SDG&E's Business Energy Solutions Program 2023 Product Catalog



Product Code	Product Description	Unit	Co-pay / No Co- pay	Instant Rebate (\$)	Contractor
	LIGHTING				
	LED T8 Lamps – UL Type A				
463991	4-foot Interior LED T8 Lamp – UL Type A (AR)	Lamp	No Co-pay	N/A	Willdan
467154	4-foot Parking Garage LED T8 Lamp – UL Type A (AR)	Lamp		-	
	LED T8 Lamps – UL Type B			<u> </u>	
469182	4-foot Interior LED T8 Lamp – UL Type B (NR)	Lamp			
469183	4-foot Parking Garage LED T8 Lamp – UL Type B (NR)	Lamp	No Co-pay	N/A	Willdan
469174	4-foot Interior LED T8 Lamp – UL Type B (AR)	Lamp		,	
469175	4-foot Parking Garage LED T8 Lamp – UL Type B (AR)	Lamp			
	LED T8 Lamps – UL Type C		1	T	
469184	2-lamp Fixture with 4-foot Interior LED T8 Lamps – UL Type C	Fixture		6.00	
469185	2-lamp Fixture with 4-foot Parking Garage LED T8 Lamps – UL Type C	Fixture		6.00	
469186	3-lamp Fixture with 4-foot Interior LED T8 Lamps – UL Type C	Fixture	Co-pay	10.00	Willdan
469187	3-lamp Fixture with 4-foot Parking Garage LED T8 Lamps – UL Type C	Fixture	CO pay	10.00	
469188	4-lamp Fixture with 4-foot Interior LED T8 Lamps – UL Type C	Fixture		13.00	
469189	4-lamp Fixture with 4-foot Parking Garage LED T8 Lamps – UL Type C	Fixture		13.00	
	LED High Bay Luminaires				
467615	Interior LED High Bay Luminaire: 9400 - 11799 lumens, >= 155 LPW	Fixture		13.00	
467616	Interior LED High Bay Luminaire: 11800 - 14799 lumens, >= 155 LPW	Fixture		13.00	
467617	Interior LED High Bay Luminaire: 14800 - 18499 lumens, >= 155 LPW	Fixture		13.00	
467618	Interior LED High Bay Luminaire: 18500 - 23099 lumens, >= 155 LPW	Fixture		25.00	
467619	Interior LED High Bay Luminaire: 23100 - 29999 lumens, >= 155 LPW	Fixture	Co-pay	25.00	
467620	Interior LED High Bay Luminaire: 30000 - 38999 lumens, >= 155 LPW	Fixture	σο μα,	25.00	Willdan
467621	Interior LED High Bay Luminaire: 39000 - 50699 lumens, >= 155 LPW	Fixture		25.00	
467622	Interior LED High Bay Luminaire: 50700 - 65899 lumens, >= 155 LPW	Fixture		25.00	
	Custom Lighting				
469332	Lighting - Interior LED - MR-A -PAR - AR	Fixture		Varies	
469387	Lighting - Interior LED New Luminaire - AR	Fixture	1	Varies	
469388	Lighting - Interior Integrated LED Retrofit - AR	Fixture		Varies	
469389	Lighting - Interior LED New Luminaire - NR	Fixture		Varies	
469390	Lighting - Interior Integrated LED Retrofit - NR	Fixture	1	Varies	
469532	Lighting - Interior LED - MR-A -PAR - NR	Fixture	Varies	Varies	Willdan
469533	Lighting - LED Surface, Pendant, Track, Accent, and Recessed Downlight - NR	Fixture	1	Varies	
469535	Lighting - LED Surface, Pendant, Track, Accent, and Recessed Downlight - AR	Fixture		Varies	

Custom Lighting Fixture Varies	Product Code	Product Description	Unit	Co-pay / No Co- pay	Instant Rebate (\$)	Contractor		
Fixture		Custom Lighting (continued)						
Fixture Food SERVICE Combination Ovens Combination Combination Ovens Combination Ove	469536	Lighting - Exterior LED - Other - AR	Fixture		Varies			
A69919 Combination Oven: <15 Pans - Electric	469537	Lighting - Exterior LED - Other - NR	Fixture	Varies	Varies	Varies		
469919 Combination Oven: < 15 Pans - Electric Each 469920 Combination Oven: > 28 Pans - Electric Each 469921 Combination Oven: > 28 Pans - Electric Each 469922 Combination Oven: < 15 Pans - Gas Each 469922 Combination Oven: > 28 Pans - Gas Each 469923 Combination Oven: > 28 Pans - Gas Each 469924 Combination Oven: > 28 Pans - Gas Each 469925 Combination Oven: > 28 Pans - Gas Each 469925 Combination Oven: > 28 Pans - Gas Each 469926 Combination Oven: > 28 Pans - Gas Each Co-pay 2,000.00 Indicated I		FOOD SERVICE						
46992 Combination Oven: 15 - 28 Pans = Electric Each 469921 Combination Oven: 15 Pans = Gas Each 469922 Combination Oven: 15 Pans = Gas Each 469923 Combination Oven: 15 Pans = Gas Each 469924 Combination Oven: 28 Pans = Gas Each 469925 Combination Oven: > 28 Pans = Gas Each 469926 Griddle = Electric Each 469927 Steam Cooker = Electric Each 469928 Steam Cooker = Gas Each 469929 SCU Ice Machine: 110 Ibs./day Each 469930 SCU Ice Machine: 110 - 200 Ibs./day Each 469931 SCU Ice Machine: 300 Ibs./day Each 469932 IMH Ice Machine: 300 19s./day Each 469933 IMH Ice Machine: 800 - 1499 Ibs./day Each 469934 RCU Ice Machine: 1500 Ibs./day Each 469935 IMH Ice Machine: 988 Ibs./day Each 469936 RCU Ice Machine: - 1500 Ibs./day Each 469937 RCU Ice Machine: 988 Ibs./day Each 469938 MCU Ice Machine: 988 Ibs./day Each 469939 Demand Ventilation Control = Retrofit Rated HP Co-pay 150.00 Willdan 469930 Image RCU Ice Machine: 988 Ibs./day Each 469930 RCU Ice Machine: 988 Ibs./day Each 469931 RCU Ice Machine: 988 Ibs./day Each 469932 Image RCU Ice Machine: 988 Ibs./day Each 469933 Image RCU Ice Machine: 988 Ibs./day Each 469935 Image RCU Ice Machine: 988 Ibs./day Each 469936 RCU Ice Machine: 988 Ibs./day Each 469937 RCU Ice Machine: 988 Ibs./day Each 469938 Hand Wrap Machine = Electric Each 469939 Demand Ventilation Control = Retrofit Rated HP Co-pay 150.00 Willdan 469939 Image RCU Ice Machine: 988 Ibs./day Each 469930 Demand Ventilation Control = Retrofit Each 469930 Low-flow Pre-Rinse Spray Valve: 0.75 - 1.07 GPM - New Each 469930 Low-flow Pre-Rinse Spray Valve: 0.75 - 1.07 GPM - New Each 466000 Low-flow Pre-Rinse Spray Valve: 0.75 - 1.07 GPM - New Each 466000 Low-flow Pre-Rinse Spray Valve: 0.75 - 1.07 GPM - New Each 466000		Combination Ovens						
469921 Combination Oven: > 28 Pans - Electric Each 469922 Combination Oven: < 15 Pans - Gas Each 469923 Combination Oven: > 28 Pans - Gas Each 469924 Combination Oven: > 28 Pans - Gas Each 469925 Griddle - Electric Linear Ft. 469926 Griddle - Gas Linear Ft. 469927 Steam Cooker - Electric Each 469928 Steam Cooker - Gas Each 469929 SCU Ice Machine: < 110 lbs./day Each 469930 SCU Ice Machine: 200 lbs./day Each 469931 SCU Ice Machine: 300 lbs./day Each 469932 IMH Ice Machine: 300 ry9 lbs./day Each 469933 IMH Ice Machine: 800 - 1499 lbs./day Each 469934 IMH Ice Machine: 800 - 1499 lbs./day Each 469935 RCU Ice Machine: > 1500 lbs./day Each 469936 RCU Ice Machine: 988 lbs./day Each 469937 RCU Ice Machine: 988 lbs./day Each 469938 Hand Wrap Machine - Electric Demand Ventilation Controls 469939 Low-flow Pre-Rinse Spray Valve: 0.75 - 1.07 GPM - New Each 466000 Low-flow Pre-Rinse Spray Valve: < 0.75 GPM - New Each 466000 Low-flow Pre-Rinse Spray Valve: < 0.75 GPM - New Each 466000 Low-flow Pre-Rinse Spray Valve: < 0.75 GPM - New Each 466000 Low-flow Pre-Rinse Spray Valve: < 0.75 GPM - New Each 466000 Low-flow Pre-Rinse Spray Valve: < 0.75 GPM - New Each 466000 Low-flow Pre-Rinse Spray Valve: < 0.75 GPM - New Each 466000 Low-flow Pre-Rinse Spray Valve: < 0.75 GPM - New Each 466000 Low-flow Pre-Rinse Spray Valve: < 0.75 GPM - New Each 466000 Low-flow Pre-Rinse Spray Valve: < 0.75 GPM - New Each 466000 Low-flow Pre-Rinse Spray Valve: < 0.75 GPM - New Each 466000 Low-flow Pre-Rinse Spray Valve: < 0.75 GPM - New Each 466000 Low-flow Pre-Rinse Spray Valve: < 0.75 GPM - New Each 466000 Low-flow Pre-Rinse Spray Valve: < 0.75 GPM - New Each 466000 Low-flow Pre-Rinse Spray Valve: < 0.75 GPM - New Each 466000 Low-flow Pre-Rinse Spray Valve: < 0.75 GPM - New Each	469919	Combination Oven: < 15 Pans – Electric	Each		1,200.00			
A69922 Combination Oven: < 15 Pans – Gas	469920	Combination Oven: 15 - 28 Pans – Electric	Each		1,200.00			
469922 Combination Oven: 15 - 28 Pans - Gas Each 1,100.00 469924 Combination Oven: 25 - 28 Pans - Gas Each 1,000.00 469925 Combination Oven: 28 Pans - Gas Each 2,000.00 469925 Griddle - Electric Linear Ft. 469926 Griddle - Gas Linear Ft. 2,000.00 469926 Griddle - Gas Linear Ft. 2,000.00 469927 Steam Cooker - Electric Each 2,000.00 469928 Steam Cooker - Gas Each 2,000.00 469929 Steam Cooker - Gas Each 2,000.00 469930 SCU Ice Machine: <110 lbs./day Each 2,000.00 469931 SCU Ice Machine: ≥ 200 lbs./day Each 2,000.00 469932 IMH Ice Machine: ≥ 300 lbs./day Each 2,000.00 469933 IMH Ice Machine: ≥ 300 lbs./day Each 2,000.00 469934 IMH Ice Machine: ≥ 1500 lbs./day Each 2,000.00 469935 IMH Ice Machine: ≥ 988 lbs./day Each 2,000.00 469936 RCU Ice Machine: ≥ 988 lbs./day Each 2,000.00 469937 RCU Ice Machine: > 988 lbs./day Each 2,000.00 469938 Hand Wrap Machine: > 988 lbs./day Each 2,000.00 469939 Demand Ventilation Control - Retrofit Rated HP Co-pay 1500.00 Willdan 2,000.00 469930 Demand Ventilation Control - Retrofit Rated HP Co-pay 1500.00 Willdan 2,000.00 469930 Rou Ice Machine: > 988 lbs./day Each 2,000.00 2,000.	469921	Combination Oven: > 28 Pans – Electric	Each	Connu	2,000.00	Willdan		
A69924 Combination Oven: > 28 Pans - Gas	469922	Combination Oven: < 15 Pans – Gas	Each	Со-рау	1,100.00	vvillaari		
According Co-pay Co-pay	469923	Combination Oven: 15 - 28 Pans – Gas	Each		1,000.00			
A69925 Griddle - Electric Linear Ft. Co-pay 200.00 100.00 Willdam	469924	Combination Oven: > 28 Pans – Gas	Each		2,000.00			
A69926 Griddle – Gas		Griddles						
Steam Cookers	469925	Griddle – Electric	Linear Ft.	Consu	200.00	Willdan		
Steam Cooker - Electric Each Co-pay 2,800.00 1,800.00	469926	Griddle – Gas	Linear Ft.	Со-рау	100.00			
A69928 Steam Cooker - Gas Each Co-pay 1,800.00 Willidan		Steam Cookers						
Seam Cooker - Gas Fach 1,800.00 Willidan	469927	Steam Cooker – Electric	Each	Consu	2,800.00			
A69929 SCU Ice Machine: < 110 lbs./day Each 469930 SCU Ice Machine: 110 - 200 lbs./day Each 469931 SCU Ice Machine: > 200 lbs./day Each 469932 IMH Ice Machine: < 300 lbs./day Each 469933 IMH Ice Machine: 300 - 799 lbs./day Each 469934 IMH Ice Machine: 800 - 1499 lbs./day Each 469935 IMH Ice Machine: > 1500 lbs./day Each Each 469936 RCU Ice Machine: > 988 lbs./day Each	469928	Steam Cooker – Gas	Each	Со-рау	1,800.00	Willdan		
A69930 SCU Ice Machine: 110 - 200 lbs./day Each 469931 SCU Ice Machine: > 200 lbs./day Each Each 469932 IMH Ice Machine: < 300 lbs./day Each		Ice Machines						
A69931 SCU Ice Machine: > 200 lbs./day Each 469932 IMH Ice Machine: < 300 lbs./day Each 200.00	469929	SCU Ice Machine: < 110 lbs./day	Each		150.00			
A69932 IMH Ice Machine: < 300 lbs./day	469930	SCU Ice Machine: 110 - 200 lbs./day	Each		175.00			
A69933 IMH Ice Machine: 300 - 799 lbs./day Each 469934 IMH Ice Machine: 800 - 1499 lbs./day Each 469935 IMH Ice Machine: > 1500 lbs./day Each 469936 RCU Ice Machine: > 988 lbs./day Each 469937 RCU Ice Machine: > 988 lbs./day Each 500.00 500.00	469931	SCU Ice Machine: > 200 lbs./day	Each		220.00			
A69934 IMH Ice Machine: 800 - 1499 lbs./day Each 400.00	469932	IMH Ice Machine: < 300 lbs./day	Each		200.00			
469935 IMH Ice Machine: > 1500 lbs./day Each 500.00 469936 RCU Ice Machine: < 988 lbs./day	469933	IMH Ice Machine: 300 - 799 lbs./day	Each	Co-pay	270.00	Willdan		
469936 RCU Ice Machine: < 988 lbs./day	469934	IMH Ice Machine: 800 - 1499 lbs./day	Each		400.00			
469937 RCU Ice Machine: > 988 lbs./day Each 500.00 Demand Ventilation Controls 465990 Demand Ventilation Control – Retrofit Rated HP Co-pay 1500.00 Willdan Hand Wrap Machine 469938 Hand Wrap Machine – Electric Each Co-pay 125.00 Willdan Low Flow Pre-Rinse Spray Valves 465999 Low-flow Pre-Rinse Spray Valve: 0.75 - 1.07 GPM - New Each No Co-pay N/A Willdan 466001 Low-flow Pre-Rinse Spray Valve: 0.75 - 1.07 GPM - New Each No Co-pay N/A Willdan	469935	IMH Ice Machine: > 1500 lbs./day	Each		500.00			
Demand Ventilation Controls 465990 Demand Ventilation Control – Retrofit Rated HP Co-pay 1500.00 Willdan Hand Wrap Machine 469938 Hand Wrap Machine – Electric Each Co-pay 125.00 Willdan Low Flow Pre-Rinse Spray Valves 465999 Low-flow Pre-Rinse Spray Valve: 0.75 - 1.07 GPM - New Each 466001 Low-flow Pre-Rinse Spray Valve: 0.75 - 1.07 GPM - Retrofit Each 466000 Low-flow Pre-Rinse Spray Valve: 0.75 - GPM - New Each Willdan	469936	RCU Ice Machine: < 988 lbs./day	Each		395.00			
465990Demand Ventilation Control – RetrofitRated HPCo-pay1500.00WilldanHand Wrap Machine469938Hand Wrap Machine – ElectricEachCo-pay125.00WilldanLow Flow Pre-Rinse Spray Valves465999Low-flow Pre-Rinse Spray Valve: 0.75 - 1.07 GPM - NewEachNo Co-payN/A466001Low-flow Pre-Rinse Spray Valve: 0.75 - 1.07 GPM - RetrofitEachNo Co-payN/A466000Low-flow Pre-Rinse Spray Valve: < 0.75 GPM - New	469937	RCU Ice Machine: > 988 lbs./day	Each		500.00			
Hand Wrap Machine Hand Wrap Machine Hand Wrap Machine Each Co-pay 125.00 Willdan Low Flow Pre-Rinse Spray Valves Low-flow Pre-Rinse Spray Valves Low-flow Pre-Rinse Spray Valve: 0.75 - 1.07 GPM - New Each Low-flow Pre-Rinse Spray Valve: 0.75 - 1.07 GPM - Retrofit Each Low-flow Pre-Rinse Spray Valve: 0.75 - 1.07 GPM - New Each Low-flow Pre-Rinse Spray Valve: 0.75 GPM - New Each		Demand Ventilation Controls						
469938Hand Wrap Machine – ElectricEachCo-pay125.00WilldanLow Flow Pre-Rinse Spray Valves465999Low-flow Pre-Rinse Spray Valve: 0.75 - 1.07 GPM - NewEachAccordance Spray Valve: 0.75 - 1.07 GPM - RetrofitEachNo Co-payN/A466000Low-flow Pre-Rinse Spray Valve: < 0.75 GPM – New	465990	Demand Ventilation Control – Retrofit	Rated HP	Co-pay	1500.00	Willdan		
Low Flow Pre-Rinse Spray Valves 465999 Low-flow Pre-Rinse Spray Valve: 0.75 - 1.07 GPM - New Each 466001 Low-flow Pre-Rinse Spray Valve: 0.75 - 1.07 GPM - Retrofit Each 466000 Low-flow Pre-Rinse Spray Valve: < 0.75 GPM - New Each Willdan		Hand Wrap Machine						
465999 Low-flow Pre-Rinse Spray Valve: 0.75 - 1.07 GPM - New Each 466001 Low-flow Pre-Rinse Spray Valve: 0.75 - 1.07 GPM - Retrofit Each 466000 Low-flow Pre-Rinse Spray Valve: < 0.75 GPM - New	469938	Hand Wrap Machine – Electric	Each	Co-pay	125.00	Willdan		
466001 Low-flow Pre-Rinse Spray Valve: 0.75 - 1.07 GPM - Retrofit Each 466000 Low-flow Pre-Rinse Spray Valve: < 0.75 GPM – New Each No Co-pay N/A Willdan		Low Flow Pre-Rinse Spray Valv	es					
466000 Low-flow Pre-Rinse Spray Valve: < 0.75 GPM – New Each No Co-pay N/A Willdan	465999	Low-flow Pre-Rinse Spray Valve: 0.75 - 1.07 GPM - New	Each					
466000 Low-flow Pre-Rinse Spray Valve: < 0.75 GPM – New Each	466001	Low-flow Pre-Rinse Spray Valve: 0.75 - 1.07 GPM - Retrofit	Each	No Course	NI/A	NACH 1		
466002 Low-flow Pre-Rinse Spray Valve: < 0.75 GPM – Retrofit Each	466000	Low-flow Pre-Rinse Spray Valve: < 0.75 GPM – New	Each	по со-рау	IN/A	Willdan		
	466002	Low-flow Pre-Rinse Spray Valve: < 0.75 GPM – Retrofit	Each					

Product Code	Product Description	Unit	Co-pay / No Co- pay	Instant Rebate (\$)	Contractor	
	REFRIGERATION					
Ultra-Low Temperature Freezer 465356 Ultra-Low Temperature Freezer: ≥ 24 and ≤ 29 ft³			Co-pay	600.00	Willdan	
403330	Anti-Sweat Heater Controls	Each	Со-рау	000.00	vviiidaii	
465292	Anti-Sweat Heater Controls – Low Temperature	Linear Ft.	No Co-pay	N/A	Willdan and Synergy	
465294	Anti-Sweat Heater Controls – Medium Temperature	Linear Ft.	No Co-pay	N/A	Willdan	
	Floating Head Pressure Contro	ls				
467191	Saturated Discharge Controls – Air-cooled	Cap-Tons				
467195	Saturated Discharge Controls – Evaporative-cooled	Cap-Tons				
467193	Saturated Discharge Controls with Variable-Speed Fan – Air-cooled	Cap-Tons	Co-pay	29.00	Willdan	
467197	Saturated Discharge Controls with Variable-Speed Fan – Evaporative-cooled	Cap-Tons				
Suction Pipe Insulation						
465489	Insulate Bare Suction Pipes – Cooler	Linear Ft.	No Co nav	N/A	Willdan and Synergy	
465493	Insulate Bare Suction Pipes – Freezer	Linear Ft.	No Co-pay			
	Auto Door Closers					
465337	Auto Closer for Main Cooler Doors	Each	No Co-pay	N/A	Willdan	
465340	Auto Closer for Main Freezer Doors	Each	No co-pay	IN/A	willidan	
	WATER HEATING					
	Faucet Aerators			1		
464077	Faucet Aerator – Private Lavatory: 0.5 GPM	Each		21/2	Willdan and	
464078	Faucet Aerator – Private Lavatory: 1.0 GPM Faucet Aerator – Public Lavatory: 0.5 GPM	Each	No Co-pay	N/A	Synergy	
464073	Low-flow Showerheads	Each				
469940	Low-flow Showerhead: 1.5 GPM	Each			Willdan and	
469939	Low-flow Showerhead: 1.8 GPM	Each	No Co-pay	N/A	Synergy	
103333	Flow Control Valves	Lagin				
467943	Showerhead Flow Control Valve: 1.5 GPM	Each	No Co-pay	N/A	Willdan and Synergy	
	Laminar Flow Restrictors			•		
466287	Laminar Flow Restrictor: 1.2 GPM – Health Care Facilities	Each	No Co nov	NI/A	Willdan and	
466285	Laminar Flow Restrictor: 1.8 GPM – Health Care Facilities	Each	No Co-pay	N/A	Synergy	
	Pipe/Pipe Fitting Insulation			1		
466788	1" Pipe Insulation: Hot Water Pipe < 1" diameter – Indoor	Linear Ft.				
466734	1" Pipe Insulation: Hot Water Pipe, < 1" diameter – Outdoor	Linear Ft.	No Co-pay	N/A	Willdan and	
466789	1" Pipe Insulation: Hot Water Pipe, > 1", ≤ 4" diameter – Indoor	Linear Ft.		IN/A	Synergy	
466735	1" Pipe Insulation: Hot Water Pipe, > 1", ≤ 4" diameter – Outdoor	Linear Ft.				

Product Code	Product Description		Co-pay / No Co- pay	Instant Rebate (\$)	Contractor
	Pipe/Pipe Fitting Insulation (contin	nued)			
466790	1" Pipe Insulation: Hot Water Pipe, > 4" diameter – Indoor	Linear Ft.			
466736	1" Pipe Insulation: Hot Water Pipe, > 4" diameter – Outdoor	Linear Ft.			
466815	1" Fitting Insulation: Hot Water Pipe ≤ 1" diameter – Indoor	Each			
466761	1" Fitting Insulation: Hot Water Pipe \leq 1" diameter – Outdoor	Each			
466816	1" Fitting Insulation: Hot Water Pipe, > 1", ≤ 4" diameter – Indoor	Each			
466762	1" Fitting Insulation: Hot Water Pipe, > 1", ≤ 4" diameter – Outdoor	Each			
466817	1" Fitting Insulation: Hot Water Pipe, > 4" diameter – Indoor	Each			
466763	1" Fitting Insulation: Hot Water Pipe, > 4" diameter – Outdoor	Each			
466791	1" Pipe Insulation: ≤ 15 psig Steam Pipe, ≤ 1" diameter – Indoor	Linear Ft.			
466737	1" Pipe Insulation: ≤ 15 psig Steam Pipe, ≤ 1" diameter – Outdoor	Linear Ft.			
466792	1" Pipe Insulation: ≤ 15 psig Steam Pipe, > 1", ≤ 4" diameter – Indoor	Linear Ft.			
466738	1" Pipe Insulation: ≤ 15 psig Steam Pipe, > 1", ≤ 4" diameter – Outdoor	Linear Ft.			
466793	1" Pipe Insulation: < 15 psig Steam Pipe, > 4" diameter – Indoor	Linear Ft.			Willdan and Synergy
466739	1" Pipe Insulation: < 15 psig Steam Pipe, > 4" diameter – Outdoor	Linear Ft.			
466794	1" Pipe Insulation: > 15 psig Steam Pipe, ≤ 1" diameter – Indoor	Linear Ft.			
466740	1" Pipe Insulation: > 15 psig Steam Pipe, ≤ 1" diameter – Outdoor	Linear Ft.]		
466795	1" Pipe Insulation: > 15 psig Steam Pipe, > 1", < 4" diameter – Indoor	Linear Ft.	No Co-pay	N/A	
466741	1" Pipe Insulation: > 15 psig Steam Pipe, > 1", ≤ 4" diameter – Outdoor	Linear Ft.			
466796	1" Pipe Insulation: > 15 psig Steam Pipe, > 4" diameter – Indoor	Linear Ft.			
466742	1" Pipe Insulation: > 15 psig Steam Pipe, > 4" diameter – Outdoor	Linear Ft.			
466818	1" Fitting Insulation: ≤ 15 psig Steam Pipe ≤ 1" diameter – Indoor	Each			
466764	1" Fitting Insulation: ≤ 15 psig Steam Pipe ≤ 1" diameter – Outdoor	Each			
466819	1" Fitting Insulation: ≤ 15 psig Steam Pipe, > 1", ≤ 4" diameter – Indoor	Each			
466765	1" Fitting Insulation: ≤ 15 psig Steam Pipe, > 1", ≤ 4" diameter – Outdoor	Each			
466820	1" Fitting Insulation: < 15 psig Steam Pipe, > 4" diameter – Indoor	Each	1		
466766	1" Fitting Insulation: ≤ 15 psig Steam Pipe, > 4" diameter – Outdoor	Each			
466821	1" Fitting Insulation: > 15 psig Steam Pipe ≤ 1" diameter – Indoor	Each			
466767	1" Fitting Insulation: > 15 psig Steam Pipe ≤ 1" diameter – Outdoor	Each	1		
466822	1" Fitting Insulation: > 15 psig Steam Pipe, > 1", ≤ 4" diameter – Indoor	Each	1		
466768	1" Fitting Insulation: > 15 psig Steam Pipe, > 1", < 4" diameter – Outdoor	Each			
466823	1" Fitting Insulation: > 15 psig Steam Pipe, > 4" diameter – Indoor	Each	1		
466769	1" Fitting Insulation: > 15 psig Steam Pipe, > 4" diameter – Outdoor	Each	-		
	Hot Water Tank Insulation	<u> </u>	1	ı	
466693	1" Tank Insulation: Medium Temperature, Low Usage – Indoor	Square Ft.			
466694	1" Tank Insulation: Medium Temperature, Low Usage – Outdoor	Square Ft.	1		
466689	1" Tank Insulation: Medium Temperature, High Usage – Indoor	Square Ft.	No Co-pay	N/A	Willdan and
466690	1" Tank Insulation: Medium Temperature, High Usage – Outdoor	Square Ft.	1		Synergy

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Product Code	Product Description	Unit	Co-pay / No Co- pay	Instant Rebate (\$)	Contractor
	Hot Water Tank Insulation (contin	ued)			
466695	1" Tank Insulation: High Temperature, Low Usage – Indoor	Square Ft.			
466696	1" Tank Insulation: High Temperature, Low Usage – Outdoor	Square Ft.			
466691	1" Tank Insulation: High Temperature, High Usage – Indoor	Square Ft.			
466692	1" Tank Insulation: High Temperature, High Usage – Outdoor	Square Ft.	No Co-pay	N/A	Willdan and
466697	2" Tank Insulation: Medium Temperature, High Usage – Indoor	Square Ft.		,	Synergy
466698	2" Tank Insulation: Medium Temperature, High Usage – Outdoor	Square Ft.	-		5,8,
466699	2" Tank Insulation: High Temperature, High Usage – Indoor	Square Ft.	-		
466700	2" Tank Insulation: High Temperature, High Usage – Outdoor	Square Ft.	-		
400700					
	Fuel Substitution – Heat Pump Water	Heaters	1	I	
470052	Heat pump water heater, >= 45 to <= 55 gal, UEF = 3.30 replacing storage natural gas water heater, 50 gal, UEF = 0.63	Each			
470053	Heat pump water heater, >= 45 to <= 55 gal, UEF = 3.30 replacing tankless natural gas water heater, High Draw, UEF = 0.81	Each			
470050	Heat pump water heater, >= 45 to <= 55 gal, UEF = 3.50 replacing storage natural gas water heater, 30 gal, UEF = 0.60	Each			
470051	Heat pump water heater, >= 45 to <= 55 gal, UEF = 3.50 replacing storage natural gas water heater, 40 gal, UEF = 0.64	Each			
470056	Heat pump water heater, >= 45 to <= 55 gal, UEF = 3.50 replacing storage	Each	-		
470057	natural gas water heater, 50 gal, UEF = 0.63 Heat pump water heater, >= 45 to <= 55 gal, UEF = 3.50 replacing	Each			
470054	tankless natural gas water heater, High Draw, UEF = 0.81 Heat pump water heater, >= 45 to <= 55 gal, UEF = 3.75 replacing storage	Each			
470055	natural gas water heater, 30 gal, UEF = 0.60 Heat pump water heater, >= 45 to <= 55 gal, UEF = 3.75 replacing storage	Each			
470060	natural gas water heater, 40 gal, UEF = 0.64 Heat pump water heater, >= 45 to <= 55 gal, UEF = 3.75 replacing storage	Each	No Co-pay	N/A	Willdan and
470061	natural gas water heater, 50 gal, UEF = 0.63 Heat pump water heater, >= 45 to <= 55 gal, UEF = 3.75 replacing	Each			Synergy
470001	tankless natural gas water heater, High Draw, UEF = 0.81	Lacii			
470044	Heat pump water heater, > 55 to <= 75 gal, UEF = 3.30 replacing storage natural gas water heater, 60 gal, UEF = 0.61	Each			
470045	Heat pump water heater, > 55 to <= 75 gal, UEF = 3.50 replacing storage natural gas water heater, 60 gal, UEF = 0.61	Each			
470046	Heat pump water heater, > 55 to <= 75 gal, UEF = 3.75 replacing storage natural gas water heater, 60 gal, UEF = 0.61	Each			
470047	Heat pump water heater, > 75 gal, UEF = 3.30 replacing storage natural gas water heater, 75 gal, UEF = 0.59	Each			
470048	Heat pump water heater, > 75 gal, UEF = 3.50 replacing storage natural	Each			
470049	gas water heater, 75 gal, UEF = 0.59 Heat pump water heater, > 75 gal, UEF = 3.75 replacing storage natural	Each			
470058	gas water heater, 75 gal, UEF = 0.59 Heat pump water heater, >= 45 to <= 55 gal, UEF = 3.30 replacing storage	Each			
	natural gas water heater, 30 gal, UEF = 0.60				

	Fuel Substitution – Heat Pump Water Heaters (continued)					
470059	Heat pump water heater, >= 45 to <= 55 gal, UEF = 3.30 replacing storage	Each No Co-pay N/A		N/A	Willdan and	
	natural gas water heater, 40 gal, UEF = 0.64	Lacii	No co-pay	IN/A	Synergy	
470063	Commercial heat pump water heater, >= 100 gal, COP = 4.3 replacing	CapOut-				
	large natural gas, storage water heater, 100 gal, Et = 0.80	kBtuh				
470064	470064 Commercial heat pump water heater, >= 100 gal, COP = 4.3 replacing CapOut-					
	instantaneous natural gas water heater, 76 to 200 kBtu/hr, Et = 0.80		No Co-pay	N/A	Willdan	
470065	Commercial heat pump water heater, >= 100 gal, COP = 4.3 replacing	CapOut-				
	instantaneous natural gas water heater, > 200 kBtuh, Et = 0.80	kBtuh				

LIGHTING

GENERAL REQUIREMENTS

- Customer must have a San Diego Gas & Electric® (SDG&E) non-residential small commercial electric account.
- 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 T8 LAMP – UL Type A

- New LED T8 Lamp must be 4-foot and replace an existing 4-foot linear fluorescent T8 lamp.
- The existing linear fluorescent lamps must be replaced and disposed of rather than refurbished and sold.
- LED lamp must be designated as UL Type A or UL Type A+B, but must be configured as UL Type A.
- The lamp must be listed under the Primary Use Category "Replacement Lamps ("plug and play") (UL Type A)" or "Dual Mode Internal Driver (UL Type A and Type B)" on the current DesignLights Consortium (DLC) qualified product list.
 - o DLC: http://www.designlights.org/QPL
- TLEDs must be on the current DLC qualified products list and have a listed efficacy on the DLC of 145 LPW or higher.
- The existing linear fluorescent ballast must be used and ballast compatibility must be checked.
- The ballast must be dimmable if existing system was dimmable.
- The LED T8 Lamp specification sheet must list all the compatible ballast model numbers to ensure proper operation of the measure. If the existing ballasts are not listed on the compatible ballast list, the following criteria must be met in order to qualify for a rebate:
 - TLED must be installed in a manner that is consistent with all requirements listed in the TLEDs specification sheet.
 - o The ballasts that are not listed on compatible ballast list must be certified by independent test labs for compatibility and the certification must be submitted with the Installation Authorization.
 - o If a lab certification is not available a letter from the manufacturer showing ballast compatibility must be submitted as a part of the application.
- Due to testing considerations, only a product that can operate off an electronic instant start ballast is eligible.
- 4-foot Parking Garage LED T8 Lamps must be installed in a structure that meets the following definition: Parking Garage Building is a building with floor areas used for parking vehicles and consists of at least a roof over the parking area. The building includes areas for vehicle maneuvering to reach designated parking spaces. If the roof of a parking structure is also used for parking, the section without an overhead roof is considered an outdoor parking lot instead of a parking garage.
- New LED T8 Lamp must also meet the efficiency requirements as shown in the table below:

Performance Metric	SDG&E Program Requirement (no tolerance) Values must be listed on DLC
Luminaire Efficacy	≥ 145 LPW
CRI	<u>></u> 80
ССТ	2,200 K – 6,500 K
Power Factor	<u>≥</u> 0.9
Total Harmonic Distortion	<u>≤</u> 20%
Lumen Maintenance	L70 <u>></u> 50,000
Minimum Warranty	5 years

- Data that must be collected includes:
 - Customer/site information
 - o Building and vintage type
 - o Total number of fixtures on site
 - o Proof that the existing linear fluorescent lamps are still operating as intended
 - Number of fixtures sampled (must sample at least 10% of the total number of fixtures on site)
 - Number of lamps per fixture
 - o Number of ballasts per fixture
 - o Ballast model number
 - Ballast manufacturer
 - o Fluorescent lamp wattage
 - Disposal method of fluorescent tube
 - o Replacement TLED information
 - Manufacturer cut sheet showing ballast compatibility
- Accelerated Replacement (AR) offerings must conform with CPUC Guidance on data collection for preponderance of evidence showing
 program influence and viability. Programs shall document if the existing equipment was replaced as a direct result of information,
 recommendations, and support provided by the program administrator (PA), and programs shall require the collection and submission
 of documentation to ensure proper conformance with eligibility and implementation requirements. POE requirements vary based
 upon project incentive amounts. The Customer Affidavit Statement must be completed by every customer, regardless of the incentive
 level.

- De-lamping is not eligible.
- Re-ballast is not eligible.
- Replacement lamps designed to operate off existing magnetic ballasts or off other types of electronic ballasts do not qualify.

LED T8 LAMP – UL Types B & C

- New LED T8 Lamp must be 4-foot and replace an existing 4-foot linear fluorescent T8 lamp or fixtures with 2-lamp, 3-lamp, or 4-lamp fluorescent lamp and ballast systems.
- LED tube must be 4-foot and designated as UL Type B, UL Type A+B, or UL Type C. UL Type A+B (dual mode) lamps must be installed in a Type B configuration with the existing ballast removed.
- The lamp must be listed under the Primary Use Category "Internal Driver/Line Voltage (UL Type B) Lamps", "Dual Mode Internal Driver (UL Type A and Type B)", "2-Lamp External Driver (UL Type C) Lamps", "3-Lamp External Driver (UL Type C) Lamps", "4-Lamp External Driver (UL Type C) Lamps" on the current Design Lights Consortium qualified product list http://www.designlights.org/QPL.
- Must be on the current DLC qualified products list and have a listed efficacy on the DLC of 160 LPW or higher.
- LED tube must be compatible with the installed system lighting controls. For example, if the lighting system includes dimming controls, the new LED tube must be dimmable and compatible with the installed dimming system.
- New LED T8 Lamp must also meet the efficiency requirements as shown in the table below:

Performance Metric	SDG&E Program Requirement (no tolerance) Values must be listed on DLC
Luminaire Efficacy	≥ 160 LPW
CRI	<u>></u> 80
ССТ	2,200 K – 6,500 K
Power Factor	<u>≥</u> 0.9
Total Harmonic Distortion	<u>≤</u> 20%
Lumen Maintenance	L70 <u>></u> 50,000
Minimum Warranty	5 years

- Title 24 Since UL Type B and Type C offerings involve removing and replacing both existing lamps and ballasts with unlike equipment, they are considered alterations. Based on factors such as the amount of luminaires retrofitted and size of building, these offerings qualify as either "One-for-One Alterations" (§141.0(b)2lii) or "Entire Luminaire Alterations" (§141.0(b)2li) and (§141.0(b)2lii). Depending on the type of alteration, the comparison of the new LED power to either existing power or to Title 24 lighting power density (LPD) triggers some Title 24 controls requirements, such as multi-level control (§130.1(b))and automatic shutoff controls (§130.1(c)1-8). Regardless of which type of alteration is triggered, the alteration of the system "shall not prevent the operation of existing, unaltered controls, and shall not alter controls to remove functions specified in Section 130.1 (Mandatory Indoor Lighting Controls)." Thus, any existing lighting controls types must remain functional after installation.
 - Exemption from code:
 - §141.09(b)2I Retrofitting < 10% of luminaires in an enclosed space does not trigger code. However, verification of this exemption requires knowledge about the total number of luminaires in the space in question.
 - §141.09(b)2I Exemption 6. If the measure involves the retrofit of 50 or less luminaires per floor or tenant space, or in enclosed locations with only one luminaire then it does not trigger code.
- To ensure that code requirements for lighting power and controls are being met, the following data submission requirements must be met for all delivery types and measure application types.
 - o Documentation demonstrating compliance with Title 24 requirements.
 - o The customer must confirm that existing automated control functionality remains intact after installation.
- Documentation of EUL of equipment and confirmation that existing equipment has at least one year of RUL.
- Data that must be collected includes:
 - o Customer/site information
 - Building and vintage type
 - o Total number of fixtures on site
 - o Number of fixtures sampled (must sample at least 10% of the fixtures present)
 - Number of lamps per fixture
 - o Fluorescent lamp wattage
 - o Disposal method of fluorescent tube
 - Existing automated controls types in the spaces retrofitted
- Accelerated Replacement (AR) offerings must conform with CPUC Guidance on data collection for preponderance of evidence showing program influence and viability. Programs shall document if the existing equipment was replaced as a direct result of information, recommendations, and support provided by the program administrator (PA), and programs shall require the collection and submission of documentation to ensure proper conformance with eligibility and implementation requirements. POE requirements vary based upon project incentive amounts. The Customer Affidavit Statement must be completed by every customer, regardless of the incentive level.

- De-lamping is not eligible.
- Existing lamps and ballasts must be fully demolished and properly disposed. "Abandon-in-place" demolition of existing ballasts is not eligible.

INTERIOR LED HIGH BAY FIXTURE

Requirements:

- New LED fixture must replace a lumen equivalent fixture of higher wattage.
- Only interior installations of LED fixtures or retrofit kits listed on the current DesignLights Consortium (DLC) qualified product list qualify.
 - DLC: http://www.designlights.org/QPL
- The LED fixture or retrofit kit must be listed on DLC under the General Application Category "High Bay" with the following Primary Use Designations:
 - High-Bay Aisle Luminaires
 - o High-Bay Luminaires for Commercial and Industrial Buildings
 - o Low-Bay Luminaires for Commercial and Industrial Buildings
 - Retrofit Kits for High-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 product code. Data values for efficacy and lumen output must be listed on DLC. The product efficacy must meet or exceed the specified "measure case" efficacy based on the "rated" or "measured" efficacy in the DLC database. This requirement is to ensure the efficacy reported by the manufacturer has been confirmed by a third-party entity.
- Title 24 Since this offering involves removing and replacing both existing lamps and ballasts with unlike equipment, they are considered alterations. Based on factors such as the amount of luminaires retrofitted and size of building, these offerings qualify as either "One-for-One Alterations" (§141.0(b)2lii) or "Entire Luminaire Alterations" (§141.0(b)2li) and (§141.0(b)2lii). Depending on the type of alteration, the comparison of the new LED power to either existing power or to Title 24 lighting power density (LPD) triggers some Title 24 controls requirements, such as multi-level control (§130.1(b))and automatic shutoff controls (§130.1(c)1-8). Regardless of which type of alteration is triggered, the alteration of the system "shall not prevent the operation of existing, unaltered controls, and shall not alter controls to remove functions specified in Section 130.1 (Mandatory Indoor Lighting Controls)." Thus, any existing lighting controls types must remain functional after installation.
 - o Exemption from code:
 - §141.09(b)2I Retrofitting < 10% of luminaires in an enclosed space does not trigger code. However, verification of this exemption requires knowledge about the total number of luminaires in the space in question.
 - §141.09(b)2I Exemption 6. If the measure involves the retrofit of 50 or less luminaires per floor or tenant space, or in enclosed locations with only one luminaire then it does not trigger code.
- Data that must be collected includes:
 - o Customer/site information
 - Building and vintage type
 - o Installed fixtures identification (make, model number, serial number, installed location) Number of lamps per fixture
 - Rated lumens of the installed luminaires
 - o Rated efficacy (lumens/Watt) of the installed luminaires
 - Lighting power density calculations of the installed fixtures
 - Pre-existing luminaire type and wattage

- Fixtures listed under a Primary Use Category that begins with "specialty" are not eligible.
- Horticultural installations do not qualify.
- Exterior installations do not qualify.
- Screw-based lamps do not qualify.
- TLED tubes are not eligible

FOOD SERVICE

GENERAL REQUIREMENTS

- Customers must have a SDG&E non-residential small commercial 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.
- New equipment must replace existing equipment, unless otherwise noted in the product requirement section.
- All food service equipment must be listed on <u>energystar.gov</u>, to qualify unless otherwise noted in the product requirement section.
- Manufacturer's specification sheets must be provided.

COMBINATION OVEN

Requirements:

• The combination oven must meet the requirements listed in the table below.

COMBINATION OVEN TYPE	STEAM MODE COOKING EFFICIENCY (%)	CONVECTION MODE COOKING EFFICIENCY (%)	STEAM MODE IDLE RATE R149	CONVECTION MODE IDLE RATE R149
Electric < 15 pan	≥ 50	≥ 70	≤ 5.0 kW	≤ 2.0 kW
Electric 15-28 pan	≥ 50	≥ 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

- Data that must be collected includes:
 - Manufacturer and model number
 - Quantity of pans (hotel pan size) oven can accommodate
 - o Customer/site information
 - Building and vintage type

GRIDDLE

Requirements:

- The griddle manufacturer and model must be ENERGY STAR® qualified.
 - o Energy Star: http://www.energystar.gov/products
- Data that must be collected includes:
 - o Manufacturer and model number
 - o Customer/site information
 - o Building and vintage type

Restrictions:

• Double-sided griddles are not eligible.

ICE MACHINE

- Program qualifying ice machines are defined by equipment type and daily ice harvest rate. The efficiency specifications must meet the requirements listed in the Measure Case Description for batch and continuous machines, per the ENERGY STAR V3.0 Program Requirements for Automatic Commercial Ice Makers.
 - o Energy Star: http://www.energystar.gov/products
- The ice machine must meet the energy efficiency specifications listed the Measure Case Description section.
- 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.
- Only air-cooled machines self-contained (SCU), icemaker heads (IMH), or remote condensing (RCU) are eligible.
- Data that must be collected includes:
 - o Manufacturer and model number
 - Customer/site information
 - Building and vintage type
- Program qualifying ice machines must meet the criteria listed in the table below.

EQUIPMENT TYPE	DAILY ICE HARVEST RATE (LBS ICE/DAY)
Ice Maker Head (IMH)	< 300
	300 - 799
	800 - 1,499
	≥1,500
Remote Condensing Unit (RCU)	< 988
onit (RCO)	≥ 988
Self-Contained Unit (SCU)	< 110
	110 - 199
	≥ 200

• Water-cooled ice machines do not qualify.

STEAM COOKER

- New commercial steam cookers must meet the ENERGY STAR Program Requirements for Commercial Steam Cookers, Version 1.2 or the specification in the Measure Case Description.
 - o Energy Star: http://www.energystar.gov/products
- Program steam cookers must meet the criteria listed in the table below.

STEAMER TYPE	PAN CAPACITY	MINIMUM COOKING EFFICIENCY	IDLE ENERGY RATE
Electric	3-pan	50%	400 W
	4-pan	50%	530 W
	5-pan	50%	670 W
	6-pan and greater	50%	800 W
Gas	3-pan	38%	6,250 Btu/hr
	4-pan	38%	8,350 Btu/hr
	5-pan	38%	10,400 Btu/hr
	6-pan and greater	38%	12,500 Btu/hr

- Data that must be collected includes:
 - o Manufacturer and model number
 - o Number of Pans
 - Cooking Efficiency (%)
 - o Idle Energy Rate (kW or Btu/hr)
 - o Customer/site information
 - Building and vintage type

DEMAND VENTILATION CONTROL

Requirements:

- The new commercial kitchen exhaust hood control system must be installed in an existing dedicated commercial kitchen exhaust hood and makeup air system.
- Installation must include temperature sensor(s) in the hood exhaust collar or within the hood, and/or an optic sensor on the end of the hood or within the hood that senses cooking conditions and allows the system to automatically vary the rate of exhaust and make-up (ventilation) air by adjusting unit fan speeds accordingly.
- The control system must be used in conjunction with a variable-speed drive (VSD) on the fan motor.
- Installations in a new exhaust hood must have a total kitchen hood airflow ≤ 5,000 cfm.
- If installed in an existing exhaust hood > 5,000 cfm, the existing hood must have been installed before July 1, 2014 due to code requirements.
- The customer must provide verification of total exhaust cfm controlled by the new or existing kitchen hood to verify eligibility of the measure.
- Data that must be collected includes:
 - Manufacturer and model number
 - Customer/site information
 - Building and vintage type

HAND-WRAP MACHINE

- New hand-wrap machine must be on-demand and replace a conventional or always-on hand-wrap machine.
- The measure must use either a mechanical or optical control system.
- Data that must be collected includes:
 - Manufacturer and model number
 - Rated capacity
 - o Rated efficiency and unit
 - o Customer/site information
 - Building and vintage type

LOW-FLOW PRE-RINSE SPRAY VALVE

Requirements:

- Must be either:
 - O A new commercial-grade PRSV with a maximum flow rate \leq 0.75 gpm that replaces a PRSV with a maximum flow rate of 1.00 gpm for a spray force of \leq 5.0 ozf. Must replace a PRSV with a maximum flow rate of 1.00 gpm.
 - O A new commercial-grade PRSV with a maximum flow rate \leq 1.07 gpm that replaces a PRSV with a maximum flow rate of 1.20 gpm for a spray force of > 5.0 ozf and \leq 8.0 ozf. Must replace a PRSV with a maximum flow rate of 1.20 gpm
- This measure is restricted to operations with natural gas water heaters only.
- This measure is governed by the Code of Federal Regulations (10 CFR 431.263). This measure is not covered by the California Building Energy Efficiency Standards (Title 24). The California Appliance Efficiency Regulations will align with the 2019 federal standards.
- Data that must be collected includes:
 - o Manufacturer and model number
 - o Flow rate
 - Water fuel type
 - o Customer/site information
 - o Building and vintage type

REFRIGERATION

GENERAL REQUIREMENTS

- Customers must have a SDG&E non-residential small commercial electric account if applying for an electric measure, and a non-residential gas account if applying for a gas measure.
- 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.
- All rebates apply toward the purchase of new or replacement energy-efficient equipment. Used or rebuilt equipment is not eligible.

ULTRA-LOW TEMPERATURE FREEZER

- Ultra-Low Temperature (ULT) freezer must be upright and designed for a laboratory application within the following building types: Education (University), Health/Medical (Hospital), Manufacturing (Biotech or Pharmaceuticals).
- The ULT freezer must maintain a setpoint storage temperature between -70°C and -80°C (-94°F and -112°F).
- The ULT freezer must be listed on Energy Star® to qualify or have a maximum daily energy consumption (MDEC) at -75 °C (-103 °F) of 0.55 kWh/day/ft3.
 - o Energy Star: http://www.energystar.gov/products
- Volume must be ≥ 24 ft³ ≤ 29 ft³.
- Data that must be collected includes:
 - o Manufacturer and model number
 - Setpoint storage temperature
 - o Volume
 - Customer/site information
 - o Building and vintage type

ANTI-SWEAT HEATER CONTROLS

Requirements:

- The anti-sweat heater (ASH) controls must be installed on reach-in low-temperature (freezer, case temperature below 32 °F) or medium-temperature (cooler, case temperature at or above 32 °F) display case that operates at full power, 100% of the time.
- To qualify, the 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.
- As the humidity falls below 55%, power reduction should decrease by at least 2% for every percentage drop.
- Equivalent technologies that can reduce or turn off ASHs based on the amount of condensation formed on the inner glass pane *may* also qualify.
- This measure is applicable for commercial, grocery, lodging (hotel), restaurant (fast-food), restaurant (sit-down), retail (multistory large), retail (single-story large), and retail (small) buildings, since the use of ASH controls is most common in these building types. Buildings with all HVAC system types are eligible.

Restrictions:

- Multiplex systems majorly upgraded or installed after July 1, 2014 do not qualify since the Title-24 code mandates floating controls.
- This measure cannot be used in conjunction with the new refrigeration display case with doors.
- This measure cannot be used in conjunction with the special doors with low/no anti-sweat heat on low-temperature display case.
- Data that must be collected includes:
 - Customer/site information
 - Building and vintage type

FLOATING HEAD PRESSURE CONTROLS

Requirements:

- Controls must be added to an existing air-cooled or evaporative-cooled multiplex refrigeration system that has a fixed Saturated Condensing Temperature (SCT) control.
- Controls must float head pressure down to a lower pressure when conditions permit (i.e., changes control from fixed set point to floating set point), reducing the SCT setpoint to a minimum of 70°F based on ambient conditions.
- The new SCT setpoint must follow the ambient temperature by controlling condenser fans with variable-speed drives or by staging condenser fans.
- For air-cooled systems, the SCT must be controlled to follow +12°F temperature difference or lower.
- For evaporative-cooled systems, the SCT must be controlled to follow a +17°F temperature difference or lower.
- If back-flood controls are present, the back-flood control setpoint must be 68°F or lower.
- Rebate is based on the design cooling load (tons), which accounts for connected display cases, walk-in coolers and freezers, and cooled storage and prep areas only.
- Data that must be collected includes:
 - Customer/site information
 - o Building and vintage type
 - Vintage of the refrigeration multiplex site

- Projects that only reprogram a controller are not eligible.
- Any improvements that will increase system energy use.
- Buildings constructed after 2013 are not eligible.
- Sub-cooler loads and air conditioning loads are not eligible.
- Multiplex systems majorly upgraded or installed after July 1, 2014 do not qualify since the Title-24 code mandates floating controls.

SUCTION PIPE INSULATION

Requirements:

- The eligible measure offerings for bare refrigeration line insulation are:
 - o Insulation of bare suction lines for medium-temperature, walk-in coolers.
 - o Insulation of bare suction lines for low-temperature, walk-in freezers.
- Insulation must be added to an existing refrigeration system with un-insulated suction refrigeration pipes that are no more than 1-5/8 inches in diameter.
- Bare suction pipes must be insulated with closed-cell nitrite rubber or equivalent with at least ¾-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 pipes.
- Insulation R-values must be greater than or equal to R-4.3 low-temperature freezer pipes.
- Data that must be collected includes:
 - o Existing refrigeration system type (walk-in cooler or freezer)
 - o Existing equipment manufacturer and model number
 - Existing equipment rated capacity (Btu/hr)
 - Existing equipment refrigerant type
 - o Existing equipment compressor rated EER
 - Existing suction line length (in.)
 - o Existing suction line diameter (in.)
 - Applied insulation type (closed-cell nitrite rubber or equivalent)
 - Insulation R-Value (Btu/hr/ft2-°F)
 - Customer/site information
 - Building and vintage type

AUTO DOOR CLOSERS

- The automatic closer must be installed on a walk-in cooler or freezer that was manufactured before January 1, 2009.
- The automatic door closer must be installed on the main insulated opaque door(s) of an existing walk-in cooler or freezer.
- The automatic door closer must firmly close the door when it is within one inch of full closure.
- The automatic door closer must be installed on a walk-in cooler or a walk-in freezer door that was not previously equipped with one.
- Data that must be collected includes:
 - o Manufacturer and model number
 - o Existing equipment manufacturer and model number
 - o Freezer or cooler vintage
 - o Closer type (snub type latching closer, armature or swing arm closer, or other)
 - Customer/site information
 - Building and vintage type

WATER HEATING

GENERAL REQUIREMENTS

- Customers must have a SDG&E non-residential public sector gas account.
- All rebates apply toward the purchase of new, add-on, 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.

FAUCET AERATOR

Requirements:

- New faucet aerator must have a flow rate of 1.0 GPM or lower and be installed on an existing faucet that has a flow rate of 1.67 GPM or greater.
- Only facilities that utilize natural gas water heating equipment are eligible to receive a rebate.
- The faucet aerator can be installed in a public or private lavatory in a commercial building:
 - A private lavatory faucet is located in an individual dwelling unit such as a private office.
 - o A public lavatory faucet is located in a bathroom shared by a communal area, such as a school or office building.
- Data that must be collected includes:
 - o Manufacturer and model number
 - o Flow rate (gpm)
 - o Customer/site information
 - Building and vintage type

Restrictions:

- 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) do not qualify. The use of aerators is banned in the health care industry due to aerator flow control methods and components. Non-aerating laminar flow restrictors (LFRs) must be installed on faucets in these facilities.
- Newly constructed buildings, additions to existing buildings, and alterations to existing buildings are excluded.

LOW-FLOW SHOWERHEAD

- New low-flow showerhead must have a flow rate of 1.8 GPM or lower and replace an existing showerhead with a flow rate of 2.5 GPM or greater.
- Only facilities that utilize natural gas water heating equipment are eligible to receive a rebate.
- The installed low-flow showerhead shall meet the requirements of test procedure ANSI/ASME A112.18.12000, Section 5.5
- Make and model number must be included with a copy of the invoice.
- Data that must be collected includes:
 - Manufacturer and model number
 - Flow rate (gpm)
 - o Customer/site information
 - Building and vintage type

SHOWERHEAD FLOW CONTROL VALVE

Requirements:

- New flow control valve must be installed on an existing showerhead with a flow rate of 2.5 GPM or greater, reducing the flow rate to 1.5 GPM or lower.
- Only facilities that utilize natural gas water heating equipment are eligible to receive a rebate.
- This measure is applicable for Hotel, Motel, and Education facilities of new and existing vintages.
- Accelerated Replacement (AR) offerings must conform with CPUC Guidance on data collection for preponderance of evidence showing
 program influence and viability. Programs shall document if the existing equipment was replaced as a direct result of information,
 recommendations, and support provided by the program administrator (PA), and programs shall require the collection and submission
 of documentation to ensure proper conformance with eligibility and implementation requirements. POE requirements vary based
 upon project incentive amounts. The Customer Affidavit Statement must be completed by every customer, regardless of the incentive
 level.
- Data that must be collected includes:
 - Manufacturer and model number (new and pre-existing)
 - o Performance flow rate measurements (new and existing)
 - Photograph of pre-existing equipment in place and operating
 - o Customer/site information
 - Building and vintage type

FAUCET FLOW CONTROL VALVE

Requirements:

- New faucet aerator must have a flow rate of 1.0 GPM or lower and be installed on an existing faucet that has a flow rate of 1.67 GPM or greater.
- Only facilities that utilize natural gas water heating equipment are eligible to receive a rebate.
- The faucet aerator can be installed in a public or private lavatory in a commercial building:
 - A private lavatory faucet is located in an individual dwelling unit such as a private office.
 - A public lavatory faucet is located in a bathroom shared by a communal area, such as a school or office building.
- Data that must be collected includes:
 - Manufacturer and model number
 - o Flow rate (gpm)
 - o Customer/site information
 - Building and vintage type

- 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) do not qualify. The use of aerators is banned in the health care industry due to aerator flow control methods and components. Non-aerating laminar flow restrictors (LFRs) must be installed on faucets in these facilities.
- Newly constructed buildings, additions to existing buildings, and alterations to existing buildings are excluded.

LAMINAR FLOW RESTRICTOR

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 that utilize natural gas-powered water-heating equipment.
- The laminar flow restrictor must be installed on an existing faucet without a flow restriction device.
- The new device must meet OSHPD code and regulation.
- The laminar flow restrictor must be labeled as "Vandal Proof" or must not be removable without a proprietary tool, except for dialysis and scrub sink locations.
- Data that must be collected includes:
 - o Manufacturer and model number
 - o Flow rate (gpm)
 - o Customer/site information
 - o Building and vintage type

Eligible Building Types

These facilities include (but are not limited to):

- Hospitals (large regional or local)
- Emergency rooms
- In-patient and outpatient facilities and medical office buildings connected to or No Copay standing from main hospitals
- Doctor offices (e.g. general practitioners, pediatricians, optometrists, chiropractors, etc.)
- Clinics and nursing homes

Restrictions:

• New construction health care facilities do not qualify.

PIPE FITTING INSULATION

Requirements:

- A minimum of one inch of pipe insulation must be added to an existing bare commercial or industrial steel or copper pipe or pipe fitting (elbows, tees, valves, unions, flanges, reducers, bushings, couplings, etc.).
- The pipe must have a minimum diameter of ½-inch and transfer hot water, low-pressure steam, or medium-pressure steam directly from gas-fired equipment, and the fluid type must be indicated. If the fluid is steam, the pressure of the steam must also be indicated.
- 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 steam pipes include silicone foam rubber, melamine foam, rigid urethane-based foam, cellular glass, rigid fiberglass, and rigid mineral wool.
- The manufacturer's specification sheet must be submitted.
- The length of insulation to be installed with each pipe size must be indicated.
- Data that must be collected includes:
 - Manufacturer and model number
 - Insulation material type
 - Insulation material k-value rating
 - Insulation thickness
 - Fluid temperature (hot water, <15 psi steam, >15 psi steam)
 - Pipe diameter (inches)
 - o Evidence of prior tank insulation (or any insulation fragments)
 - Location where burns can be sustained (Yes/No)
 - o Customer/site information
 - Building and vintage type

- Insulation required by California Building Energy Efficiency Standards (Title 24) or employee safety laws (Occupational Safety and Health Administration, OSHA) does not qualify.
- Replacement of damaged (existing) insulation does not qualify.

HOT WATER TANK INSULATION

Requirements:

- 1-inch or 2-inch fiberglass or foam insulation must be installed on an existing, bare liquid solution storage or transfer tank.
- The tank must be coupled to gas-fired commercial, industrial, or agriculture equipment that transfers heat to the contained liquid or solution.
- Data that must be collected includes:
 - Manufacturer and model number
 - o Insulation material type
 - o Insulation material k-value rating
 - o Insulation thickness
 - o Process temperature (temperature inside the tank)
 - o Evidence of prior tank insulation (or any insulation fragments)
 - o Location where burns can be sustained (Yes/No)
 - Customer/site information
 - Building and vintage type

- The following conditions and applications are not eligible:
 - 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.
- The California Occupational Safety and Health Standards Board, Section 3308 requires employers to insulate or guard hot pipes and hot surfaces of 140 °F or higher that are located within seven feet of the floor or within 15 inches from stairways, ramps, or fixed ladders R903. Any tank requiring insulation per these standards is not eligible.
- The 2016 version of the California Building Energy Efficiency Standards (Title 24), Section 110.3 establishes requirements for tank insulation in the design and installation of space-conditioning and service water heating systems and equipment R684 (Section 123). Any tank requiring insulation per these standards does not qualify for a rebate.

FUEL SUBSTITUTION HEAT PUMP WATER HEATER

- The heat pump water heater must replace an existing natural gas water heater that meets the minimum federal code.
- The heat pump water heater must meet the storage capacity and minimum efficiency requirements set forth in the Measure Case Description section.
- Existing base equipment must be disposed.
- 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 which 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.
- For downstream direct install delivery types, in addition to the standard information such as building type, climate zone, and capacity of the units, the following data must be submitted with each project application by the project developer:
 - What is the existing fuel type for space heating?
 - O 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).
- Data that must be collected includes:
 - Manufacturer and model number
 - o Install Location (Conditioned; Unconditioned)
 - HPWH Input Rating (kW)
 - HPWH Output Capacity (kBtuh)*
 - Heat pump water heater storage capacity (gallons)
 - Coefficient of Performance (COP)*
 - Uniform Energy Factor (UEF)
 - HPWH First Hour Rating (FHR)
 - Draw pattern only required for HPWH < 100 gallons
 - Customer existing baseline fuel type (water heater)*
 - Existing water heater type
 - Existing Water Heater Capacity (kBtuh)*
 - Existing water heater storage capacity (gallons)
 - Existing water heater first hour rating (FHR)
 - o Is heat pump water heater intake ducted to outside or unconditioned space?*
 - o Have existing gas lines been capped?*
 - o Has the existing equipment been properly disposed of and not abandoned in place?
 - o Is the Water Heater used for space heating, domestic hot water, pools, or spas?*
 - Does the buildings require a water heating system heating capacity greater than 1,000 kBtu/hr?*
 - o Is this measure limited to only the primary water heater (not a backup for redundancy)?*
 - o If the heat pump is comprised of multiple heaters and storage tanks, have all heat pump technical documents and diagrams been uploaded?*
 - Size of the existing panel (Amps)
 - Number of circuit slots in existing panel
 - O Size of the new panel (Amps) If panel upgrade
 - o Number of circuit slots in new panel
 - Upgrade(s) of the panel, wiring, or outlets (or any combination of those) required?
 - o Are any other infrastructure upgrades (ex: sub panel, split circuit, etc.) required? If yes, what upgrades?
 - o Labor cost of panel upgrade
 - Equipment cost of panel upgrade
 - Labor cost of wiring upgrade

- Equipment cost of wiring upgrade
- o Labor cost of outlet upgrade
- o Equipment cost of outlet upgrade
- Labor cost of other infrastructure upgrades
- Equipment cost of other infrastructure upgrades
- o The total labor cost of any and all infrastructure upgrades completed as part of the fuel substitution measure installation
- o The equipment cost of any and all infrastructure upgrades completed as part of the fuel substitution measure installation
- The total cost (labor and equipment) of any and all infrastructure upgrades completed as part of the fuel substitution measure installation
- o List other electrification measures installed with the heat pump water heater
- o What is the square footage of the air conditioned space in the building that will be conditioned by the new fuel sub measure?
- If infrastructure was upgraded, when did the customer begin seeking the electrification upgrade
- o If infrastructure was upgraded, when was the upgrade was completed
- Cost of capping off or removing any gas pipes or flues
- o The program(s) name(s) of any Federal or other state programs that provided any monetary support for the fuel sub measure
- o The total dollar value of any Federal or other state programs that provided any monetary support for the fuel sub measure
- o For installations in conditioned space, the building heating and cooling type (e.g., packaged AC with gas furnace, packaged heat pump, central plant CHW/HW)*
- o If site required electric infrastructure upgrades, have itemized invoices with costs been submitted?
- Data collection requirements marked with * are only required for offerings tied to measure package SWWH028.

- The measure is not applicable for new construction installations. However new services, as defined in Fuel Substitution Technical Guidance, Version 1.1, are eligible. New service measures are only eligible for direct install applications, when:
 - Measures are installed in new areas of an existing building,
 - Measures are installed in a major renovation of an existing building, or
 - Measures are installed in capacity expansions of existing systems to serve existing and/or new load retrofits that require a new energy service.
 - These exceptions will follow the same baseline technology requirements as a normal replacement measure application type.

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