILDING PROTOTYPE	
Assembly	Health/Medical – Nursing Home
Education – Community College	Office – Large
Education – Primary School	Office – Small
Education – Secondary School	Restaurant - Fast-Food
Education – University	Restaurant - Sit-Down
Education – Relocatable Classroom	Retail - Multistory Large
Health/Medical – Hospital	Retail - Single-Story Large
Lodging – Hotel	Retail – Small
Lodging – Motel	Storage – Conditioned
Manufacturing - Bio/Tech	Grocery
Manufacturing – Light Industrial	Commercial
Warehouse - Refrigerated	

Restrictions:

- This measure is not applicable if the rooftop unit already has cogged V-belts.

Measure Incentive Table

Measure Code	Equipment Description	2024 Estimated Incentive
SWHC024-04-A	Cogged V-belt for HVAC fans, normal replacement	\$0.03 - \$0.50 per Cap-Tons

Demand Control Ventilation for Single Zone HVAC

Incentives Available for: SDG&E Electric and Gas Customers

The measure is defined as the addition of demand-controlled ventilation (DCV) to an existing packaged single zone direct expansion (DX) HVAC unit with an economizer.

Requirements:

- The existing system must be packaged single zone DX cooling unit with gas heat, cooling only unit, or heat pump.
- The existing system must ventilate continuously during occupied hours and may not have any other device previously installed that is intended to perform DCV such as an occupancy sensor that controls ventilation rate.
- The measure shall only be applied where it will result in a reduction to the overall ventilation that is supplied for the space.
- The existing system must have an operable airside economizer installed, and economizer high limit must be optimized for the climate per Title 24 2019 Table 140.4-E
- This measure is applicable for specific commercial building types providing food service, listed below.

- | | |
|---|---|
| <ul style="list-style-type: none"> ○ Education – College, University, Primary, Secondary ○ Assembly ○ Office - Small | <ul style="list-style-type: none"> ○ Restaurants – Fast Food, Sit-Down ○ Retail – Large, Small, multi-story |
|---|---|

Restrictions:

- Other existing HVAC system types not described in the Eligible Product section are not eligible.
- Systems with existing devices, such as occupancy sensors, intended to perform DCV operation are not eligible.

Measure Incentive Table

Measure Code	Equipment Description	2024 Estimated Incentive
SWHC006-03-A	Add DCV, ADEC and CO2 sensor, DX only	\$0.11 - \$18.00 per Cap-Tons
SWHC006-03-B	Add DCV, ADEC and CO2 sensor, DX furnace	\$1.24 - \$38.00 per Cap-Tons
SWHC006-03-C	Add DCV, ADEC and CO2 sensor, heat pump	\$1.47 - \$24.00 per Cap-Tons
SWHC006-03-D	Add DCV and CO2 sensor, DX only with ADEC	\$0.11 - \$18.00 per Cap-Tons
SWHC006-03-E	Add DCV and CO2 sensor, DX furnace with ADEC	\$1.24 - \$38.00 per Cap-Tons
SWHC006-03-F	Add DCV and CO2 sensor, heat pump with ADEC	\$1.47 - \$24.00 per Cap-Tons

Economizer Controls

Incentives Available for: SDG&E Electric and Gas Customers

Requirements:

- This measure requires field documentation of the existing conditions that verify the measure was necessary and that the measure was successfully applied.
- Additional technician verification of thermostat wiring and the number of cooling stages that should be performed to ensure that the first stage of cooling is dedicated to economizer operation and two-stage thermostat operation is enabled where possible.
- The controller changeover setpoint should be adjusted appropriately based on the available number of thermostat cooling stages.

Restrictions:

- This measure does not apply if the rooftop unit (RTU) has a fully operational and/or non-snapdisc sensor and is adjusted to the appropriate changeover setpoint based on the number of thermostat stages available for cooling.

Measure Incentive Table

Measure Code	Equipment Description	2024 Estimated Incentive
SWSV010-03-A	Economizer control adjustment on AC only unit	\$0.33 - \$12.00 per Cap-Tons
SWSV010-03-B	Economizer control adjustment on AC unit with gas heat	\$0.34 - \$12.00 per Cap-Tons
SWSV010-03-C	Economizer control adjustment on heat pump	\$0.30 - \$11.00 per Cap-Tons
SWSV010-03-D	Economizer control adjustment on variable volume AC unit with gas heat	\$0.05 - \$11.00 per Cap-Tons
SWSV010-03-E	Economizer control replacement on AC only unit	\$0.33 - \$12.00 per Cap-Tons
SWSV010-03-F	Economizer control replacement on AC unit with gas heat	\$0.34 - \$12.00 per Cap-Tons
SWSV010-03-G	Economizer control replacement on heat pump	\$0.30 - \$11.00 per Cap-Tons
SWSV010-03-H	Economizer control replacement on variable volume AC unit with gas heat	\$0.05 - \$11.00 per Cap-Tons

Enhanced Ventilation for Packaged HVAC

Incentives Available for: SDG&E Electric Customers

The measure is defined as the addition of a variable frequency drive (VFD) to an existing packaged single-zone direct expansion (DX) HVAC unit with an economizer.

Requirements:

- The measure offerings specify the addition of one or more efficiency measures, including VFD, NEMA motor, permanent magnet motor (PMM), and advanced digital economizer controller (ADEC), to cooling units with gas heat, cooling only units, and heat pumps.
- This measure requires field documentation of the existing conditions that verify the measure was necessary and that the measure was successfully applied.
- This measure must replace existing equipment with the addition of controls for existing units.
- Implementation requires proper setup of the damper limits and fan speeds to provide ventilation in accordance with Title 24 2019. Total unit airflow must be verified for at least one of the fan speeds. The percentage of outdoor air must be verified for each of the unit operating modes, including heating and cooling for each stage as well as the ventilation only mode.
- The existing system must be packaged single zone DX cooling unit
- The existing system must have a constant volume supply fan
- The existing system must have an operable airside economizer, and economizer high limit must be optimized for the climate
- Maintenance, and repairs to economizer should be completed prior to or in conjunction with this measure

Restrictions:

- This measure does not apply if the unoccupied supply fan operation is already set to “Auto” or intermittent

Measure Incentive Table

Measure Code	Equipment Description	2024 Estimated Incentive
SWHC023-04-A-X	Enhanced Ventilation for Packaged HVAC (Various Configurations)	\$16.00 - \$194.00 per Cap-Tons

Evaporative Pre-Cooler System and Controls for Packaged HVAC Unit

Incentives Available for: SDG&E Electric and Gas Customers

The measure case is defined as an evaporative pre-cooler installed on the condenser air intake of an existing HVAC packaged unit.

Requirements:

- The HVAC packaged units and the evaporative pre-cooler system and controls must meet the following requirements:
 - The existing packaged unit on which the evaporative pre-cooler system will be installed must be less than 10 years old.
 - A water treatment system must be used in conjunction with the evaporative pre-cooler system to maintain water quality and performance.
 - Real time monitoring of the evaporative pre-cooler system must be implemented to ensure the system is working properly.
 - As a standard procedure, the contractor must perform condenser coil cleaning prior to installation of the pre-cooler system.

Restrictions:

- Buildings located in coastal climate zones may not be eligible for this measure.

Measure Incentive Table

Measure Code	Equipment Description	2024 Estimated Incentive
SWHC042-04-A	HVAC package unit evaporative pre-cooler system and controls, add-on equipment	\$0.28 - \$24.00 per Cap-Tons

Multiple Capacity Unitary Air-Cooled Commercial Air Conditioners Between 65 and 240 kBtu/hr

Incentives Available for: SDG&E Electric and Gas Customers

The measure case is defined as a unitary air-cooled AC unit with a multi-speed indoor fan and a compressor with either 1) variable speed compressor(s), 2) multiple-step compressor(s), or 3) multiple compressors operating on a single refrigeration circuit (tandem compressors).

Requirements:

- Products eligible for this measure must meet the minimum efficiency requirements and include advanced features as stated in the table below.
- The AC equipment must include advanced compressor capacity control (either a variable speed compressor, tandem compressors on a single refrigeration circuit, or multiple-step compressors).
- The AC equipment must include a multi-speed (three steps or greater) indoor fan.

Restrictions:

- Unitary heat pumps (HPs) and unitary ACs with electric resistance heating for commercial applications are not eligible.
- Central chilled water hydronic systems and domestic hot water systems are not eligible.

Measure Requirements:

CAPACITY RANGE (KBTU/HR)	MINIMUM IEER	MINIMUM EER	STATEWIDE MEASURE OFFERING ID (TEXT)	MEASURE OFFERING DESCRIPTION (TEXT)
65 - 134	19	12	A	65 - 134 kBtu/hr, 12.0 EER and 19.0 IEER multi-capacity air source unitary AC DX equipment
135 - 239	17.5	12	B	135 - 239 kBtu/hr, 12.0 EER and 17.5 IEER multi-capacity air source unitary AC DX equipment

Measure Incentive Table

Measure Code	Equipment Description	2024 Estimated Incentive
SWHC043-03-A	65 - 134 kBtu/hr, 12.0 EER and 19.0 IEER multi-capacity air source unitary AC DX equipment	\$14.00 - \$142.00 per Cap-Tons
SWHC043-03-B	135 - 239 kBtu/hr, 12.0 EER and 17.5 IEER multi-capacity air source unitary AC DX equipment	\$10.00 - \$107.00 per Cap-Tons

Packaged Heat Pump Air Conditioner: Fuel Substitution

Incentives Available for: SDG&E Electric Customers

Requirements:

- This measure involves fuel substitution and must replace an existing less efficient packaged or split AC and natural gas furnace
- The existing furnace equipment must be removed and disposed of rather than refurbished and sold. Existing gas line(s) serving removed gas equipment must be capped off and removed refrigerant must be handled and disposed in accordance with all state and local regulations
- Required documentation can include ONE of the following:
 - Existing utility bills for the building,
 - City approved permitting,
 - City approved mechanical, or electrical, or architecture site drawings, or
 - Title 24 compliance report.
- What is the existing fuel type for space heating?
- Did the site require any electric infrastructure upgrades for the proposed electrification measure? If yes, provide the itemized invoices with infrastructure upgrade costs.
- Did the owner install any other electrification measures at this site? If yes, list the measures and provide the itemized invoices with infrastructure upgrade costs (if any).
- All the packaged or split HP must exceed the minimum efficiency requirements shown in Efficiency Requirements Table below.

Restrictions:

- This measure is not eligible when there is no natural gas to electricity fuel substitution for heating and/or when the measures include a non-regulated fuel

Efficiency Requirements

Capacity Range	AC Min Efficiency	HP Min Efficiency
≤ 65,000 Btu/hr	15 SEER	8.2 HSPF
> 65,000 and ≤ 134,000 Btu/hr	15.0 IEER	3.0 COP
> 135,000 and ≤ 239,000 Btu/hr	14.5 IEER	3.2 COP
> 240,000 Btu/hr	13.5 IEER	3.2 COP

SEER = Seasonal Energy Efficiency Ratio, IEER = Integrated Energy Efficiency Ratio, HSPF = Heating Season Performance Factor, COP = Coefficient of Performance,

Measure Incentive Table

Measure Code	Equipment Description	2024 Estimated Incentive
SWHC046-03- (A-H, J, L, N-Z, AA-AB)	Commercial, Various Configurations, Gas to Electric	\$0.07 - \$680.00 per cap-ton

Package Terminal Air Conditioner or Heat Pump , Under 24 kBtu/hr

Incentives Available for: SDG&E Electric Customers

Requirements:

- Must be either a package terminal air conditioner (PTAC) or a package terminal heat pump (PTHP) that is through the wall, self-contained, with a cooling capacity \leq 2 tons (\leq 24 kBtu/h)
- Measure case exceeds code by 20%
- The incentive is only applicable for the existing building types:

○ Health/Medical – Nursing Home	○ Lodging – Guest Rooms
○ Office – Large	○ Retail – Small
○ Office – Small	○ Manufacturing – Bio/Tech
○ Lodging – Hotel	○ Manufacturing – Lighting Industrial
○ Lodging – Motel	○ Warehouse – Refrigerated
○ Restaurant – Fast Food	

Restrictions:

- Ductless mini-split AC are not eligible

Efficiency Requirements

Capacity Range	AC Min EER	HP Min EER
\leq 7,000 Btu/hr	11.29	11.17
$>$ 7,000 and \leq 15,000 Btu/hr	10.27	10.15
$>$ 15,000 Btu/hr	9.25	9.13

EER =Energy Efficiency Rating

Measure Incentive Table

Measure Code	Equipment Description	2024 Estimated Incentive
SWHC027-04-N	PTAC, High Efficiency DX unit below 24kBtu/h	\$41.00 - \$110.00 per Cap-ton
SWHC027-04-V	PTHP, High Efficiency DX unit below 24kBtu/h	\$45.00 - \$115.00 per Cap-ton

Software-Controlled Switch Reluctance Motor

Incentives Available for: SDG&E Electric Customers

The measure case is defined as the replacement of an existing supply fan induction motor and VFD controller with a software controlled SRM in a HVAC packaged unit used in a commercial or industrial building.

Requirements:

- There are two measure application types (MAT) for this measure.
 - The normal replacement (NR) MAT is applicable to fan motors between 1 hp to 3 hp (nameplate)
 - The accelerated replacement (AR) MAT is applicable to fan motors between 1 hp to 15 hp (nameplate).
- For NR offerings,
 - The project must use a 1 hp to 3 hp switch reluctance motor to replace the existing 1 hp to 3 hp induction supply fan motor in a packaged HVAC system.
 - Replacing a 2-speed fan motor is eligible for NR offerings and can claim savings based on a VSD fan baseline.
- For AR offerings, the products are eligible if all the following conditions are met:
 - Host packaged unit equipment must have a single speed fan motor.
 - Induction fan motor must be within 1 hp to 15 hp.
- For all offerings, the SRM must be installed in a packaged or split air conditioning system with a gas furnace.
- The product must be a switch reluctance motor and must be programmed to vary its speed based on packaged unit operational requirements.
- The motors cannot be set to operate at a single speed.
- Commissioning or operating documentation, including, but not limited to, screenshots from control software, sequence of operations, or a controls description from the installer can be provided to support this requirement.
- The new motor and controls must be UL Listed
- This measure is not eligible for other fans, such as the return fan or outdoor air fan of a packaged HVAC unit.

Restrictions:

- As this measure is only eligible when installing into existing packaged units, new construction or capacity expansion measures are not eligible.
- Packaged and split heat pump systems are not eligible.
- Packaged and split air conditioning systems without a gas furnace are not eligible.
- The NR offering is not eligible for supply fan motors rated < 1 hp and > 3 hp (nominal).
- The AR offering is not eligible for the following situations:
 - For supply fan motors rated < 1 hp and > 15 hp (nominal).
 - Base case fans with variable speed or 2-speed motors.
- This measure is not eligible for other fans, such as the return fan or outdoor air fan of a packaged HVAC unit.
- This measure is not eligible for the new building vintage.

Measure Incentive Table

Measure Code	Equipment Description	2024 Estimated Incentive
SWHC041-05-A	Software-controlled SRM, NR, 1-3 hp	\$5.90 - \$34.00 per rated hp
SWHC041-05-B	Software-controlled SRM, AR, 1-15 hp	\$105.00 - \$455.00 per rated hp

Supply Fan Controls

Incentives Available for: SDG&E Electric Customers

Requirements:

- This measure requires field documentation of the existing conditions that verify the measure was necessary and that the measure was successfully applied.
- Additional technician verification of thermostat wiring and the number of cooling stages that should be performed to ensure that the first stage of cooling is dedicated to economizer operation and two-stage thermostat operation is enabled where possible.
- The controller changeover setpoint should be adjusted appropriately based on the available number of thermostat cooling stages.
- Contractors and technicians that implement the measure must meet all certification and training requirements in accordance with program requirements.
- Contractors and technicians that implement this measure must ensure that the existing unit does not already have the supply fan in automatic mode or switched OFF during unoccupied periods.

Restrictions:

- This measure does not apply if the rooftop unit (RTU) has a fully operational and/or non-snapdisc sensor and is adjusted to the appropriate changeover setpoint based on the number of thermostat stages available for cooling.
- This measure does not apply if the unoccupied supply fan operation is already set to “Auto” or intermittent.

Measure Incentive Table

Measure Code	Equipment Description	2024 Estimated Incentive
SWHC009-04-A	Unoccupied fan control, AC only unit	\$3.50 - \$7.47 per Cap-Tons
SWHC009-04-B	Unoccupied fan control, AC unit with gas heat	\$4.51 - \$7.47 per Cap-Tons
SWHC009-04-C	Unoccupied fan control, heat pump	\$4.15 - \$7.47 per Cap-Tons
SWHC009-04-D	Unoccupied fan control, variable volume AC unit with gas heat	\$5.63 - \$7.47 per Cap-Tons

Unitary Air-Cooled Air Conditioner (over 65 kBtu/hr)

Incentives Available for: SDG&E Electric and Gas Customers

Requirements:

- The replacement equipment must be “like for like” (e.g., a heat pump for a heat pump)
- The equipment must meet or exceed the efficiency requirements described in the table below

Restrictions:

- Fuel substitution measures are not eligible
- Package terminal air conditioning units, which are units manufactured for installation through a wall or window and are usually ≤ 2 tons, are not eligible.

Efficiency Requirements

Equipment Type	Cooling Capacity (btu/h)	Energy Efficiency Ratio (EER)
Package AC	65,000 – 134,000	11.5
	135,000 – 239,000	11.5
	240,000 – 759,000	10.8
	>760,000	10.2
Package HP	65,000 – 134,000	11.5
	135,000 – 239,000	10.8
	240,000 – 759,000	9.7

Measure Incentive Table

Measure Code	Equipment Description	2024 Estimated Incentive
SWHC013-04-A-M	Over 65 kBtu/hr, commercial packaged AC, various configurations	\$1.29 - \$30 per Cap-Ton
SWHC013-04-N-S	Over 65 kBtu/hr, commercial packaged HP, various configurations	\$1.57 - \$4.27 per Cap-Ton

Unitary Air-Cooled Air Conditioner or Heat Pump (under 65 kBtu/hr)

Incentives Available for: SDG&E Electric and Gas Customers

Requirements:

- Eligible products must meet be < 65,000 btu/hr and > 15 SEER.
- Minimum Efficiency Requirements

UNIT TYPE	TIER	MINIMUM SEER
Packaged AC	Code	14
	Tier 1	15
	Tier 2	16
	Tier 3	17
	Tier 4	18
Split System AC	Code	14
	Tier 1	15
	Tier 2	16
	Tier 3	17
	Tier 4	18
Packaged Air-cooled Heat Pump	Code	14
	Tier 1	15
	Tier 2	16
	Tier 3	17
	Tier 4	18
Split System Air-cooled Heat Pump	Code	14
	Tier 1	15
	Tier 2	16
	Tier 3	17
	Tier 4	18

- All three-phase unitary AC and HP equipment less than 65,000 Btu/h is eligible. Three-phase unitary AC and HP equipment less than 65,000 Btu/h will continue to be rated to SEER in 2023, only single-phase equipment less than 65,000 Btu/h will switch to SEER2.
- The replacement equipment must be “like for like” (e.g., a heat pump for a heat pump)

Restrictions:

- Fuel substitution measures (regardless of measure application type) are not eligible for incentives using this measure package.
- SEER2 rated equipment is not eligible for this measure in program year 2023.
- Package terminal air conditioning units, which are units manufactured for installation through a wall or window and are usually ≤ 2 tons, are not eligible.

Measure Incentive Table

Measure Code	Equipment Description	2024 Estimated Incentive
SWHC014-04-E-H, AK-AR	Under 65 kBtu/hr, commercial packaged AC, various configurations	\$4.15 - \$206.00 per Cap-Tons
SWHC014-04-Q-T, BA-BH	Under 65 kBtu/hr, commercial split AC, various configurations	\$3.80 - \$193.00 per Cap-Tons

SWHC014-04-Y-Z, AA-AB, AS-AZ	Under 65 kBtu/hr, commercial packaged HP, various configurations	\$4.15 - \$189.00 per Cap-Tons
SWHC014-04-AG-AJ, BI-BP	Under 65 kBtu/hr, commercial split HP, various configurations	\$5.50 - \$208.00 per Cap-Tons

VSD for HVAC Fan Controls

Incentives Available for: SDG&E Electric Customers

Requirements:

- This measure requires the installation of a VSD and associated controls on a motor driving a ventilation fan. Eligibility requirements include:
 - The fan must be \leq 100 hp.
 - The existing fan motor must operate at constant speed.
 - As an *add-on equipment installation*, the VSD must be applied to the 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 constant speed fan motor must be replaced because it cannot accommodate a VSD, such as it not being inverter rated, then a new fan motor may be installed that works with the VSD.
- The incentive is only applicable for the existing building types:

○ Education – Secondary, Community College, University	○ Office – Large
○ Health/Medical – Hospital, Nursing Home	○ Retail – Multistory Large
○ Lodging – Hotel	○ Grocery

Restrictions:

- Fans of size > 100 hp are not eligible.
- Replacement of multiple-speed or variable speed motors (VSM) are not eligible.
- Variable frequency drives on cooling tower fans are not eligible.
- Exhaust fans are not eligible.

Measure Incentive Table

Measure Code	Equipment Description	2024 Estimated Incentive
SWHC018-04-A	VSD on HVAC Fan Controls	\$136.00 - \$258.00 per rated-HP

Water-Cooled Chiller

Incentives Available for: SDG&E Electric Customers

Requirements:

- Units are required to meet both full load (kW/ton) and integrated part load (IPLV) efficiency requirements specified in the table below.

Restrictions:

- All measures related to constant speed screw, constant speed centrifugal, and frictionless chillers are excluded.
- “Lead Chillers” In a central or multi-chiller cooling plant with lead-lag configuration, are not eligible.

Efficiency Requirements

COMPRESSOR TYPE	CAPACITY RANGE (TONS)	MAX KW/TON - MEASURE CASE	STATEWIDE MEASURE OFFERING ID (TEXT)	MEASURE OFFERING DESCRIPTION (TEXT)
Centrifugal w/ Conventional VSD	< 150	0.591	I	Water cooled centrifugal chiller w/1 conventional VSD compressor and condenser relief (< 150 tons, 0.591 kW/ton, 0.374 IPLV)
Centrifugal w/ Conventional VSD	< 150	0.626	J	Water cooled centrifugal chiller w/1 conventional VSD compressor and condenser relief (< 150 tons, 0.626 kW/ton, 0.396 IPLV)
Centrifugal w/ Conventional VSD	>= 600	0.497	G	Water cooled centrifugal chiller w/1 conventional VSD compressor and condenser relief (>= 600 tons, 0.497 kW/ton, 0.323 IPLV)
Centrifugal w/ Conventional VSD	>= 600	0.527	H	Water cooled centrifugal chiller w/1 conventional VSD compressor and condenser relief (>= 600 tons, 0.527 kW/ton, 0.342 IPLV)
Centrifugal w/ Conventional VSD	150 to 299	0.54	A	Water cooled centrifugal chiller w/1 conventional VSD compressor and condenser relief (150 to 299 tons, 0.54 kW/ton, 0.34 IPLV)
Centrifugal w/ Conventional VSD	150 to 299	0.572	B	Water cooled centrifugal chiller w/1 conventional VSD compressor and condenser relief (150 to 299 tons, 0.572 kW/ton, 0.36 IPLV)
Centrifugal w/ Conventional VSD	300 to 399	0.506	C	Water cooled centrifugal chiller w/1 conventional VSD compressor and condenser relief (300 to 399 tons, 0.506 kW/ton, 0.332 IPLV)
Centrifugal w/ Conventional VSD	300 to 399	0.536	D	Water cooled centrifugal chiller w/1 conventional VSD compressor and condenser relief (300 to 399 tons, 0.536 kW/ton, 0.351 IPLV)
Centrifugal w/ Conventional VSD	400 to 599	0.497	E	Water cooled centrifugal chiller w/1 conventional VSD compressor and condenser relief (400 to 599 tons, 0.497 kW/ton, 0.323 IPLV)
Centrifugal w/ Conventional VSD	400 to 599	0.527	F	Water cooled centrifugal chiller w/1 conventional VSD compressor and condenser relief (400 to 599 tons, 0.527 kW/ton, 0.342 IPLV)
Variable Speed Screw	< 75	0.663	S	Water cooled variable speed screw chiller (< 75 tons, 0.663 kW/ton, 0.425 IPLV)
Variable Speed Screw	< 75	0.702	T	Water cooled variable speed screw chiller (< 75 tons, 0.702 kW/ton, 0.45 IPLV)
Variable Speed Screw	>= 600	0.497	Q	Water cooled variable speed screw chiller (>= 600 tons, 0.497 kW/ton, 0.323 IPLV)
Variable Speed Screw	>= 600	0.527	R	Water cooled variable speed screw chiller (>= 600 tons, 0.527 kW/ton, 0.342 IPLV)

COMPRESSOR TYPE	CAPACITY RANGE (TONS)	MAX KW/TON - MEASURE CASE	STATEWIDE MEASURE OFFERING ID (TEXT)	MEASURE OFFERING DESCRIPTION (TEXT)
Variable Speed Screw	150 to 299	0.578	K	Water cooled variable speed screw chiller (150 to 299 tons, 0.578 kW/ton, 0.374 IPLV)
Variable Speed Screw	150 to 299	0.612	L	Water cooled variable speed screw chiller (150 to 299 tons, 0.612 kW/ton, 0.396 IPLV)
Variable Speed Screw	300 to 599	0.531	M	Water cooled variable speed screw chiller (300 to 599 tons, 0.531 kW/ton, 0.349 IPLV)
Variable Speed Screw	300 to 599	0.563	N	Water cooled variable speed screw chiller (300 to 599 tons, 0.563 kW/ton, 0.369 IPLV)
Variable Speed Screw	75 to 149	0.638	O	Water cooled variable speed screw chiller (75 to 149 tons, 0.638 kW/ton, 0.417 IPLV)
Variable Speed Screw	75 to 149	0.675	P	Water cooled variable speed screw chiller (75 to 149 tons, 0.675 kW/ton, 0.441 IPLV)

Measure Incentive Table

Measure Code	Equipment Description	2024 Estimated Incentive
SWHC005-03-A-J	Water cooled centrifugal chiller w/1 conventional VSD compressor and condenser relief (various configurations)	\$2.61 - \$37.00 per Cap-Tons
SWHC005-03-K-T	Water cooled variable speed screw chiller (various configurations)	\$2.61 - \$42.00 per Cap-Tons

Lighting Specifications

UL Type B LED Mogul Base Lamp HID Retrofits for Outdoor Area/Pole and Decorative Fixtures

Incentives Available for: SDG&E Electric Customers

The measure case is defined as high efficiency DLC listed UL Type B mogul based screw-in LED lamp designed to replace existing HID lamps and ballasts in exterior pole/area and decorative fixtures.

Requirements:

Qualified products must meet the following requirements:

- The LED lamp must be DLC qualified under one of the following DLC product categories:
 - Replacement Lamps for Outdoor Pole/Arm-mounted Area and Roadway Luminaires (Type B)
 - Replacement Lamps for Outdoor Pole/Arm-mounted Decorative Luminaires (Type B)
- Must meet or exceed the minimum efficacy requirement. The efficacy used to establish eligibility is the DLC reported efficacy value.
- Lamps must be mapped to the appropriate wattage bin for each measure.
- The LED lamp must use a mogul base (E39, EX39, or E40) as required by DLC.
- Adjustable output lamps are eligible for this measure with the following additional requirements:
 - The lamp must meet minimum efficacy requirements at the light output level used to claim the incentive.
 - For AR measures, the lamp must be set to an appropriate wattage for the base case equipment as described in the measure description.
 - For AR measures, if multiple output settings are applicable for the base case equipment, any applicable output can be used dependent upon the customer's lighting requirements.
 - For NR measures, savings claims and incentives must be made for the lowest wattage setting of the lamp. This is to align it with the lowest applicable measure offering output bin and ensure that savings claims are conservative.
- Specific safety related product requirements include:
 - Products must be rated for fully enclosed fixtures.
 - Products must be suitable for damp or wet locations or have an ingress protection (IP) water ingress rating of 4 or better.
- This measure is only eligible for existing building vintage.

Restrictions:

- New building vintage is not eligible.
- Existing lamps and ballasts must be fully demolished and properly disposed. "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.

Measure Incentive Table

Measure Code	Equipment Description	2024 Estimated Incentive
SWLG020-02-A-BF	Various Configurations	\$1.05 - \$112.00 per lamp

Process Specifications

Circulating Block Heater

Incentives Available for: SDG&E Electric Customers

This measure is defined as a recirculation pump with an electric resistance heater to a backup diesel generator.

Requirements:

- For a normal replacement (NR) installation, the existing backup generator is eligible if it is not currently fitted with a circulating block heater or device utilizing similar electro-mechanical system to heat and circulate generator block pre-warming fluid
- Additional eligibility requirements regarding the installation include:
 - Installation of Circulating Block Heater should be performed by a qualified technician (i.e. generator maintenance technician or mechanical service technician)
 - Installer should follow manufacturer's installation requirements and assess and perform (if necessary) fluid hose adjustments that may be associated with the retrofit to enable the Circulating Block Heater to function at optimal energy efficiency
 - Installation shall meet all applicable regulations including but not limited to latest NFPA Code 110 for Emergency Power Systems and NEC

Restrictions:

- This measure is not eligible for residential buildings

Measure Incentive Table

Measure Code	Equipment Description	2024 Estimated Incentive
SWPR004-04-A	Circulating Block Heater: 37-199 kW Undersized	\$159.00 - \$432.00 per unit
SWPR004-04-B	Circulating Block Heater: 37-199 kW Properly Sized	\$244.00 - \$499.00 per unit
SWPR004-04-C	Circulating Block Heater: 200-799 kW Undersized	\$88.00 per unit
SWPR004-04-D	Circulating Block Heater: 200-799 kW Properly Sized	\$88.00 per unit

Recreation

Heater for Pool or Spa, Commercial and Multifamily

Incentives Available for: SDG&E Gas Customers

Requirements:

- This measure is available for swimming pool heating and the unit must replace pre-existing pool heater.
- The commercial pool heater must be certified to meet the following requirements:
 - The heater must have Thermal Efficiency (TE) \geq 84%
 - The heater must have an ON/OFF switch and no pilot light
- This measure is applicable to all pool sizes to accommodate the energy savings opportunity associated with the significant number of smaller and larger heated commercial pools.
- This measure is applicable to all heated pools installed in commercial facilities, such as schools, colleges, universities, YMCA/YWCA, public facilities, hotels/motels, health clubs, and spas.

Restrictions:

- Single-family residences (residential homeowners) are not eligible for this measure.

Measure Incentive Table

Measure Code	Equipment Description	2024 Estimated Incentive
SWRE003-03-B	Tier 1 efficient commercial pool and spa heater, indoor (TE \geq 84%)	\$0.64 per Cap-kBTUh
SWRE003-03-C	Tier 1 efficient commercial pool and spa heater, outdoor (TE \geq 84%)	\$0.76 - \$2.12 per Cap-kBTUh
SWRE003-03-D	Tier 2 efficient commercial pool and spa heater, indoor (TE \geq 94%)	\$1.54 per Cap-kBTUh
SWRE003-03-E	Tier 2 efficient commercial pool and spa heater, outdoor (TE \geq 94%)	\$1.78 - \$5.16 per Cap-kBTUh

Pool Cover

Incentives Available for: SDG&E Gas Customers

Requirements:

- This measure applies to outdoor heated swimming pools that do not already have pool cover.
- The pool must be heated with natural gas.
- The new pool cover must cover at least 95% of the pool.
- The new pool cover must have a minimum R-value of 0.5 ft²-hr-F/Btu (R=L/K).
- Olympic size pools must have a storage reel system either manual or automatic winding
- Proof of minimum five-year warranty required

Restrictions:

- New construction installations are not eligible.

Measure Incentive Table

Measure Code	Equipment Description	2024 Estimated Incentive
SWRE001-03-A	Pool Cover, Commercial, Outdoor	\$1.54 - \$2.11 per pool area ft sq

Refrigeration Specifications

Anti-Sweat Heater Controls

Incentives Available for: SDG&E Electric Customers

Requirements:

- Anti-sweat heater (ASH) controls for reach-in display freezers (low-temperature, LT) and coolers (medium-temperature, MT)
- Display case must be equipped with humidity-sensing controls that reduce the amount of power supplied to the heaters as the store dew point (DP) temperature decreases.
- Typically, power reduction occurs when relative humidity levels reach 55% and lower. Power reduction should decrease by at least 2% for every percentage the humidity falls below 55%.
- Equivalent technologies that can reduce or turn off ASHs based on the amount of condensation formed on the inner glass pane may also qualify.

Restrictions:

- This measure cannot be used in conjunction with the Medium-Temperature Case Doors (SWCR015) and/or Medium or Low-Temperature Display Case With Doors (SWCR021) measures, which include the new refrigeration display case with doors offerings.
- This measure cannot be used in conjunction with the special doors with the Low-Temperature Display Case Doors With No Anti-Sweat Heaters (SWCR002) measure, which includes the low/no anti-sweat heat on low-temperature display case offerings.

Measure Incentive Table

Measure Code	Equipment Description	2024 Estimated Incentive
SWCR001-04-A	Anti-Sweat Heater (ASH) Controls (Low Temperature)	\$25.00 - \$35.00 per linear ft.
SWCR001-04-B	Anti-Sweat Heater (ASH) Controls (Medium Temperature)	\$4.76 - \$20.00 per linear ft.

Bare Suction Line Insulation

Incentives Available for: SDG&E Electric Customers

Requirements:

- The eligible measure offerings for bare refrigeration line insulation are:
 - Insulation of bare suction lines for medium-temperature, walk-in coolers
 - Insulation of bare suction lines for low-temperature, walk-in freezers
- The eligibility requirements are as follows:
 - The refrigeration suction line on existing equipment must be no more than 1-5/8 inches in diameter.
 - The existing refrigerant suction line should not be currently insulated nor have deteriorated insulation.
 - This measure is applicable to bare suction lines insulated with closed-cell nitrite rubber or equivalent with at least 3/4-inch for medium-temperature and 1-inch for low-temperature systems.
 - Insulation R-values must be greater than or equal to R-3.2 for medium-temperature cooler lines.
 - Insulation R-values must be greater than or equal to R-4.3 low-temperature freezer lines.

Restrictions:

- The existing refrigerant suction line should not be currently insulated nor have deteriorated insulation.

Measure Incentive Table

Measure Code	Equipment Description	2024 Estimated Incentive
SWCR010-04-A	Walk-in cooler suction line insulation	\$1.29 - \$3.07 per Len-ft
SWCR010-04-B	Walk-in freezer suction line insulation	\$5.80 - \$11.00 per Len-ft

Fan Motor Retrofit for a Refrigerated Display Case

Incentives Available for: SDG&E Electric Customers

The measure is defined as a new high efficiency motor (ECM type) or PMS motor/fan assembly for an evaporator in a medium or low temperature refrigerated display case. An assembly with one motor, fan blades, and housing are treated the same as a bare motor.

Requirements:

- The installed motor is a permanent magnet electronically commutated motor (ECM) or permanent magnet synchronous AC (PMS) motor/fan assembly.
- Motor is installed as an evaporator fan motor in a refrigerated display case
- Prior to the retrofit, the equipment had a motor that was a shaded pole (SHP) motor or permanent split capacitor (PSC) motor.
- The new motor is of equivalent size to the original motor
- The refrigerated display case may be a low-temperature (freezer, case temperature below 32 °F) or a medium-temperature (cooler, case temperature at or above 32 °F) display case.
- The motor must be described as low-power or high efficiency by the manufacturer

Restrictions:

- Measure cannot be used in conjunction with SWAP011 Vending and Beverage Merchandise Controller
- Measure cannot be used in conjunction with SWCR002 Low-Temperature Display Case Doors With No Anti-Sweat Heaters
- Measure cannot be used in conjunction with SWCR018 reach in refrigerator or freezer
- Measure cannot be used in conjunction with SWCR019 low-temperature coffin to reach in display case conversion
- Measure cannot be used in conjunction with SWCR021 medium or low-temperature display case with doors
- Measure cannot be used in conjunction with SWCR020 medium-temperature open display case retrofit

Measure Incentive Table

Measure Code	Equipment Description	2024 Estimated Incentive
SWCR003-03-A	Electrically Commutated (EC) motor replacing Permanent Split Capacitor (PSC) motor, (Medium Temp)	\$13.00 - \$16.00 per unit
SWCR003-03-B	Electrically Commutated (EC) motor replacing Permanent Split Capacitor (PSC) motor, (Low Temp)	\$15.00 - \$20.00 per unit
SWCR003-03-C	Electrically Commutated (EC) motor replacing Shaded Pole (SHP) motor, (Medium Temp)	\$24.00 - \$31.00 per unit
SWCR003-03-D	Electrically Commutated (EC) motor replacing Shaded Pole (SHP) motor, (Low Temp)	\$29.00 - \$38.00 per unit
SWCR003-03-E	Permanent Magnet Synchronous (PMS) motor replacing Permanent Split Capacitor (PSC) motor/blades, (Medium Temp)	\$26.00 - \$33.00 per unit
SWCR003-03-F	Permanent Magnet Synchronous (PMS) motor replacing Permanent Split Capacitor (PSC) motor/blades, (Low Temp)	\$31.00 - \$39.00 per unit
SWCR003-03-G	Permanent Magnet Synchronous (PMS) motor replacing Shaded Pole (SHP) motor/blades, (Medium Temp)	\$37.00 - \$47.00 per unit
SWCR003-03-H	Permanent Magnet Synchronous (PMS) motor replacing Shaded Pole (SHP) motor/blades, (Low Temp)	\$44.00 - \$58.00 per unit

Floating Head Pressure Controls

Incentives Available for: SDG&E Electric Customers

This measure is for floating head pressure control for commercial air-cooled and evaporative-cooled multiplex refrigeration systems.

Requirements:

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

Restrictions:

- Building vintages and refrigeration multiplex system vintages after 2013 are not eligible
- Products cannot be used in conjunction with measures that already incorporate floating head pressure controls
- Projects that only reprogram a controller are not eligible; new hardware must be installed
- Any improvements that will increase system energy use is not eligible
- Sub-cooler loads and air conditioning loads are not eligible

Measure Incentive Table

Measure Code	Equipment Description	2024 Estimated Incentive
SWCR007-04-A	Control of saturated condenser temperature (SCT) to ambient temperature for air-cooled condensers with cycling fan controls	\$38.00 - \$69.00 per Cap-Tons
SWCR007-43-B	Control of saturated condenser temperature (SCT) to ambient temperature for air-cooled condensers with VFD fan controls	\$81.00 - \$120.00 per Cap-Tons
SWCR007-04-C	Control of saturated condenser temperature (SCT) to wetbulb temperature for evap-cooled condensers with cycling fan controls	\$93.00 - \$135.00 per Cap-Tons
SWCR007-04-D	Control of saturated condenser temperature (SCT) to wetbulb temperature for evap-cooled condensers with VFD fan controls	\$101.00 - \$143.00 per Cap-Tons

Low-Temperature Coffin to Reach-In Display Case Conversion

Incentives Available for: SDG&E Electric Customers

Requirements:

- The measure is applicable to replace any existing coffin that is less than or equal to code
- If the display width is less than or equal to 3 feet, the coffin must be replaced by a reach-in case that is $\frac{1}{4}$ of the total length of the coffins or less
- If the display width is greater than 3 feet, the coffin must be replaced by a reach-in case that is $\frac{1}{3}$ of the total length of the coffin or less
- The replacement case must include triple-pane doors with low or no anti-sweat heat or anti-sweat-heat controls

Measure Incentive Table

Measure Code	Equipment Description	2024 Estimated Incentive
SWCR019-03-A	Wide Case Width	\$50.00 per len-ft
SWCR019-03-B	Narrow Case Width	\$50.00 per len-ft

Low-Temperature Display Case Doors with no Anti-Sweat Heaters

Incentives Available for: SDG&E Electric Customers

Requirements:

- An existing standard glass door with one-pane glass of a low-temperature reach-in display case is replaced with a special glass door with low to no ASH.
- The replacement door is double-pane glass with either heat-reflective treatment or is gas filled
- The replacement door will prevent condensation within the frame assembly.
- The total wattage from the door rail, glass, and frame heater does not exceed 7.1 W/ft² of door opening
- The display case temperature setpoint is between 5 °F and 24 °F.
- Total door rail, glass, and frame heater amperage (at 120 volts) cannot exceed 0.925 amps per door.

It is important to note that for replacement of display case doors, the ASH on the glass doors and frame is eliminated; the ASH on the mullion of the cases continue to operate.

Restrictions:

- This measure cannot be used in conjunction with anti-sweat heat (ASH) controls

Measure Incentive Table

Measure Code	Equipment Description	2024 Estimated Incentive
SWCR002-04-A	Low-temperature reach-in display cases equipped with special display case glass doors that have no anti-sweat heaters	\$27.00 - \$58.00 per len-ft

Medium or Low-Temperature Display Case

Incentives Available for: SDG&E Electric and Gas Customers

Requirements:

- This measure is defined as the installation of each of the eighteen classes of refrigerated display cases
- To qualify for a financial incentive, the following requirements must be met:
 - Purchase a high-efficiency display case, with a rated daily energy consumption (DEC) that is the prescribed percentage efficiency at least above the Maximum Daily Energy Consumption (MDEC) permissible under the Code of Federal Regulations, effective March 27, 2017. Display case specification must be provided to support this requirement.
- Two sources for the display case specification are:
 - U. S. Department of Energy (DOE) Compliance Certification Database (<https://www.regulations.doe.gov/certification-data>).
 - ENERGY STAR® Certified Commercial Refrigerators and Freezers database (<https://www.energystar.gov/productfinder/product/certified-commercial-refrigerators-and-freezers>)
- Manufacturer specifications that include: brand name and model number, equipment category description and condensing unit configuration description, total display area (TDA) or volume, and tested MDEC.
- Documentation of the existing condition must include model number(s), serial number(s), or other information to validate a manufacture date before March 27, 2017.

Restrictions:

- This measure excludes display cases with a rated daily energy consumption (DEC) that is not at least prescribed percentage less than the Maximum Daily Energy Consumption (MDEC), permissible under the Code of Federal Regulations, effective March 27, 2017.
- National chain supermarket or national chain convenience stores are not eligible for the 2012 baseline.

Measure Incentive Table

Measure Code	Equipment Description	2024 Estimated Incentive
SWCR014-04-A-AJ	Various Configurations	\$14.00 - \$1,560 Each

Medium or Low-Temperature Display Case with Doors

Incentives Available for: SDG&E Electric and Gas Customers

The measure is defined as the replacement of an existing, open, vertical (or multi-deck) low-temperature or medium-temperature display cases with new, reach-in, glass door display case.

Requirements:

- Measure is applicable for supermarkets and grocery stores with stand-alone and/or multiplex compressor racks that provide refrigeration to remote display cases and walk-in coolers/freezers and have both medium-temperature and low temperature open multi-deck refrigeration cases
- 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 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
- New case setpoint temperature can not be lower than the original case setpoint temperature.
- This measure is only for display cases served by a remote refrigeration system

Restrictions:

- Specialty deli cases, custom coolers/freezers, and walk-in boxes with reach-in doors are not eligible
- Refurbished cases are not eligible unless compliant with the 2012 Federal Efficiency Standards
- Display case replacements that are part of large-scale store remodels and any new construction projects should be revised to be custom measures. Large-scale remodels are defined as any project involving 50% of the linear feet of refrigerated casework or 32 linear feet of casework replacements, whichever is less

Measure Incentive Table

Measure Code	Equipment Description	2024 Estimated Incentive
SWCR021-03-A	Display Case with Doors: Cooler, Medium Temperature	\$214.00 - \$304.00 per lin-ft
SWCR021-03-B	Display Case with Doors: Freezer, Low Temperature	\$331.00 per lin-ft

Medium-Temperature Case Doors

Incentives Available for: SDG&E Electric Customers

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.
- A refrigeration contractor with design experience should be consulted before proceeding with the retrofit.

Restrictions:

- The complete removal of the existing display case and replacing it with a new case with glass doors
- Total lighting power in the measure case may not exceed total lighting power in the base case
- Anti-sweat heat (ASH) may not be present in the glass doors or door mounting.

Measure Incentive Table

Measure Code	Equipment Description	2024 Estimated Incentive
SWCR015-03-A	Vertical ref case, med. temp: open w/ night covers to closed (retrofit)	\$55.00 - \$120.00 per len-ft
SWCR015-03-B	Vertical ref case, med. temp w/ night covers: open to closed with LED	\$69.00 - \$132.00 per len-ft

Notes:

- For both offerings "w/ night covers" means the base case includes night covers. As expected, night covers are not needed/used when cases have doors in the measure case.
- Offering B "with LED" means the existing fluorescent lighting will be removed and the new display case doors will include LED lighting.
- Offering A "without LED" means the existing display case will keep the LED lighting and the display case will not include new lighting.

Medium-Temperature Open Display Case Retrofit

Incentives Available for: SDG&E Electric Customers

Requirements:

- The medium-temperature display case must meet or exceed specifications and efficiency requirements through the use of a high efficiency evaporator coil
- The new display case must replace an existing medium-temperature, open, vertical refrigerated display case of the same style with an equivalent setpoint temperature and not higher than the replaced unit's setpoint temperature.
- The new display case must not have a lower total display area and higher lighting and/or anti-condensate heater wattage than the replaced case.
- The manufacturer spec sheet for the new display case must be submitted to the Program for review to confirm eligibility

Measure Incentive Table

Measure Code	Equipment Description	2024 Estimated Incentive
SWCR020-03-A	Medium temp open vertical refrigerated display case with a high efficiency evaporator coil	\$19.00 - \$24.00 per len-ft

Reach-in Refrigerator or Freezer

Incentives Available for: SDG&E Electric Customers

Requirements:

- Qualifying models must meet ENERGY STAR specifications
- Must replace a standard efficiency unit of the same configuration and capacity

Restrictions:

- Used or rebuilt equipment are not eligible.
- Units with remote refrigeration systems do not qualify

Measure Incentive Table

Measure Code	Product Volume (in cubic feet)	Equipment Description	2024 Incentive
SWCR018-04-A	< 15 ft ³	Glass-Door Reach-In Refrigerator	\$23.00 - \$31.00 per unit
SWCR018-04-B	15-29 ft ³		\$46.00 - \$63.00 per unit
SWCR018-04-C	30-49 ft ³		\$78.00 - \$106.00 per unit
SWCR018-43-D	>50 ft ³		\$79.00 - \$108.00 per unit
SWCR018-04-E	< 15 ft ³	Solid-Door Reach-In Refrigerator	\$39.00 - \$53.00 per unit
SWCR018-04-F	15-29 ft ³		\$45.00 - \$61.00 per unit
SWCR018-04-G	30-49 ft ³		\$45.00 - \$61.00 per unit
SWCR018-04-H	>50 ft ³		\$72.00 - \$98.00 per unit
SWCR018-04-I	< 15 ft ³	Glass-Door Reach-In Freezer	\$58.00 - \$74.00 per unit
SWCR018-04-J	15-29 ft ³		\$98.00 - \$133.00 per unit
SWCR018-04-K	30-49 ft ³		\$155.00 - \$210.00 per unit
SWCR018-04-L	>50 ft ³		\$235.00 - \$320.00 per unit
SWCR018-04-M	< 15 ft ³	Solid-Door Reach-In Freezer	\$29.00 - \$39.00 per unit
SWCR018-04-N	15-29 ft ³		\$75.00 - \$103.00 per unit
SWCR018-04-O	30-49 ft ³		\$79.00 - \$108.00 per unit
SWCR018-04-P	>50 ft ³		\$155.00 - \$210.00 per unit

V = Internal volume in ft³ (cubic foot)

Ultra-Low Temperature Freezer

Incentives Available for: SDG&E Electric Customers

Requirements:

- Qualifying freezers must be listed on Energy Star to be eligible, or the maximum daily energy consumption (MDEC) of an Ultra-Low Temp freezer at -75 °C (-103 °F) is 0.55 kWh/day/ft³
- Volume must be between 15 ft³ and 29 ft³
- Freezer must be capable of maintaining temperatures down between -70 °C and -80 °C (-94 °F and -112°F)

Measure Incentive Table

Measure Code	Equipment	2024 Estimated Incentive
SWCR017-04-A	Ultra-Low Temperature Freezer Volume: 15 to <24 ft ³	\$215.00 - \$584.00 per unit
SWCR017-04-B	Ultra-Low Temperature Freezer Volume: 24 to 29 ft ³	\$434.00 - \$1,172.00 per unit

Additional CEMS Program Offerings



The savings don't stop at the Fast-Track Incentives. If you have an energy-saving upgrade in mind but don't see it on this list, it may qualify for the CEMS Custom Incentive Program.

Pre-approval is required prior to equipment purchase and installation. Projects will be subject to an engineering review to ensure measures satisfy program requirements. Engineering assistance is available to all customers and Trade Professionals upon request.

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