

# SDG&E's Business Energy Solutions Program

## 2019 Product Catalog – Effective 8/1/19



ID	Product	Unit	Cost (\$)	Instant Rebate (\$)	Co-Pay (\$)
<b>LIGHTING</b>					
<b>LED Integral Lamp (Bulb)</b>					
464349	LED PAR30 14W	Lamp	9.00	9.00	-
464355	LED PAR30 15W	Lamp	10.00	10.00	-
464361	LED PAR30 16W	Lamp	10.50	10.50	-
464367	LED PAR30 17W	Lamp	11.75	11.75	-
464373	LED PAR30 18W	Lamp	12.50	12.50	-
464379	LED PAR30 19W	Lamp	13.50	13.50	-
464385	LED PAR30 20W	Lamp	14.25	14.25	-
464475	LED PAR38 25W	Lamp	14.50	14.50	-
464481	LED PAR38 26W	Lamp	15.00	15.00	-
464487	LED PAR38 ≥27W	Lamp	15.00	15.00	-
464709	LED R/BR Lamp 12W	Lamp	5.75	5.75	-
464715	LED R/BR Lamp 13W	Lamp	5.75	5.75	-
<b>Interior LED 4' T8 Lamp**</b>					
463991**	Interior 4' LED T8 Lamp (maximum quantity of 50 per account)	Lamp	15.00	15.00	-
463992**	Interior 4' LED T8 Lamp (any quantity over 50 must use this measure ID)	Lamp	15.00	6.00	9.00
<b>LED Troffers</b>					
464228	Interior LED Troffer (New): Size 1x4, 125 - 139 LPW <b>Rebate is calculated per kilolumen, not to exceed 4.5 kilolumens per fixture</b>	KiloLumen	Varies	5.00/KLM 13.50 max per fixture	Varies
464231	Interior LED Troffer (Retrofit Kit): Size 1x4, 125 - 139 LPW <b>Rebate is calculated per kilolumen, not to exceed 4.5 kilolumens per fixture</b>				
464234	Interior LED Troffer (New): Size 1x4, ≥140 LPW <b>Rebate is calculated per kilolumen, not to exceed 4.5 kilolumens per fixture</b>	KiloLumen		4.00/KLM 18.00 max per fixture	
464237	Interior LED Troffer (Retrofit Kit): Size 1x4, ≥140 LPW <b>Rebate is calculated per kilolumen, not to exceed 4.5 kilolumens per fixture</b>				
464227	Interior LED Troffer (New): Size 2x2, 125 - 139 LPW <b>Rebate is calculated per kilolumen, not to exceed 4.5 kilolumens per fixture</b>	KiloLumen		3.00/KLM 13.50 max per fixture	
464230	Interior LED Troffer (Retrofit Kit): Size 2x2, 125 - 139 LPW <b>Rebate is calculated per kilolumen, not to exceed 4.5 kilolumens per fixture</b>				
464233	Interior LED Troffer (New): Size 2x2, ≥140 LPW <b>Rebate is calculated per kilolumen, not to exceed 4.5 kilolumens per fixture</b>	KiloLumen		4.00/KLM 18.00 max per fixture	
464236	Interior LED Troffer (Retrofit Kit): Size 2x2, ≥140 LPW <b>Rebate is calculated per kilolumen, not to exceed 4.5 kilolumens per fixture</b>				
464226	Interior LED Troffer (New): Size 2x4, 125 - 139 LPW <b>Rebate is calculated per kilolumen, not to exceed 4.5 kilolumens per fixture</b>	KiloLumen		3.00/KLM 13.50 max per fixture	
464229	Interior LED Troffer (Retrofit Kit): Size 2x4, 125 - 139 LPW <b>Rebate is calculated per kilolumen, not to exceed 4.5 kilolumens per fixture</b>				
464232	Interior LED Troffer (New): Size 2x4, ≥140 LPW <b>Rebate is calculated per kilolumen, not to exceed 4.5 kilolumens per fixture</b>	KiloLumen		4.00/KLM 18.00 max per fixture	
464235	Interior LED Troffer (Retrofit Kit): Size 2x4, ≥140 LPW <b>Rebate is calculated per kilolumen, not to exceed 4.5 kilolumens per fixture</b>				

**\*\*This measure has a maximum quantity limit of 50 no-cost lamps per account. Any amount over 50 must use ID# 463992 and pay a \$9 co-pay per lamp. You may be able to qualify for On Bill Financing for the co-pay! Please ask your BES Contractor for more information.**

ID	Product	Unit	Cost (\$)	Instant Rebate (\$)	Co-Pay (\$)
<b>LIGHTING (continued)</b>					
<b>Interior LED Ambient Luminaires</b>					
467440	Interior LED Linear Ambient Luminaire (New): 2 ft., 125 - 139 LPW <b>Rebate is calculated per kilolumen, not to exceed 4.5 kilolumens per fixture</b>	KiloLumen	Varies	3.00/KLM 13.50 max per fixture	Varies
467446	Interior LED Linear Ambient Luminaire (Retrofit Kit): 2 ft., 125 - 139 LPW <b>Rebate is calculated per kilolumen, not to exceed 4.5 kilolumens per fixture</b>				
467439	Interior LED Linear Ambient Luminaire (New): 2 ft., ≥140 LPW <b>Rebate is calculated per kilolumen, not to exceed 4.5 kilolumens per fixture</b>	KiloLumen		4.00/KLM 18.00 max per fixture	
467445	Interior LED Linear Ambient Luminaire (Retrofit Kit): 2 ft., ≥140 LPW <b>Rebate is calculated per kilolumen, not to exceed 4.5 kilolumens per fixture</b>				
467442	Interior LED Linear Ambient Luminaire (New): 4 ft., 125 - 139 LPW <b>Rebate is calculated per kilolumen, not to exceed 4.5 kilolumens per fixture</b>	KiloLumen		3.00/KLM 13.50 max per fixture	
467448	Interior LED Linear Ambient Luminaire (Retrofit Kit): 4 ft., 125 - 139 LPW <b>Rebate is calculated per kilolumen, not to exceed 4.5 kilolumens per fixture</b>				
467441	Interior LED Linear Ambient Luminaire (New): 4 ft., ≥140 LPW <b>Rebate is calculated per kilolumen, not to exceed 4.5 kilolumens per fixture</b>	KiloLumen		4.00/KLM 18.00 max per fixture	
467447	Interior LED Linear Ambient Luminaire (Retrofit Kit): 4 ft., ≥140 LPW <b>Rebate is calculated per kilolumen, not to exceed 4.5 kilolumens per fixture</b>				
467444	Interior LED Linear Ambient Luminaire (New): 8 ft., 125 - 139 LPW <b>Rebate is calculated per kilolumen, not to exceed 4.5 kilolumens per fixture</b>	KiloLumen		3.00/KLM 13.50 max per fixture	
467450	Interior LED Linear Ambient Luminaire (Retrofit Kit): 8 ft., 125 - 139 LPW <b>Rebate is calculated per kilolumen, not to exceed 4.5 kilolumens per fixture</b>				
467443	Interior LED Linear Ambient Luminaire (New): 8 ft., ≥140 LPW <b>Rebate is calculated per kilolumen, not to exceed 4.5 kilolumens per fixture</b>	KiloLumen	4.00/KLM 18.00 max per fixture		
467449	Interior LED Linear Ambient Luminaire (Retrofit Kit): 8 ft., ≥140 LPW <b>Rebate is calculated per kilolumen, not to exceed 4.5 kilolumens per fixture</b>				
<b>Interior High Bay Luminaires</b>					
467587	Interior LED High Bay Luminaire: 4500 - 5399 lumens, ≥110 LPW - <130 LPW	Fixture	Varies	13.00	Varies
467599	Interior LED High Bay Luminaire: 4500 - 5399 lumens, ≥130 LPW	Fixture		19.00	
467588	Interior LED High Bay Luminaire: 5400 - 6499 lumens, ≥110 LPW - <130 LPW	Fixture		13.00	
467600	Interior LED High Bay Luminaire: 5400 - 6499 lumens, ≥130 LPW	Fixture		19.00	
467589	Interior LED High Bay Luminaire: 6500 - 7799 lumens, ≥110 LPW - <130 LPW	Fixture		13.00	
467601	Interior LED High Bay Luminaire: 6500 - 7799 lumens, ≥130 LPW	Fixture		19.00	
467590	Interior LED High Bay Luminaire: 7800 - 9399 lumens, ≥110 LPW - <130 LPW	Fixture		13.00	
467602	Interior LED High Bay Luminaire: 7800 - 9399 lumens, ≥130 LPW	Fixture		19.00	
467591	Interior LED High Bay Luminaire: 9400 - 11799 lumens, ≥110 LPW - <130 LPW	Fixture		13.00	
467603	Interior LED High Bay Luminaire: 9400 - 11799 lumens, ≥130 LPW	Fixture		19.00	
467592	Interior LED High Bay Luminaire: 11800 - 14799 lumens, ≥110 LPW - <130 LPW	Fixture		13.00	
467604	Interior LED High Bay Luminaire: 11800 - 14799 lumens, ≥130 LPW	Fixture		19.00	
467593	Interior LED High Bay Luminaire: 14800 - 18499 lumens, ≥120 LPW - <130 LPW	Fixture		13.00	
467605	Interior LED High Bay Luminaire: 14800 - 18499 lumens, ≥130 LPW	Fixture		19.00	
467594	Interior LED High Bay Luminaire: 18500 - 23099 lumens, ≥120 LPW - <130 LPW	Fixture		25.00	
467606	Interior LED High Bay Luminaire: 18500 - 23099 lumens, ≥130 LPW	Fixture		40.00	

ID	Product	Unit	Cost (\$)	Instant Rebate (\$)	Co-Pay (\$)
<b>LIGHTING (continued)</b>					
<b>Interior High Bay Luminaires (continued)</b>					
467595	Interior LED High Bay Luminaire: 23100 - 29999 lumens, $\geq 125$ LPW - $< 135$ LPW	Fixture	Varies	25.00	Varies
467607	Interior LED High Bay Luminaire: 23100 - 29999 lumens, $\geq 135$ LPW	Fixture		40.00	
467596	Interior LED High Bay Luminaire: 30000 - 38999 lumens, $\geq 125$ LPW - $< 135$ LPW	Fixture		25.00	
467608	Interior LED High Bay Luminaire: 30000 - 38999 lumens, $\geq 135$ LPW	Fixture		40.00	
467597	Interior LED High Bay Luminaire: 39000 - 50699 lumens, $\geq 125$ LPW - $< 135$ LPW	Fixture		25.00	
467609	Interior LED High Bay Luminaire: 39000 - 50699 lumens, $\geq 135$ LPW	Fixture		40.00	
467598	Interior LED High Bay Luminaire: 50700 - 65899 lumens, $\geq 125$ LPW - $< 135$ LPW	Fixture		25.00	
467610	Interior LED High Bay Luminaire: 50700 - 65899 lumens, $\geq 135$ LPW	Fixture		40.00	
<b>LED Outdoor Parking Garage Luminaires</b>					
467523	LED Outdoor Parking Garage Luminaire: 1800 – 2299 lumens, $\geq 120$ LPW	Fixture	Varies	10.00	Varies
467524	LED Outdoor Parking Garage Luminaire: 2300 – 2899 lumens, $\geq 120$ LPW	Fixture		13.00	
467525	LED Outdoor Parking Garage Luminaire: 2900 – 3599 lumens, $\geq 120$ LPW	Fixture		13.00	
467526	LED Outdoor Parking Garage Luminaire: 3600 – 4499 lumens, $\geq 120$ LPW	Fixture		15.00	
467527	LED Outdoor Parking Garage Luminaire: 4500 – 5599 lumens, $> 120$ LPW	Fixture		19.00	
467528	LED Outdoor Parking Garage Luminaire: 5600 – 6999 lumens, $> 120$ LPW	Fixture		19.00	
467529	LED Outdoor Parking Garage Luminaire: 7000 – 8799 lumens, $> 120$ LPW	Fixture		28.00	
467530	LED Outdoor Parking Garage Luminaire: 8800 – 11000 lumens, $> 120$ LPW	Fixture		28.00	

ID	Product	Unit	Cost (\$)	Instant Rebate (\$)	Co-Pay (\$)
<b>FOOD SERVICE</b>					
463498	Combination Oven – Electric (<15 Pans)	Oven	Varies	1350.00	Varies
463499	Combination Oven – Electric (15 to 28 Pans)	Oven		1375.00	
463500	Combination Oven – Electric (>28 Pans)	Oven		5000.00	
463501	Combination Oven – Gas (<15 Pans)	Oven		1100.00	
463502	Combination Oven – Gas (15 to 28 Pans)	Oven		1450.00	
463503	Combination Oven – Gas (>28 Pans)	Oven		2400.00	
402029	Commercial Gas Rack Oven – Double, Cooking Efficiency ≥ 50%	Unit		2000.00	
402026	Convection Oven – Electric	Oven		750.00	
402027	Convection Oven – Gas	Oven		500.00	
402032	Ventilation Control – Retrofit	Rated HP		1500.00	
402033	Ventilation Control – New	Rated HP		750.00	
402004	Fryer – Electric	Vat		650.00	
402005	Fryer – Gas	Vat		750.00	
462971	Griddle – Electric	Linear Ft		150.00	
462972	Griddle – Gas	Linear Ft		100.00	
402135	Steam Cooker – Electric	Steamer		1250.00	
402136	Steam Cooker – Gas	Steamer		2000.00	
464054	Commercial Ice Machines SCU <110 lbs/day	Unit		50.00	
464056	Commercial Ice Machines SCU 110-200 lbs/day	Unit		75.00	
464058	Commercial Ice Machines SCU >200 lbs/day	Unit		100.00	
464060	Commercial Ice Machines IMH <300 lbs/day	Unit		75.00	
464062	Commercial Ice Machines IMH 300 to 799 lbs/day	Unit		125.00	
464064	Commercial Ice Machines IMH 800 to 1499 lbs/day	Unit		200.00	
464066	Commercial Ice Machines IMH >1500 lbs/day	Unit		300.00	
464068	Commercial Ice Machines RCU <988 lbs/day	Unit		200.00	
464070	Commercial Ice Machines RCU 988 or greater lbs/day	Unit		300.00	

<b>HEATING</b>					
463332	Hot water boiler (<300 kBtuh, 90.0 AFUE, condensing)	kBtuh	100.00	2.00	98.00

<b>REFRIGERATION</b>					
402256	Evaporative Fan Controller for Walk-in Coolers	Controller	327.00	75.00	252.00
464028	High Efficiency Ultra Low Temperature Freezer (≤23 cubic feet)	Freezer	Varies	300.00	Varies
462353	Floating Suction Pressure – Grocery	Cap-Ton	Varies	29.00	Varies
462354	Floating Head Pressure, Fixed Set Point (air-cooled) – Grocery	Cap-Ton		29.00	
462355	Floating Head Pressure, Fixed Set Point (evap-cooled) – Grocery	Cap-Ton		29.00	
462665	Floating Head Pressure, Variable Set Point (air-cooled) – Grocery	Cap-Ton		51.00	
462666	Floating Head Pressure, Variable Set Point (evap-cooled) – Grocery	Cap-Ton		51.00	

ID	Product	Unit	Cost (\$)	Instant Rebate (\$)	Co-Pay (\$)
<b>REFRIGERATION (continued)</b>					
462846	Floating Head Pressure, Variable Set Point & Speed (air-cooled) – Grocery	Cap-Ton	Varies	200.00	Varies
462993	Floating Head Pressure, Variable Set Point & Speed (evap-cooled) – Grocery	Cap-Ton		200.00	
462817	Floating Suction Pressure – Refrigerated Warehouse	Cap-Ton		44.00	
462818	Floating Head Pressure, Fixed Set Point (evap-cooled) – Refrigerated Warehouse	Cap-Ton		29.00	
463325	Floating Head Pressure, Variable Set Point (evap-cooled) – Refrigerated Warehouse	Cap-Ton		51.00	
463326	Floating Head Pressure, Variable Set Point & Speed (evap-cooled) – Refrigerated Warehouse	Cap-Ton		239.00	

<b>VENTILATING AND AIR CONDITIONING (HVAC)</b>					
465645	Increase Refrigerant Charge from Typical Under-Charge (4-50%) to Factory Specified Level - Small Pkg AC system with No TXV	Cap-Ton	35.00	35.00	-
465647	Increase Refrigerant Charge from Typical Under-Charge (4-50%) to Factory Specified Level - Small Pkg AC system with TXV	Cap-Ton	35.00	35.00	-
465649	Decrease Refrigerant Charge from Typical Over-Charge (4-50%) to Factory Specified Level - Small Pkg AC system with No TXV	Cap-Ton	35.00	35.00	-
465651	Decrease Refrigerant Charge from Typical Over-Charge (4-50%) to Factory Specified Level - Small Pkg AC system with TXV	Cap-Ton	35.00	35.00	-
465653	Adjust Refrigerant Charge to Factory Specified Level (Under-Charged between 10-50%) - Small Pkg AC system with No TXV	Cap-Ton	35.00	35.00	-
465655	Adjust Refrigerant Charge to Factory Specified Level (Under-Charged between 10-50%) - Small Pkg AC system with TXV	Cap-Ton	35.00	35.00	-
465657	Adjust Refrigerant Charge to Factory Specified Level (Under-Charged between 4-5%) - Small Pkg AC system with No TXV	Cap-Ton	35.00	35.00	-
465659	Adjust Refrigerant Charge to Factory Specified Level (Under-Charged between 4-5%) - Small Pkg AC system with TXV	Cap-Ton	35.00	35.00	-
465661	Evaporator Coil Cleaning on Small Pkg AC system with No TXV	Cap-Ton	15.00	15.00	-
465663	Evaporator Coil Cleaning on Small Pkg AC system with TXV	Cap-Ton	15.00	15.00	-
465665	Condenser Coil Cleaning on Small Pkg AC system with No TXV	Cap-Ton	15.00	15.00	-
465667	Condenser Coil Cleaning on Small Pkg AC system with TXV	Cap-Ton	15.00	15.00	-

<b>WATER HEATING</b>					
402038	Commercial Boiler	MBtuh	150.00	0.50	149.50
465444	30 Gallon Storage Water Heater – New	MBtuh	Varies	2.00	Varies
465438	30 Gallon Storage Water Heater – Retrofit	MBtuh		2.00	
465446	40 Gallon Storage Water Heater – New	MBtuh		2.00	
465440	40 Gallon Storage Water Heater – Retrofit	MBtuh		2.00	
465447	50 Gallon Storage Water Heater – New	MBtuh		2.00	
465441	50 Gallon Storage Water Heater – Retrofit	MBtuh		2.00	
465448	50 Gallon Storage Water Heater – New	MBtuh		2.00	
465442	50 Gallon Storage Water Heater – Retrofit	MBtuh		2.00	
465449	50 Gallon Storage Water Heater – New	MBtuh		2.00	
465443	50 Gallon Storage Water Heater – Retrofit	MBtuh		2.00	
465474	Large Storage Water Heater – TE > 0.83 ≤ 0.90	MBtuh		2.00	

ID	Product	Unit	Cost (\$)	Instant Rebate (\$)	Co-Pay (\$)
<b>WATER HEATING (continued)</b>					
465476	Large Storage Water Heater – TE > 0.90	MBtuh	Varies	2.00	Varies
464268	Large Instantaneous Hot Water Heater – TE $\geq$ 0.80 < 0.85	MBtuh		0.50	
402040	Large Instantaneous Hot Water Heater – TE $\geq$ 0.85 < 0.90	MBtuh		0.50	
464270	Large Instantaneous Hot Water Heater – TE $\geq$ 0.90	MBtuh		0.50	
464073	Aerator Faucet for Commercial Buildings – Public – 0.5 gpm	Each	8.50	8.50	-
464075	Aerator Faucet for Commercial Buildings – Public – 1.0 gpm	Each	8.50	8.50	-
464079	Laminar Flow Restrictor – Health Care Facilities – 0.5 GPM flow rate	Each	17.50	17.50	-
464080	Laminar Flow Restrictor – Health Care Facilities – 1.0 GPM flow rate	Each	17.50	17.50	-
464081	Laminar Flow Restrictor – Health Care Facilities – 1.5 GPM flow rate	Each	17.50	17.50	-
465279	Low Flow Showerhead for Commercial Buildings – 1.5 GPM	Each	18.00	18.00	-
465280	Low Flow Showerhead for Commercial Buildings – 1.8 GPM	Each	18.00	18.00	-
467140	Flow Control Valve – 1.5 GPM – Commercial Showerhead	Each	37.00	37.00	
467146	Flow Control Valve – 1.0 GPM – Public Lavatory Faucet	Each	42.00	42.00	

**LIGHTING**

**GENERAL REQUIREMENTS**

- Customer must have a San Diego Gas & Electric® (SDG&E®) commercial electric account.
- Carefully read the specifications and definitions to determine whether your product(s) qualify.
- All new lighting fixture(s), retrofit kits, and components must carry the appropriate, designated Underwriters Laboratory (UL) or Intertek's Electrical Testing Labs (ETL) Listed Mark, and must be Restriction of Hazardous Substances Directive (RoHS) compliant.
- In all cases, the wattage of the replacement lighting equipment must be less than the wattage of the existing lighting equipment.
- Storage warehouses (rental spaces) qualify as interior space.
- Parking garages do not qualify as interior space. This includes conditioned and underground parking garages.
- All fixtures must be hardwired.

**LED PAR and R/BR TYPE LAMPS**

**Requirements:**

- New LED integral lamps must be listed on ENERGY STAR: <http://www.energystar.gov/productfinder>.
- LED reflector-lamps must replace existing incandescent, halogen, or compact fluorescent lamps.
- New LED lamps must have an integral LED driver.
- New LED lamps must be compatible with existing lighting controls and/or fixture components.

**Restrictions:**

- Adapters that convert LED lamp sockets from one base type to another are not allowed (e.g. GU 24 pin base to E26 screw base).

**Additional Details:**

- Rebate is based on lamp wattage, not total fixture wattage.

**INTERIOR LED T8 LAMP**

**This measure has a maximum quantity limit of 50 no-cost lamps per account. Any amount over 50 must use ID# 463992 and pay a \$9 co-pay per lamp. You may be able to qualify for On Bill Financing for the co-pay! Please ask your BES Contractor for more information.**

**Requirements:**

- Only 4-foot UL Type A LED T8 lamps installed on an interior fixture qualify
- New LED T8 Lamp must replace an existing 4-foot linear fluorescent T8 lamp
- The lamp must be listed under the Primary Use Category "Replacement Lamps ('plug and play') (UL Type A)" on the following list:
  - DLC: <http://www.designlights.org/QPL>
- New LED T8 Lamp must also meet the efficiency requirements as shown in the table below.

Performance Metric	SDG&E Program Requirement (no tolerance)
Luminaire Efficacy	≥110 LPW
CRI	≥80
CCT	≤5,000K
Power Factor	≥0.9
Total Harmonic Distortion	≤20%
Lamp System Wattage	≤ 17.7 Watts
Minimum Warranty	5 years

**Additional Details:**

- The LED T8 Lamp specification sheet must also list all the compatible ballast model numbers to ensure proper operation of the measure
- Lamp System Wattage is based on a Normal Ballast Factor of 0.88

### COMMERICAL INTERIOR LED TROFFER

**Requirements:**

- New LED fixture or integrated retrofit kit must replace an existing Linear Fluorescent Fixture on a 1-for-1 basis
- New LED luminaire must have rated lumen output similar to the rated lumen output of the fixture being replaced or retrofitted
- Fixtures/Retrofit Kits must be listed as DLC Premium by the Design Lights Consortium, version 4
- Products must be a Design Lights Consortium (DLC) approved New Luminaire or an Integrated Retrofit Kit, listed on the qualified product list as Luminaires/Integrated Retrofit Kits for Ambient Lighting of Interior Commercial Spaces in one of the following sizes: 2x4, 2x2, 1x4
- DLC-listed initial light output must be  $\geq 2200$  lm and  $\leq 6,500$  lm
- Only Fixtures and Retrofit kits that include new lenses between the LED package and the viewer qualify.
- Must meet the minimum efficacy requirements  $\geq 125$  LPW

DLC requirements for Integrated Retrofit Kits and Luminaires for Ambient Lighting of Interior Commercial Spaces include:

- 5-year warranty
- 50,000 hour L70 Lumen Maintenance
- 36,000 hour L90 Lumen Maintenance
- $\geq 80$  Color Rendering Index (CRI)
- DLC requirements have changed to have  $\geq 125$  lumens / Watt to meet premium qualifications
- $\leq 5000$  Kelvin Correlated Color Temperature (CCT)

**Restrictions:**

- Self-ballasted, screw-based or pin-based lamps do not qualify.
- Linear LED replacement lamps (TLEDs) do not qualify
- Other fixture configurations, including linear retrofit kits for LED troffers or external driver lamp-style retrofits (UL, Type C), do not qualify for this rebate.
- Fixtures listed under "Specialty" Primary Use types on DLC do not qualify for this rebate.
- Exterior or high/low-bay installations of these products do not qualify for this rebate.
- All LED Troffer and Integrated Troffer Retrofit Kit rebates are capped at 4.5 kilolumens per fixture



### INTERIOR LED LINEAR AMBIENT FIXTURE

**Requirements:**

- New LED fixture or retrofit kit must replace an existing Linear Fluorescent Fixture on a 1-for-1 basis
- New LED luminaire must have rated lumen output similar to the rated lumen output of the fixture being replaced or retrofitted
- Fixtures/Retrofit Kits must be listed as DLC Premium by the Design Lights Consortium, version 4
- Products must be a Design Lights Consortium (DLC) approved New Luminaire or Retrofit Kit, listed under one of the following categories:
  - Direct Linear Ambient Luminaires
  - Linear Ambient Luminaires with Indirect Component
  - Retrofit Kits for Direct Linear Ambient Luminaires
- DLC-listed initial light output must be  $\leq 6,500$  lm
- Must meet the minimum efficacy requirements  $\geq 125$  LPW

DLC requirements for Ambient Lighting of Interior Commercial Spaces include:

- 5-year warranty
- 50,000 hour L70 Lumen Maintenance
- 36,000 hour L90 Lumen Maintenance
- $\geq 80$  Color Rendering Index (CRI)
- DLC requirements have changed to have  $\geq 125$  lumens / Watt to meet premium qualifications
- $\leq 5000$  Kelvin Correlated Color Temperature (CCT)

**Restrictions:**

- Self-ballasted, screw-based or pin-based lamps do not qualify.
- Linear LED replacement lamps (TLEDs) do not qualify
- Other fixture configurations, including linear retrofit kits for LED troffers or external driver lamp-style retrofits (UL, Type C), do not qualify for this rebate.
- Fixtures listed under "Specialty" Primary Use types on DLC do not qualify for this rebate.
- Exterior or high/low-bay installations of these products do not qualify for this rebate.
- All Linear LED Ambient Fixtures and Retrofit Kit rebates are capped at 4.5 kilolumens per fixture

### LED OUTDOOR PARKING GARAGE FIXTURE

**Requirements:**

- Only exterior installations of LED fixtures or retrofit kits listed on DesignLights Consortium (DLC) under the following DLC categories, qualify for this rebate:
  - Parking Garage Luminaires
  - Retrofit Kits for Parking Garage Luminaires
- Must meet the minimum efficacy requirements  $\geq 120$  LPW

**Restrictions:**

- Self-ballasted, screw-based or pin-based lamps do not qualify.
- Products not listed in the parking garage categories above, including outdoor area and roadway luminaires, fuel pump canopy luminaires, architectural flood and spot luminaires, and landscape/accent flood and spot luminaires and bollards do not qualify.
- Interior installations do not qualify for this rebate.

### INTERIOR LED HIGH BAY FIXTURE

**Requirements:**

- Only interior installations of LED fixtures or retrofit kits listed on DesignLights Consortium (DLC) under the following DLC under the General Application category "High Bay" with the following Primary Use types, qualify for this rebate:
  - o High-Bay Luminaires for Commercial and Industrial Buildings
  - o Retrofit Kits for High-Bay Luminaires for Commercial and Industrial Buildings
  - o High-Bay Aisle Luminaires
  - o Low-Bay Luminaires for Commercial and Industrial Buildings
  - o Retrofit Kits for Low-Bay Luminaires for Commercial and Industrial Buildings
- Fixtures/retrofit kits must meet the minimum efficacy and lumen range for the appropriate measure code

**Restrictions:**

- Self-ballasted, screw-based or pin-based lamps do not qualify
- Horticultural installations do not qualify for this rebate
- Exterior installations do not qualify for this rebate
- Products not listed in the high-bay categories above, including LED troffers, troffer retrofit kits, linear LED retrofit kits, lamp style retrofit kits, linear ambient luminaires, do not qualify for this rebate

### LED OUTDOOR AREA LIGHTING

**Requirements:**

Products must adhere to the below qualifying categories and must be listed as DesignLights Consortium (DLC) Premium Classification to qualify for a rebate:

- Outdoor Pole/Arm-mounted Area and Roadway Luminaires (fixtures and retrofit kits)
- Large Outdoor Pole/Arm-mounted Area and Roadway Luminaires (retrofit kits)
- Outdoor Pole/Arm-mounted Decorative Luminaires (fixtures and retrofit kits)
- Parking Garage Luminaires (fixtures and retrofit kits)
- Outdoor Non/Semi/Full-cutoff Wall-mounted Area Luminaires (fixtures)
- Outdoor Full-cutoff Wall-mounted Area Luminaires (retrofit kits)
- Fuel Pump Canopy Luminaires (fixtures and retrofit kits)

**Restrictions:**

- Self-ballasted, screw-based or pin-based lamps do not qualify
- Architectural Flood and Spot Luminaires, Landscape/Accent Flood and Spot Luminaires, and Bollards do not qualify
- Interior installations do not qualify for a rebate

**FOOD SERVICES**

**GENERAL REQUIREMENTS**

- Customers must have a SDG&E non-residential electric account if applying for an electric measure, and a gas account if applying for a gas measure.
- All rebates apply toward the purchase of new or replacement energy-efficient equipment. Used or rebuilt equipment is not eligible.
- Contractor must provide proof that the appliance(s) meet the energy efficiency requirements.
- New equipment must replace existing equipment. A new addition is not eligible.
- All food service equipment must be listed on California Energy Wise: [caenergywise.com](http://caenergywise.com) to qualify or [www.energystar.gov/products](http://www.energystar.gov/products), unless otherwise noted in the product requirement section.

**COMBINATION OVEN – ELECTRIC & GAS**

**Requirements:**

- The combination oven must be listed on California Energy Wise: [caenergywise.com](http://caenergywise.com) or meet ENERGY STAR® specifications for energy efficiency to qualify.
- Electric ovens must have a tested steam mode cooking energy efficiency of ≥ 50%.
- Electric ovens must have a tested convection mode cooking energy efficiency of ≥ 70%.
- Gas ovens must have a tested steam mode cooking energy efficiency of ≥ 38%.
- Gas ovens must have a tested convection mode cooking energy efficiency of ≥ 44%.

**COMMERCIAL GAS RACK OVEN**

**Requirements:**

- The natural gas rack oven must be listed on California Energy Wise: [caenergywise.com](http://caenergywise.com) or meet ENERGY STAR® specifications for energy efficiency to qualify.

**CONVECTION OVEN – ELECTRIC & GAS**

**Requirements:**

- The convection oven must be listed on California Energy Wise: [caenergywise.com](http://caenergywise.com) or be listed in the California Energy Commission database and meet ENERGY STAR® specifications for energy efficiency to qualify.

**VENTILATION CONTROL – RETROFIT OR NEW**

**Requirements:**

- This rebate applies towards the purchase and installation of a new commercial kitchen exhaust hood control system installed in an existing or new dedicated commercial kitchen exhaust hood and make-up air system.
- The control system must be used in conjunction with variable speed fan motor controls.
- New hood installations must have total kitchen hood airflow less than 5,000 cfm.
- Rebate is based on the unit fan horsepower.

**FRYER – ELECTRIC & GAS**

**Requirements:**

- The fryer must be listed on California Energy Wise: [caenergywise.com](http://caenergywise.com) or meet ENERGY STAR® specifications for energy efficiency to qualify.
- Multiple vat configurations are paid per qualifying vat.

**GRIDDLE – ELECTRIC & GAS**

**Requirements:**

- The griddle must be listed on California Energy Wise: [caenergywise.com](http://caenergywise.com) or meet ENERGY STAR® specifications for energy efficiency to qualify.

**STEAM COOKER – ELECTRIC & GAS**

**Requirements:**

- The steam cooker must be listed on California Energy Wise: [caenergywise.com](http://caenergywise.com) or meet ENERGY STAR® specifications for energy efficiency to qualify.

**ICE MACHINE**

**Requirements:**

- Qualifying models must be listed in the California Energy Commission (CEE) database.
- Qualifying models must meet Qualified Ice Maker specifications listed on California Energy Wise: [caenergywise.com](http://caenergywise.com).
- Models must meet Energy Star Version 3.0 specifications
- Ice Machines must be tested in accordance with the AHRI Standard 810. Visit [ahrinet.org](http://ahrinet.org) to learn more about product information and testing procedures.
- This specification covers machines generating 60 grams (2oz.) or lighter ice cubes, as well as flaked, crushed and fragmented ice.
- Only air-cooled machines; self-contained (SCU), ice making heads (IMH) or remote condensing (RCU), are eligible.
- To qualify the entire Air Conditioning, Heat and Refrigeration Institute (AHRI) tested ice-making system. Remote machines must be purchased with qualifying remote condenser or remote condenser/compressor unit.
- Rebate amount depends on ice making rate (lbs./day). 'Day' is defined as
- Installation address must have a commercial electric account with SDG&E

**HEATING**

**GENERAL REQUIREMENTS**

- Customers must have a SDG&E non-residential gas account.
- All rebates apply toward the purchase of new or replacement energy-efficient equipment. Used or rebuilt equipment is not eligible.
- The California Energy Commission (CEC) and/or Gas Appliance Manufacturers Association (GAMA) equipment efficiency listed rating prevail over all submitted technical documentation, unless otherwise approved.

**HOT WATER BOILER**

**Requirements:**

- Only natural gas boilers <300 kBtuh qualify.
- Boiler must be used for space heating to induce human comfort.
- Boiler must meet 90.0 AFUE.
- Boiler must be equipped with automatic controls that reset the boiler supply temperature (between 140°F – 165°F) based on building loads or outside air temperature.
- Must include manufacturer's specification sheet documenting boiler type, input rating and efficiency rating.
- In accordance with California Public Utilities Code section 399.4(b), proof of permit closure may be required.

**REFRIGERATION**

**GENERAL REQUIREMENTS**

- Customers must have a SDG&E non-residential electric account if applying for an electric measure, and a non-residential gas account if applying for a gas measure.
- All rebates apply toward the purchase of new or replacement energy-efficient equipment. Used or rebuilt equipment is not eligible.
- Medium temperature refers to refrigerated space temperatures between 1°F and 35°F. Low temperature covers temperatures below 0°F.

**EVAPORATIVE FAN CONTROLLER FOR WALK-IN COOLERS**

**Requirements:**

- Must install an advanced controller on a refrigeration system of an existing walk-in cooler to decrease energy consumption by optimized control.
- Must reduce airflow of evaporator fans in medium-temperature walk-in coolers when compressor(s) cycle off and there is no refrigerant flow through the evaporator.
- Controller must be installed on an existing evaporative fan.
- Controller must be compatible with the existing refrigeration system so it does not degrade system performance.

**Restrictions:**

- Not eligible for the controller rebate if installing a new evaporative fan.
- This measure cannot be used in conjunction with a demand defrost controller.
- Do not install if the evaporator fan does not run 24/7 at full speed.

**Additional Details:**

- This measure applies to medium temperature ("cooler" – above 32°F).

**HIGH EFFICIENCY ULTRA LOW TEMP FREEZERS**

**Requirements:**

- Qualifying freezers must be listed on [Energy Star®](#) to be eligible.
- Doors mounted on vertical hinges.
- Volume must be between 15 and 23 ft<sup>3</sup> (0.425 -0.651 meters<sup>3</sup>).
- Freezer must be capable of maintaining temperatures down to -80°C.

**FLOATING SUCTION PRESSURE – GROCERY**

**Requirements:**

- Controller must increase the suction pressure based on worst-case zone demand.
- The maximum suction setpoint should be 5°F above the design temperature. The minimum suction setpoint should be the same as the base case.
- Controls must be added to an existing refrigeration system with at least five years of remaining useful life, and it cannot have variable speed evaporator fans.
- Equipment must be used for commercial refrigeration.

**FLOATING HEAD PRESSURE – GROCERY (FIXED SET POINT)**

**Requirements:**

- Controls must be added to an existing refrigeration system with at least five years of remaining useful life.
- Equipment must be used for commercial refrigeration.
- For air-cooled systems, the controls must operate with a 12°F temperature difference.
- For evaporative-cooled systems, the controls must operate with a 17°F temperature difference.
- Controls must change the head pressure based on ambient conditions and allow it to float to a minimum of 70°F.

**FLOATING HEAD PRESSURE – GROCERY (VARIABLE SET POINT)**

**Requirements:**

- Controls must replace an existing refrigeration system with at least five years of remaining useful life.
- Equipment must be used for commercial refrigeration.
- For air-cooled systems, the controls must operate with a 12°F temperature difference.
- For evaporative-cooled systems, the controls must operate with a 17°F temperature difference.
- Controller must change the head pressure based on ambient conditions and allow it to float to a minimum of 70°F.

**FLOATING HEAD PRESSURE – GROCERY (VARIABLE SET POINT & SPEED)**

**Requirements:**

- Controls must replace an existing refrigeration system with at least five years of remaining useful life.
- Equipment must be used for commercial refrigeration.
- For air-cooled systems, the controls must operate with a 12°F temperature difference.
- For evaporative-cooled systems, the controls must operate with a 17°F temperature difference.
- Controls must change the head pressure based on ambient conditions and allow it to float to a minimum of 70°F.
- Installation must also include the addition of VSDs to condenser fans. The VSDs will also change the fan speed based on ambient conditions.

**FLOATING SUCTION PRESSURE – REFRIGERATED WAREHOUSE**

**Requirements:**

- Controls must replace an existing refrigeration system with at least five years of remaining useful life.
- Equipment must be used for commercial refrigeration.
- For air-cooled systems, the controls must operate with a 12°F temperature difference.
- For evaporative-cooled systems, the controls must operate with a 17°F temperature difference.
- Controls must change the head pressure based on ambient conditions and allow it to float to a minimum of 70°F.
- Applicant must include a controller specification sheet and original project scope letter.
- Installation must also include the addition of VSDs to condenser fans. The VSDs will also change the fan speed based on ambient conditions

**FLOATING HEAD PRESSURE – REFRIGERATED WAREHOUSE (FIXED SET POINT)**

**Requirements:**

- Existing refrigeration system must have at least five years of remaining useful life.
- Equipment must be used to operate a refrigerated warehouse.
- The controls must operate with a 9°F temperature difference.
- Controls must change the head pressure based on ambient conditions and allow it to float to a minimum of 70°F.

**FLOATING HEAD PRESSURE – REFRIGERATED WAREHOUSE (VARIABLE SET POINT)**

**Requirements:**

- Existing refrigeration system must have at least five years of remaining useful life.
- Equipment must be used to operate a refrigerated warehouse.
- The controls must operate with a 9°F temperature difference.
- Controls must change the head pressure based on ambient conditions and allow it to float to a minimum of 70°F.

**FLOATING HEAD PRESSURE – REFRIGERATED WAREHOUSE (VARIABLE SET POINT & SPEED)**

**Requirements:**

- Existing refrigeration system must have at least five years of remaining useful life.
- Equipment must be used to operate a refrigerated warehouse.
- The controls must operate with a 9°F temperature difference.
- Controls must change the head pressure based on ambient conditions and allow it to float to a minimum of 70°F.
- Installation must also include the addition of VSDs to condenser fans. The VSDs will also change the fan speed based on ambient conditions.



## VENTILATING AND AIR CONDITIONING (HVAC)

### GENERAL REQUIREMENTS

- Customers must have a SDG&E commercial electric account if applying for an electric measure, and a commercial gas account if applying for a gas measure.
- It is the responsibility of the customer to ensure the equipment to be installed adheres to all state, local, and national building codes and ordinances, as well as the manufacturer's requirements.
- All rebates apply toward the purchase of new or replacement energy-efficient equipment. Used or rebuilt equipment is not eligible.

### INCREASE REFRIGERANT LEVEL (TYPICAL AND HIGH UNDER CHARGE)

#### Requirements:

- Measure and record existing refrigerant level at manufacturer recommended operating condition utilizing appropriate measurement tools.
- Record all field variables readings to support refrigerant level calculations.
- Utilize software or charts to calculate refrigerant level.
- If the deviation exceeds acceptable range, add refrigerant to bring the refrigerant level within guidelines.

### DECREASE REFRIGERANT LEVEL (TYPICAL AND HIGH OVER CHARGE)

#### Requirements:

- Measure and record existing refrigerant level at manufacturer recommended operating condition utilizing appropriate measurement tools.
- Record all field variables readings to support refrigerant level calculations.
- Utilize software or charts to calculate refrigerant level.
- If the deviation exceeds acceptable range, remove refrigerant to bring the refrigerant level within guidelines.

### COIL CLEANING

#### Requirements:

- Clean functioning evaporator or condenser coils on existing split-system and unitary direct expansion (DX) HVAC equipment which do not serve process or refrigeration loads.
- Field documentation of the existing conditions that verify the measure was necessary and that the measure was successfully applied.

**WATER HEATING**

**GENERAL REQUIREMENTS**

- Customers must have a SDG&E non-residential gas account.
- All rebates apply toward the purchase of new or replacement energy-efficient equipment. Used or rebuilt equipment is not eligible.
- The California Energy Commission (CEC) and/or Gas Appliance Manufacturers Association (GAMA) equipment efficiency listed rating prevail over all submitted technical documentation, unless otherwise approved.

**COMMERCIAL BOILER**

**Requirements:**

- Only natural gas boilers > 75,000 Btuh qualify.
- Must meet a minimum thermal efficiency of 84%.
- Must include a manufacturer's specification sheet documenting these characteristics.

**Restrictions:**

- Rebate does not apply to new construction.
- Boiler must not be used for space conditioning for human comfort.
- Boiler must not be used for industrial (process) end-use.
- Equipment used for pools and spas does not qualify.
- Industrial customers do not qualify.

**SMALL STORAGE WATER HEATERS**

**Requirements:**

- Water heaters must be listed on Energy Star® (<https://www.energystar.gov/productfinder/product/certified-water-heaters/>) to be eligible.
- Only storage water heaters as defined by the California Energy Commission qualify, and they must be used primarily for domestic hot water. Equipment used for space conditioning, industrial (process) end-use applications, pools, or spas does not qualify.
- Water heaters must meet or exceed the Unified Energy Factor (UEF) values and other efficiency requirements as shown in Table below.

Product Code	Description	Required Efficiency	Input Rating
465444	30 Gallon Storage Water Heater – New	UEF 0.64 < 0.68	≤ 75,000 MBtuh
465438	30 Gallon Storage Water Heater – Retrofit		
465446	40 Gallon Storage Water Heater – New	UEF 0.64 < 0.68	
465440	40 Gallon Storage Water Heater – Retrofit		
465447	40 Gallon Storage Water Heater – New	UEF ≥ 0.68	
465441	40 Gallon Storage Water Heater – Retrofit		
465448	50 Gallon Storage Water Heater – New	UEF 0.64 < 0.68	
465442	50 Gallon Storage Water Heater – Retrofit		
465449	50 Gallon Storage Water Heater – New	UEF ≥ 0.68	
465443	50 Gallon Storage Water Heater – Retrofit		

**LARGE STORAGE WATER HEATERS**

**Requirements:**

- Only storage water heaters as defined by the California Energy Commission qualify, and they must be used primarily for domestic hot water. Equipment used for space conditioning, industrial (process) end-use applications, pools, or spas does not qualify.
- Water heaters must have a NOx emission level that is less than 14 nanograms of NOx (calculated as NO2) per joule of heat output or less than or equal to 20 ppm (at 3% O2, dry)
- Water heaters must meet or exceed the Thermal Efficiency (TE) values and other efficiency requirements as shown in Table below.

Product Code	Description	Required Efficiency	Input Rating
465474	Large Storage Water Heater	TE > 0.83 ≤ 0.90	> 75,000 MBtuh
465476	Large Storage Water Heater	TE > 0.90	

**LARGE INSTANTANEOUS (TANKLESS) WATER HEATERS**

**Requirements:**

- Only instantaneous water heaters as defined by the California Energy Commission qualify, and they must be used primarily for domestic hot water. Equipment used for space conditioning, industrial (process) end-use applications, pools, or spas does not qualify.
- New instantaneous (tankless) water heaters must replace an existing storage water heater.
- Water heaters must provide hot water only when there is a hot water draw from the end use and should not be used to supply hot water to a circulation loop.
- Water heaters must not be connected to an external storage tank.
- Water heaters must meet efficiency requirements based on size shown in Table below.

Product Code	Description	Required Efficiency	Input Rating
464268	Large Instantaneous Hot Water Heater	TE ≥ 0.80 < 0.85	≥ 200 MBtuh
402040	Large Instantaneous Hot Water Heater	TE ≥ 0.85 < 0.90	
464270	Large Instantaneous Hot Water Heater	TE ≥ 0.90	

**AERATOR FAUCET FOR COMMERCIAL BUILDINGS**

**Requirements:**

- Installation of low-flow faucet aerators (0.5 GPM, 1.0 GPM flow rates) in commercial facilities to reduce water consumption and save energy associated with water heating.
- This energy efficiency measure is applicable to existing faucets in commercial buildings that have a maximum flow rate of 2.2 GPM or greater.
- *Measure must be installed on Public lavatory faucets only. Public lavatory faucets are defined as those found in bathrooms shared by a communal area such as a school, restaurant, hotel lobby, or office building. Private lavatory faucets are defined as those that are found in individual dwelling units such as a hotel/motel guest room, dorm room, or nursing home room.*
- Only facilities that utilize natural gas-powered water heating equipment are eligible to receive incentives for this measure. Natural gas must be supplied by an investor owned utilities (IOU).

### LAMINAR FLOW RESTRICTOR (LFR)

**Requirements:**

- This rebate is restricted to the health care industry and facilities that are subject to OSHPD code and regulation.
- Facility must utilize natural gas-powered water-heating equipment.
- LFRs installed must meet OSHPD code and regulation.
- Rebates do not apply to new construction.
- LFR models must be labeled as vandal proof for faucets, with the exception of dialysis and scrub sink locations that require an additional adaptor.
- Verify product eligibility at: <http://www.watersaversolutions.com/rebate>.

### LOW FLOW SHOWERHEADS

**Requirements:**

- Make and model must be included on application.
- Must replace an existing showerhead of 2.5 gpm flow rate or greater with a low-flow showerhead of 1.8 gpm or lower flow rate.
- Water heating source fuel must be natural gas.
- Rebates do not apply to new construction
- Low-flow showerhead must meet the requirement of test procedure ANSI/ASME A112.18.1-2000, Section 5.5.

### FLOW CONTROL VALVES (FCV)

**Requirements:**

- FCV make, model number and flow rate must be included.
- The FCV measure for faucets is applicable to existing faucets in commercial buildings that have a flow rate of 2.2 gpm or greater.
- Faucet FCVs shall be implemented at public lavatory faucets in commercial buildings as a Retrofit Add-on (REA). These building types include, but are not limited to, restaurants, hotels/motels, schools, universities, university campus housing, retail and offices.
- Public lavatory faucets are defined as those found in bathrooms shared by a communal area such as a school, restaurant, hotel lobby, or office building.
- FCVs installed in commercial faucets must be rated at 0.5 GPM for a mix/combined flow rate of 1.00 GPM.
- The commercial showerhead FCV is only be available in 1.5 gpm.

**Restrictions:**

- The FCV showerhead measures defined in this workpaper are applicable to existing buildings only. Newly constructed buildings, additions to existing buildings, and alterations to existing buildings are excluded.
- Faucets at health care facilities that are subject to the Office of Statewide Health Planning and Development (OSHPD) code and regulation (e.g. hospitals, clinics, skilled nursing facilities) are not applicable for this measure.

Products offered through SDG&E's Business Energy Solutions program are also provided through the Energy Efficiency Business Rebates program. Customers that are already working with a Trade Professional (e.g. project manager and installation companies) should visit [sdge.com/businessrebates](http://sdge.com/businessrebates) or call our Energy Savings Center at 1.800.644.6133 for details.

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