BEFORE THE PUBLIC SERVICE COMMISSION OF THE STATE OF MISSOURI

In the Matter of Kansas City Power & Light)	
Company's Notice of Intent to File an)	
Application for Authority to Establish a Demand-)	File No. EO-2015-0240
Side Programs Investment Mechanism)	
In the Matter of KCP&L Greater Missouri Operations)	
Company's Notice of Intent to File an)	
Application for Authority to Establish a Demand-)	File No. EO-2015-0241
Side Programs Investment Mechanism)	

KANSAS CITY POWER & LIGHT COMPANY'S AND KCP&L GREATER MISSOURI OPERATIONS COMPANY'S NOTICE OF UPDATE TO APPLICATION FOR APPROVAL OF MODIFICATION TO ITS DEMAND-SIDE PROGRAMS

COME NOW Kansas City Power & Light Company and KCP&L Greater Missouri Operations Company (collectively the "Company") and for its *Notice of Update to the Company's Application for Approval of Modification to Its Demand-Side Programs* ("Notice of Update") in this docket states as follows:

- 1. The Company's Application for Approval of Modification to Its Demand-Side Programs ("Original Application") was filed in the above-captioned dockets on February 10, 2017. Attachment B to the Original Application was a copy of the Company's updated TRM with proposed changes ("Original TRM").
- 2. After filing the Original Application the Company identified a few minor errors in the Original TRM that need to be corrected. Attached please find an updated Attachment B ("Corrected TRM") which contains the necessary corrections, as detailed below:
 - a. For Small Business Direct Install new measures with primary keys of 230-233 that were added to the 2017-02-01 TRM, the incremental measure costs were

incorrect and have been updated. The new values align the incremental measure

cost with the same measures in the Business Standard Program.

b. The incremental measure costs have been updated for measures with primary keys

149, 149.1, 150, 150.1, 151, 151.1, 152, and 152.1. This is to correct a formula

error discovered in the original TRM dated 2016-03-07.

c. For the measure with the primary key of 146, the coincident peak demand savings

(kW/unit) was inadvertently deleted with the recently updated TRM dated 2017-

02-01. The value is added back on this newer version of the TRM dated 2017-02-

28.

WHEREFORE, the Company offers this Notice of Update and the attached Corrected

TRM and requests the Missouri Public Service Commission to consider the previously-filed

Original Application as amended and corrected by the requested changes contained in the

Corrected TRM, as detailed above.

Respectfully submitted,

|s| Roger W. Steiner

Robert J. Hack, MBN 36496

Phone: (816) 556-2791

E-mail: rob.hack@kcpl.com Roger W. Steiner, MBN 39586

Phone: (816) 556-2314

E-mail: roger.steiner@kcpl.com

Kansas City Power & Light Company

1200 Main – 19th Floor

Kansas City, Missouri 64105

Fax: (816) 556-2110

Attorney for Kansas City Power & Light Company

and KCP&L Greater Missouri Operations Company

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CERTIFICATE OF SERVICE

I do hereby certify that a true and correct copy of the foregoing document has been hand delivered, emailed or mailed, postage prepaid, this 28^{th} day of February, 2017, to all parties of record.

|s| Roger W. Steiner

Roger W. Steiner

Published 3/4/2016

 Valid for Program Implementation Dates:
 Early 2016
 to
 36 months following

 Search using Drop-down Filters in Headers
 Column Label:
 H
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Count: 162 Column Equation: see column R = H/LMeasure Description Gross Measure Valu Incremental **Electric Energy** Nameplate Peak **Primary End Use Unit Definition Measure Cost** Savings (Annual **Demand Savings** Coincidence Program Segment **Measure Name** Notes Key (\$/Unit) kWh/unit) (kW/unit) Factor ncome-Eligible Multi-Family Lighting Screw In - CFLs (Food Bank Distribution) 0001 \$1.70 28.2901 0.030 9.5% per lamp \$15.00 30.9532 Home Lighting Rebate ΑII Lighting Screw In - LEDs 0002 per lamp 0.033 9.5% 139.000 ome Appliance Recycling Rel **Appliances** Dehumidifier Recycle 0003 \$49.0 oer unit Home Appliance Recycling Reb **Appliances** Freezer - Recycle 0004 oer unit \$93.0 1.201.000 ome Appliance Recycling Re **Appliances** Refrigerator - Recycle 0005 er unit \$93. 1,190.000 ome Appliance Recycling Re **Appliances** Room A/C Recycle 0006 er unit \$49. 121.000 Whole House Efficiency Single Family Lighting Screw In - CFLs 0007 \$1.70 28.2901 0.030 10% Tier 1 per lamp Whole House Efficiency ingle Family Lighting Screw In - LEDs 0008 Tier 1 per lamp \$15.0 30.953 0.0310% 33.1677 0.035 Screw In - LEDs 0008.3 \$15.00 10% Whole House Efficiency Single Family Lighting Tier 1 per lamp Whole House Efficiency Single Family Hot Water Low Flow Faucet Aerator 0009 Tier 1 per unit \$2.80 65.4500 2% Whole House Efficiency Single Family Hot Water Pipe Insulated 0010 Tier 1 \$9.00 74.0357 0.008 per unit Whole House Efficiency Single Family Hot Water Low Flow Showerhead 0011 Tier 1 per unit \$15.00 272.9500 3% Single Family Water Heater Tank Wrap Whole House Efficiency Hot Water 0012 Tier 1 per unit \$18.00 131.2958 0.015 Whole House Efficiency Single Family Electronics Smart Power Strip 0013 Tier 1 per unit \$15.00 73.7300 80% HVAC - Shell 0014 \$0.12 0.2300 Whole House Efficiency Single Family Air Sealing Tier 2 per sq ft (floor are \$0.76 Whole House Efficiency Single Family HVAC - Shell Increased Ceiling Insulation 0015 Tier 2 per sq ft (ceiling a 0.5200 per sq ft (wall are Whole House Efficiency HVAC - Shell Increased Wall Insulation Tier 2 \$1.32 0.7200 Single Family 0016 Whole House Efficiency Single Family HVAC - Shell **ENERGY STAR Windows** 0017 Tier 2 per sq ft (window \$1.50 2.0500 Heat Pump Water Heater Whole House Efficiency Single Family Hot Water 0018 Tier 3 \$1,000.00 1.766.0000 0.697 12% per unit Whole House Efficiency Single Family **HVAC** Efficient ECM Fan 0019 Tier 3 per unit \$353.76 608.1000 68% **HVAC** Heat Pump Ductless Mini Split 0020 Tier 3 \$715.90 1,314.5143 Whole House Efficiency Single Family per unit Whole House Efficiency Single Family **HVAC** Air Conditioner SEER 15 0021 Tier 3 per ton \$184.25 149.5400 68% Whole House Efficiency Single Family **HVAC** Air Conditioner SEER 15 - Early Retirement 0022 Tier 3 per ton \$607.09 486.0050 68% 68% Whole House Efficiency Single Family HVAC Air Conditioner SEER 15 - Early Retirement (future) 0023 Tier 3 per ton \$422.84 149.5400 HVAC 0024 Tier 3 \$276.38 210.2906 68% Whole House Efficiency Single Family Air Conditioner SEER 16 per ton Single Family HVAC 0025 \$699.22 546.7556 68% Whole House Efficiency Air Conditioner SEER 16 - Early Retirement Tier 3 per ton Whole House Efficiency Single Family HVAC Air Conditioner SEER 16 - Early Retirement (future) 0026 Tier 3 per ton \$422.84 210.2906 68% Whole House Efficiency Single Family **HVAC** Air Conditioner SEER 17 0027 Tier 3 per ton \$368.53 263.8941 68% Whole House Efficiency Single Family HVAC Air Conditioner SEER 17 - Early Retirement 0028 Tier 3 \$791.34 600.3591 68% per ton Whole House Efficiency Single Family **HVAC** Air Conditioner SEER 17 - Early Retirement (future) 0029 Tier 3 per ton \$422.84 263.8941 68% **HVAC** Tier 3 \$152.30 173.1924 72% Whole House Efficiency Single Family Heat Pump SEER 15 0030 per ton Heat Pump SEER 15 - Early Retirement 2,220.0717 72% Whole House Efficiency Single Family HVAC 0031 Tier 3 per ton \$796.86 Heat Pump SEER 15 - Early Retirement (future) \$644.56 Whole House Efficiency Single Family **HVAC** 0032 Tier 3 per ton 173.1924 72% Whole House Efficiency Heat Pump SEER 15 - Replace Electric Resistance Heat 4,719.5584 72% Single Family HVAC 0033 Tier 3 per ton \$796.86 HVAC Heat Pump SEER 16 0034 Tier 3 \$304.61 233.9430 72% Whole House Efficiency Single Family per ton HVAC Heat Pump SEER 16 - Early Retirement 0035 \$949.17 2,282.8214 72% Whole House Efficiency Single Family Tier 3 per ton Whole House Efficiency Single Family HVAC Heat Pump SEER 16 - Early Retirement (future) 0036 Tier 3 per ton \$644.56 233.9430 72% Whole House Efficiency Single Family HVAC Heat Pump SEER 16 - Replace Electric Resistance Heat 0037 Tier 3 per ton \$949.17 4,780.3091 72% **HVAC** Heat Pump SEER 17 Tier 3 \$456.91 320.5254 72% Whole House Efficiency Single Family 0038 per ton Single Family Whole House Efficiency **HVAC** Heat Pump SEER 17 - Early Retirement 0039 Tier 3 per ton \$1,101.47 2,369.4004 72% **HVAC** 0040 \$644.56 320.5254 72% Whole House Efficiency Single Family Heat Pump SEER 17 - Early Retirement (future) Tier 3 per ton Whole House Efficiency **HVAC** Heat Pump SEER 17 - Replace Electric Resistance Heat 0041 Tier 3 \$1.101.47 4.866.8920 72% Single Family per ton Income-Eligible Weatherization Screw In - CFLs 0042 Kits \$1.70 28.2901 0.030 10% Single Family Lighting per lamp Income-Eligible Weatherization Single Family Lighting Screw In - LEDs 0043 Kits per lamp \$15.00 30.9532 0.033 10% Income-Eligible Weatherization Single Family Hot Water Low Flow Faucet Aerator 0044 Kits \$2.80 65.4500 2% per unit Hot Water 0045 Kits \$9.00 74.0357 0.008 Income-Eligible Weatherization Single Family Pipe Insulated per unit Income-Eligible Weatherization Hot Water Low Flow Showerhead 0046 Kits \$15.00 272.9500 3% Single Family per unit Income-Eligible Weatherization Single Family 0047 Kits \$18.00 131.2958 0.015 Hot Water Water Heater Tank Wrap per unit 0048 \$15.00 73.7300 Income-Eligible Weatherization Single Family Electronics Smart Power Strip Kits per unit 80%

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Valid for Program Implementation Dates: Search using Drop-down Filters in Headers Early 2016 to

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			Measure Description	es					
Program	Segment End Use Measure Name		Measure Name	Coincident Peak Demand Savings (kW/unit)	Annual Operating Hours	Measure Life (Years)	Measure Definition	Measure Efficiency Value	
Income-Eligible Multi-Family	All	Lighting	Screw In - CFLs (Food Bank Distribution)	0.0029	938	5	CFL (watts)	14	
Home Lighting Rebate	All	Lighting	Screw In - LEDs	0.0031	938	20	LED (watts)	11.3	
Home Appliance Recycling Reba	All	Appliances	Dehumidifier Recycle	0.0350		4	Unit removed		
Home Appliance Recycling Reba	All	Appliances	Freezer - Recycle	0.1910		8	Unit removed		
Home Appliance Recycling Reba	All	Appliances	Refrigerator - Recycle	0.1900		8	Unit removed		
Home Appliance Recycling Reba	All	Appliances	Room A/C Recycle	0.1140		4	Unit removed		
Whole House Efficiency	Single Family	Lighting	Screw In - CFLs	0.0029	938	5	CFL (watts)	14	
Whole House Efficiency	Single Family	Lighting	Screw In - LEDs	0.0031	938	20	LED (watts)	11.3	
Whole House Efficiency	Single Family	Lighting	Screw In - LEDs	0.0034	938	20	LED (watts)	9.0	
Whole House Efficiency	Single Family	Hot Water	Low Flow Faucet Aerator	0.0101		9	Low Flow (GPM)	0.94	
Whole House Efficiency	Single Family	Hot Water	Pipe Insulated	0.0085	8,760	15	5 linear feet of insulation		
Whole House Efficiency	Single Family	Hot Water	Low Flow Showerhead	0.0244		10	Low Flow (GPM)	2.5	
'	Single Family	Hot Water	Water Heater Tank Wrap	0.0150	8,760	5	Water Heater Blanket/Tank Wrap		
Whole House Efficiency	Single Family	Electronics	Smart Power Strip	0.0052	,	5	Smart strip		
Whole House Efficiency	Single Family		Air Sealing	0.00005602		15	Efficient ACH	3.00	
Whole House Efficiency	Single Family	HVAC - Shell	Increased Ceiling Insulation	0.0003		25	Final R-value	38	
	Single Family	HVAC - Shell	Increased Wall Insulation	0.0004		25	Final R-value	5	
Whole House Efficiency	Single Family	HVAC - Shell	ENERGY STAR Windows	0.0008		25	Efficient U-factor	0.30	
•	Single Family	Hot Water	Heat Pump Water Heater	0.0837	2,533	13	Efficient EF	2.00	
-	Single Family	HVAC	Efficient ECM Fan	0.3403	,	10	ECM Fan		
Whole House Efficiency	Single Family	HVAC	Heat Pump Ductless Mini Split	0.8170		18	HP Ductless Mini Split		
Whole House Efficiency	Single Family	HVAC	Air Conditioner SEER 15	0.0890		18	SEER	15	
Whole House Efficiency	Single Family	HVAC	Air Conditioner SEER 15 - Early Retirement	0.2342		6	SEER	15	
Whole House Efficiency	Single Family	HVAC	Air Conditioner SEER 15 - Early Retirement (future)	0.0890		12	SEER	15	
Whole House Efficiency	Single Family	HVAC	Air Conditioner SEER 16	0.0890		18	SEER	16	
Whole House Efficiency	Single Family	HVAC	Air Conditioner SEER 16 - Early Retirement	0.2342		6	SEER	16	
	Single Family	HVAC	Air Conditioner SEER 16 - Early Retirement (future)	0.0890		12	SEER	16	
'	Single Family	HVAC	Air Conditioner SEER 17	0.1141		18	SEER	17	
Whole House Efficiency	Single Family	HVAC	Air Conditioner SEER 17 - Early Retirement	0.2593		6	SEER	17	
'	Single Family	HVAC	Air Conditioner SEER 17 - Early Retirement (future)	0.1141		12	SEER	17	
•	Single Family	HVAC	Heat Pump SEER 15	0.0542		18	SEER	15	
	Single Family	HVAC	Heat Pump SEER 15 - Early Retirement	0.8911		6	SEER	15	
	Single Family	HVAC	Heat Pump SEER 15 - Early Retirement (future)	0.0542		12	SEER	15	
Whole House Efficiency	Single Family	HVAC	Heat Pump SEER 15 - Replace Electric Resistance Heat	1.7652		6	SEER	15	
	Single Family	HVAC	Heat Pump SEER 16	0.0542		18	SEER	16	
Whole House Efficiency	Single Family	HVAC	Heat Pump SEER 16 - Early Retirement	0.8911		6	SEER	16	
Whole House Efficiency	Single Family	HVAC	Heat Pump SEER 16 - Early Retirement (future)	0.0542		12	SEER	16	
Whole House Efficiency	Single Family	HVAC	Heat Pump SEER 16 - Replace Electric Resistance Heat	1.7652		6	SEER	16	
Whole House Efficiency	Single Family	HVAC	Heat Pump SEER 17	0.0926		18	SEER	17	
Whole House Efficiency	Single Family	HVAC	Heat Pump SEER 17 - Early Retirement	0.9295		6	SEER	17	
Whole House Efficiency	Single Family	HVAC	Heat Pump SEER 17 - Early Retirement (future)	0.0926		12	SEER	17	
,	Single Family	HVAC	Heat Pump SEER 17 - Replace Electric Resistance Heat	1.8036		12	SEER	17	
Income-Eligible Weatherization		Lighting	Screw In - CFLs	0.0029	938	5	CFL (watts)	14	
Income-Eligible Weatherization	,	Lighting	Screw In - CLES	0.0023	938	20	LED (watts)	11.3	
Income-Eligible Weatherization		Hot Water	Low Flow Faucet Aerator	0.0101	338	9	Low Flow (GPM)	0.94	
	Single Family	Hot Water	Pipe Insulated	0.0101	8,760	15	5 linear feet of insulation	0.34	
Income-Eligible Weatherization	,	Hot Water	Low Flow Showerhead	0.0083	0,700	10	Low Flow (GPM)	2.5	
Income-Eligible Weatherization	,	Hot Water	Water Heater Tank Wrap	0.0244	8,760	5	Water Heater Blanket/Tank Wrap	2.3	
Income-Eligible Weatherization		Electronics	Smart Power Strip	0.0150	0,700	5	Smart strip	+	

ndicates default plan values that can be adjusted for unique installations.

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Valid for Program Implementation Dates: Early 2016 to

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Count: 162

unique installations.

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			Measure Description			Algorithms
Program	Segment	End Use	Measure Name	Baseline Definition	Baseline Efficiency Value	Electric Energy Savings Algorithm
Income-Eligible Multi-Family	All	Lighting	Screw In - CFLs (Food Bank Distribution)	EISA tier 1 compliant Halogen (watts)	43	=ROUND((R8-P8)/1000*M8*AC8,4)
Home Lighting Rebate	All	Lighting	Screw In - LEDs	EISA tier 1 compliant Halogen (watts)	43	=ROUND((R9-P9)/1000*M9*AC9,4)
Home Appliance Recycling Reba	All	Appliances	Dehumidifier Recycle	Unit operational		=ROUND(139,4)
Home Appliance Recycling Reba	All	Appliances	Freezer - Recycle	Unit operational		=ROUND(1201,4)
Home Appliance Recycling Reba	All	Appliances	Refrigerator - Recycle	Unit operational		=ROUND(1190,4)
Home Appliance Recycling Reba	All	Appliances	Room A/C Recycle	Unit operational		=ROUND(121,4)
Whole House Efficiency	Single Family	Lighting	Screw In - CFLs	EISA tier 1 compliant Halogen (watts)	43	=ROUND((R14-P14)/1000*M14*AC14,4)
Whole House Efficiency	Single Family	Lighting	Screw In - LEDs	EISA tier 1 compliant Halogen (watts)	43	=ROUND((R15-P15)/1000*M15*AC15,4)
Whole House Efficiency	Single Family	Lighting	Screw In - LEDs	EISA tier 1 compliant Halogen (watts)	43	=ROUND((R16-P16)/1000*M16*AC16,4)
Whole House Efficiency	Single Family	Hot Water	Low Flow Faucet Aerator	Standard (GPM)	1.39	=ROUND((R17-P17)*AC17*(AE17*365.25)*AG17,4)
Whole House Efficiency	Single Family	Hot Water	Pipe Insulated	none		=ROUND(74.0356963418427,4)
Whole House Efficiency	Single Family	Hot Water	Low Flow Showerhead	Standard (GPM)	4	=ROUND((R19-P19)*AC19*(AE19*365.25)*AG19,4)
Whole House Efficiency	Single Family	Hot Water	Water Heater Tank Wrap	No Blanket		=ROUND(131.295784945569,4)
Whole House Efficiency	Single Family	Electronics	Smart Power Strip	Standard outlet strip		=ROUND(73.73,4)
Whole House Efficiency	Single Family	HVAC - Shell	Air Sealing	Baseline ACH	6.00	=ROUND((R22-P22)*(AA22*AC22 + AB22*AE22),4)
Whole House Efficiency	Single Family	HVAC - Shell	Increased Ceiling Insulation	Previous R-value	5	=ROUND((1/R23-1/P23)*(AA23*AC23 + AB23*AE23),4)
Whole House Efficiency	Single Family	HVAC - Shell	Increased Wall Insulation	Previous R-value	2	=ROUND((1/R24-1/P24)*(AA24*AC24 + AB24*AE24),4)
Whole House Efficiency	Single Family	HVAC - Shell	ENERGY STAR Windows	Baseline U-factor	0.90	=ROUND((R25-P25)*(AA25*AC25 + AB25*AE25),4)
Whole House Efficiency		Hot Water	Heat Pump Water Heater	Baseline EF	0.95	=ROUND(((1/R26-1/P26)*AE26*AC26*365.25),4)
Whole House Efficiency	Single Family	HVAC	Efficient ECM Fan	Std Fan		=ROUND(608.1,4)
Whole House Efficiency	Single Family	HVAC	Heat Pump Ductless Mini Split	Electric heat & Room A/C		=ROUND(1314.51428571429,4)
Whole House Efficiency	Single Family	HVAC	Air Conditioner SEER 15	SEER	13	=ROUND((1/R29-1/P29)*AA29*AC29/AE29,4)
Whole House Efficiency		HVAC	Air Conditioner SEER 15 - Early Retirement	SEER	10	=ROUND((1/R30-1/P30)*AA30*AC30/AE30,4)
Whole House Efficiency	Single Family	HVAC	Air Conditioner SEER 15 - Early Retirement (future)	SEER	13	=ROUND((1/R31-1/P31)*AA31*AC31/AE31,4)
Whole House Efficiency	Single Family	HVAC	Air Conditioner SEER 16	SEER	13	=ROUND((1/R32-1/P32)*AA32*AC32/AE32,4)
Whole House Efficiency		HVAC	Air Conditioner SEER 16 - Early Retirement	SEER	10	=ROUND((1/R33-1/P33)*AA33*AC33/AE33,4)
Whole House Efficiency	Single Family	HVAC	Air Conditioner SEER 16 - Early Retirement (future)	SEER	13	=ROUND((1/R34-1/P34)*AA34*AC34/AE34,4)
Whole House Efficiency		HVAC	Air Conditioner SEER 17	SEER	13	=ROUND((1/R35-1/P35)*AA35*AC35/AE35,4)
Whole House Efficiency	Single Family	HVAC	Air Conditioner SEER 17 - Early Retirement	SEER	10	=ROUND((1/R36-1/P36)*AA36*AC36/AE36,4)
Whole House Efficiency		HVAC	Air Conditioner SEER 17 - Early Retirement (future)	SEER	13	=ROUND((1/R37-1/P37)*AA37*AC37/AE37,4)
Whole House Efficiency	<u> </u>	HVAC	Heat Pump SEER 15	SEER	14	ROUND(((1/R38-1/P38)*AA38 + AG38*AB38)*AC38/AE38,4
Whole House Efficiency		HVAC	Heat Pump SEER 15 - Early Retirement	SEER	9.12	ROUND(((1/R39-1/P39)*AA39 + AG39*AB39)*AC39/AE39,4
Whole House Efficiency		HVAC	Heat Pump SEER 15 - Early Retirement (future)	SEER	14	ROUND(((1/R40-1/P40)*AA40 + AG40*AB40)*AC40/AE40,4
Whole House Efficiency		HVAC	Heat Pump SEER 15 - Replace Electric Resistance Heat	SEER	10	ROUND(((1/R41-1/P41)*AA41 + AG41*AB41)*AC41/AE41,4
		HVAC	Heat Pump SEER 16	SEER	14	ROUND(((1/R42-1/P42)*AA42 + AG42*AB42)*AC42/AE42,4
Whole House Efficiency	Single Family	HVAC	Heat Pump SEER 16 - Early Retirement	SEER	9.12	ROUND(((1/R43-1/P43)*AA43 + AG43*AB43)*AC43/AE43,4
Whole House Efficiency		HVAC	Heat Pump SEER 16 - Early Retirement (future)	SEER	14	ROUND(((1/R44-1/P44)*AA44 + AG44*AB44)*AC44/AE44,4
Whole House Efficiency	,	HVAC	Heat Pump SEER 16 - Replace Electric Resistance Heat	SEER	10	ROUND(((1/R45-1/P45)*AA45 + AG45*AB45)*AC45/AE45,4
Whole House Efficiency		HVAC	Heat Pump SEER 17	SEER	14	ROUND(((1/R46-1/P46)*AA46 + AG46*AB46)*AC46/AE46,4
Whole House Efficiency	,	HVAC	Heat Pump SEER 17 - Early Retirement	SEER	9.12	ROUND(((1/R47-1/P47)*AA47 + AG47*AB47)*AC47/AE47,4
Whole House Efficiency		HVAC	Heat Pump SEER 17 - Early Retirement (future)	SEER	14	ROUND(((1/R48-1/P48)*AA48 + AG48*AB48)*AC48/AE48,4
Whole House Efficiency	Single Family	HVAC	Heat Pump SEER 17 - Replace Electric Resistance Heat	SEER	10	ROUND(((1/R49-1/P49)*AA49 + AG49*AB49)*AC49/AE49,4
Income-Eligible Weatherization		Lighting	Screw In - CFLs	EISA tier 1 compliant Halogen (watts)	43	=ROUND((R50-P50)/1000*M50*AC50,4)
Income-Eligible Weatherization		Lighting	Screw In - LEDs	EISA tier 1 compliant Halogen (watts)	43	=ROUND((R51-P51)/1000*M51*AC51,4)
Income-Eligible Weatherization		Hot Water	Low Flow Faucet Aerator	Standard (GPM)	1.39	=ROUND((R52-P52)*AC52*(AE52*365.25)*AG52,4)
Income-Eligible Weatherization		Hot Water	Pipe Insulated	none		=ROUND(74.0356963418427,4)
Income-Eligible Weatherization		Hot Water	Low Flow Showerhead	Standard (GPM)	4	=ROUND((R54-P54)*AC54*(AE54*365.25)*AG54,4)
Income-Eligible Weatherization	<u> </u>	Hot Water	Water Heater Tank Wrap	No Blanket	_	=ROUND(131.295784945569,4)
Income-Eligible Weatherization		Electronics	Smart Power Strip	Standard outlet strip	+	=ROUND(73.73,4)

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Measure Description **Net Electric Energy** Net to Gross **End Use Incentive Definition** Savings (Annual **Program** Segment **Measure Name** Ratio (NTG) kWh/unit) ncome-Eligible Multi-Family Lighting Screw In - CFLs (Food Bank Distribution) Distributed free to customers at food banks 100% 28.29 30.95 Home Lighting Rebate ΑII Lighting Screw In - LEDs per unit 100% 139.00 ome Appliance Recycling Rel **Appliances** Dehumidifier Recycle n/a 1009 Home Appliance Recycling Reb **Appliances** Freezer - Recycle per unit 1009 1201.00 ome Appliance Recycling Re **Appliances** Refrigerator - Recycle per unit 100 1190.00 Iome Appliance Recycling Re **Appliances** Room A/C Recycle 100 121.00 Whole House Efficiency Single Family Lighting Screw In - CFLs 100% 28.29 Free to customer Whole House Efficiency Single Family Lighting Screw In - LEDs Free to customer 1009 30.95 100% 33.1677 Whole House Efficiency Screw In - LEDs Single Family Lighting Free to customer Whole House Efficiency Single Family Hot Water Low Flow Faucet Aerator Free to customer 100% 65.45 Whole House Efficiency Single Family Hot Water Pipe Insulated 100% 74.04 Free to customer Whole House Efficiency Single Family Hot Water Low Flow Showerhead Free to customer 100% 272.95 Single Family Whole House Efficiency Hot Water Water Heater Tank Wrap Free to customer 100% 131.30 Whole House Efficiency Single Family Electronics Smart Power Strip Free to customer 100% 73.73 HVAC - Shell Tiered, see Program Information 100% 0.23 Whole House Efficiency Single Family Air Sealing 100% 0.52 Whole House Efficiency Single Family HVAC - Shell Increased Ceiling Insulation Tiered, see Program Information Tiered, see Program Information Whole House Efficiency HVAC - Shell Increased Wall Insulation 100% 0.72 Single Family 100% Whole House Efficiency Single Family HVAC - Shell **ENERGY STAR Windows** Tiered, see Program Information 2.05 Whole House Efficiency Single Family Hot Water Heat Pump Water Heater 100% 1766.00 Tiered, see Program Information Whole House Efficiency Single Family **HVAC** Efficient ECM Fan Tiered, see Program Information 100% 608.10 **HVAC** 100% 1314.51 Whole House Efficiency Single Family Heat Pump Ductless Mini Split Tiered, see Program Information Whole House Efficiency Single Family HVAC Air Conditioner SEER 15 Tiered, see Program Information 100% 149.54 Whole House Efficiency Single Family **HVAC** Air Conditioner SEER 15 - Early Retirement Tiered, see Program Information 100% 486.01 149.54 Whole House Efficiency Single Family HVAC Air Conditioner SEER 15 - Early Retirement (future) Tiered, see Program Information 100% HVAC Air Conditioner SEER 16 100% 210.29 Whole House Efficiency Single Family Tiered, see Program Information Single Family HVAC 100% 546.76 Whole House Efficiency Air Conditioner SEER 16 - Early Retirement Tiered, see Program Information Whole House Efficiency Single Family HVAC Air Conditioner SEER 16 - Early Retirement (future) Tiered, see Program Information 100% 210.29 Whole House Efficiency Single Family HVAC Air Conditioner SEER 17 Tiered, see Program Information 100% 263.89 Whole House Efficiency HVAC Air Conditioner SEER 17 - Early Retirement Tiered, see Program Information 100% 600.36 Single Family Whole House Efficiency Single Family **HVAC** Air Conditioner SEER 17 - Early Retirement (future) Tiered, see Program Information 100% 263.89 HVAC 100% 173.19 Whole House Efficiency Single Family Heat Pump SEER 15 Tiered, see Program Information Heat Pump SEER 15 - Early Retirement 2220.07 Whole House Efficiency Single Family HVAC Tiered, see Program Information 100% Heat Pump SEER 15 - Early Retirement (future) 100% 173.19 Whole House Efficiency Single Family **HVAC** Tiered, see Program Information Heat Pump SEER 15 - Replace Electric Resistance Heat 100% 4719.56 Whole House Efficiency Single Family HVAC Tiered, see Program Information Whole House Efficiency HVAC Heat Pump SEER 16 Tiered, see Program Information 100% 233.94 Single Family HVAC Heat Pump SEER 16 - Early Retirement 100% 2282.82 Whole House Efficiency Single Family Tiered, see Program Information Whole House Efficiency Single Family HVAC Heat Pump SEER 16 - Early Retirement (future) Tiered, see Program Information 100% 233.94 Heat Pump SEER 16 - Replace Electric Resistance Heat Whole House Efficiency Single Family **HVAC** Tiered, see Program Information 100% 4780.31 **HVAC** Heat Pump SEER 17 100% 320.53 Whole House Efficiency Single Family Tiered, see Program Information Single Family Whole House Efficiency **HVAC** Heat Pump SEER 17 - Early Retirement Tiered, see Program Information 100% 2369.40 HVAC 100% 320.53 Whole House Efficiency Single Family Heat Pump SEER 17 - Early Retirement (future) Tiered, see Program Information Whole House Efficiency HVAC Heat Pump SEER 17 - Replace Electric Resistance Heat Tiered, see Program Information 100% 4866.89 Single Family ncome-Eligible Weatherization Single Family Screw In - CFLs 100% 28.29 Lighting 100% covered by program Income-Eligible Weatherization Single Family Lighting Screw In - LEDs 100% covered by program 100% 30.95 Income-Eligible Weatherizatior Single Family Hot Water Low Flow Faucet Aerator 100% covered by program 100% 65.45 Hot Water 100% 74.04 Income-Eligible Weatherization Single Family Pipe Insulated 100% covered by program Income-Eligible Weatherization Hot Water Low Flow Showerhead 100% 272.95 Single Family 100% covered by program 131.30 Income-Eligible Weatherization Single Family 100% Hot Water Water Heater Tank Wrap 100% covered by program 100% 73.73 ncome-Eligible Weatherization Single Family Electronics Smart Power Strip 100% covered by program

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 Valid for Program Implementation Dates:
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 Link to CDD
 Link to HDD

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Count: 162

Measure Description Date of Data Effective Start | Effective End **Cooling Degree Heating Degree End Use Data Source Program** Segment **Measure Name** Revision Days (CDD) Days (HDD) Income-Eligible Multi-Family Lighting Screw In - CFLs (Food Bank Distribution) AEG KCP&L Program Plan 2016-2018 7/29/2015 4/1/2016 AEG KCP&L Program Plan 2016-2018 7/29/2015 4/1/2016 Home Lighting Rebate ΑII Lighting Screw In - LEDs Navigant 2013 GMO EM&V Report 7/29/2015 4/1/2016 4/1/2016 ome Appliance Recycling Rel **Appliances** Dehumidifier Recycle Home Appliance Recycling Reb Appliances Freezer - Recycle Navigant 2013 GMO EM&V Report 7/29/2015 4/1/2016 4/1/2016 ome Appliance Recycling Rel **Appliances** Refrigerator - Recycle Navigant 2013 GMO EM&V Report 7/29/2015 4/1/2016 4/1/2016 Iome Appliance Recycling Rel **Appliances** Room A/C Recycle Navigant 2013 GMO EM&V Report 7/29/2015 4/1/2016 4/1/2016 Whole House Efficiency Single Family Lighting Screw In - CFLs AEG KCP&L Program Plan 2016-2018 7/29/2015 4/1/2016 AEG KCP&L Program Plan 2016-2018 Whole House Efficiency Single Family Lighting Screw In - LEDs 7/29/2015 4/1/2016 3/31/2017 Screw In - LEDs 2/1/2017 Whole House Efficiency AEG KCP&L Program Plan 2016-2019 4/1/2017 Single Family Lighting Whole House Efficiency Single Family Hot Water Low Flow Faucet Aerator AEG KCP&L Program Plan 2016-2018 7/29/2015 4/1/2016 Whole House Efficiency Single Family Hot Water Pipe Insulated AEG KCP&L Program Plan 2016-2018 7/29/2015 4/1/2016 Whole House Efficiency Single Family Hot Water Low Flow Showerhead AEG KCP&L Program Plan 2016-2018 7/29/2015 4/1/2016 Whole House Efficiency Single Family Hot Water Water Heater Tank Wrap AEG KCP&L Program Plan 2016-2018 7/29/2015 4/1/2016 Whole House Efficiency Single Family Electronics Smart Power Strip AEG KCP&L Program Plan 2016-2018 7/29/2015 4/1/2016 HVAC - Shell AEG KCP&L Program Plan 2016-2018 7/29/2015 4/1/2016 1325 5249 Whole House Efficiency Single Family Air Sealing Whole House Efficiency 1325 5249 Single Family HVAC - Shell Increased Ceiling Insulation AEG KCP&L Program Plan 2016-2018 7/29/2015 4/1/2016 Whole House Efficiency Single Family HVAC - Shell Increased Wall Insulation AEG KCP&L Program Plan 2016-2018 7/29/2015 4/1/2016 1325 5249 4/1/2016 Whole House Efficiency Single Family HVAC - Shell **ENERGY STAR Windows** AEG KCP&L Program Plan 2016-2018 7/29/2015 1325 5249 Whole House Efficiency Single Family Hot Water Heat Pump Water Heater AEG KCP&L Program Plan 2016-2018 7/29/2015 4/1/2016 Whole House Efficiency Single Family **HVAC** Efficient ECM Fan AEG KCP&L Program Plan 2016-2018 7/29/2015 4/1/2016 1325 5249 **HVAC** Heat Pump Ductless Mini Split AEG KCP&L Program Plan 2016-2018 7/29/2015 4/1/2016 1325 5249 Whole House Efficiency Single Family 5249 Whole House Efficiency Single Family **HVAC** Air Conditioner SEER 15 AEG KCP&L Program Plan 2016-2018 7/29/2015 4/1/2016 1325 7/29/2015 1325 5249 Whole House Efficiency Single Family **HVAC** Air Conditioner SEER 15 - Early Retirement AEG KCP&L Program Plan 2016-2018 4/1/2016 HVAC 7/29/2015 Whole House Efficiency Single Family Air Conditioner SEER 15 - Early Retirement (future) AEG KCP&L Program Plan 2016-2018 4/1/2016 1325 5249 HVAC Air Conditioner SEER 16 AEG KCP&L Program Plan 2016-2018 7/29/2015 4/1/2016 1325 5249 Whole House Efficiency Single Family Single Family HVAC AEG KCP&L Program Plan 2016-2018 7/29/2015 4/1/2016 1325 5249 Whole House Efficiency Air Conditioner SEER 16 - Early Retirement Whole House Efficiency Single Family HVAC Air Conditioner SEER 16 - Early Retirement (future) AEG KCP&L Program Plan 2016-2018 7/29/2015 4/1/2016 1325 5249 Whole House Efficiency Single Family **HVAC** Air Conditioner SEER 17 AEG KCP&L Program Plan 2016-2018 7/29/2015 4/1/2016 1325 5249 Whole House Efficiency Single Family **HVAC** Air Conditioner SEER 17 - Early Retirement AEG KCP&L Program Plan 2016-2018 7/29/2015 4/1/2016 1325 5249 Air Conditioner SEER 17 - Early Retirement (future) Whole House Efficiency Single Family **HVAC** AEG KCP&L Program Plan 2016-2018 7/29/2015 4/1/2016 1325 5249 1325 HVAC Heat Pump SEER 15 AEG KCP&L Program Plan 2016-2018 7/29/2015 4/1/2016 5249 Whole House Efficiency Single Family Heat Pump SEER 15 - Early Retirement 4/1/2016 1325 5249 Whole House Efficiency Single Family HVAC AEG KCP&L Program Plan 2016-2018 7/29/2015 Heat Pump SEER 15 - Early Retirement (future) AEG KCP&L Program Plan 2016-2018 7/29/2015 4/1/2016 1325 5249 Whole House Efficiency Single Family HVAC HVAC Heat Pump SEER 15 - Replace Electric Resistance Heat AEG KCP&L Program Plan 2016-2018 7/29/2015 4/1/2016 1325 5249 Whole House Efficiency Single Family Whole House Efficiency HVAC Heat Pump SEER 16 AEG KCP&L Program Plan 2016-2018 7/29/2015 4/1/2016 1325 5249 Single Family HVAC Heat Pump SEER 16 - Early Retirement AEG KCP&L Program Plan 2016-2018 7/29/2015 4/1/2016 1325 5249 Whole House Efficiency Single Family Whole House Efficiency Single Family HVAC Heat Pump SEER 16 - Early Retirement (future) AEG KCP&L Program Plan 2016-2018 7/29/2015 4/1/2016 1325 5249 Heat Pump SEER 16 - Replace Electric Resistance Heat Whole House Efficiency Single Family **HVAC** AEG KCP&L Program Plan 2016-2018 7/29/2015 4/1/2016 1325 5249 **HVAC** Heat Pump SEER 17 AEG KCP&L Program Plan 2016-2018 7/29/2015 4/1/2016 1325 5249 Whole House Efficiency Single Family Single Family 1325 Whole House Efficiency **HVAC** Heat Pump SEER 17 - Early Retirement AEG KCP&L Program Plan 2016-2018 7/29/2015 4/1/2016 5249 **HVAC** AEG KCP&L Program Plan 2016-2018 7/29/2015 4/1/2016 1325 5249 Whole House Efficiency Single Family Heat Pump SEER 17 - Early Retirement (future) Whole House Efficiency HVAC Heat Pump SEER 17 - Replace Electric Resistance Heat AEG KCP&L Program Plan 2016-2018 7/29/2015 4/1/2016 1325 5249 Single Family Income-Eligible Weatherization Single Family Screw In - CFLs AEG KCP&L Program Plan 2016-2018 7/29/2015 4/1/2016 Lighting Income-Eligible Weatherization Single Family Lighting Screw In - LEDs AEG KCP&L Program Plan 2016-2018 7/29/2015 4/1/2016 Income-Eligible Weatherization Single Family Hot Water Low Flow Faucet Aerator AEG KCP&L Program Plan 2016-2018 7/29/2015 4/1/2016 Hot Water Pipe Insulated AEG KCP&L Program Plan 2016-2018 7/29/2015 4/1/2016 Income-Eligible Weatherization Single Family Income-Eligible Weatherization Hot Water Low Flow Showerhead AEG KCP&L Program Plan 2016-2018 7/29/2015 4/1/2016 Single Family Income-Eligible Weatherization Single Family Hot Water Water Heater Tank Wrap AEG KCP&L Program Plan 2016-2018 7/29/2015 4/1/2016 AEG KCP&L Program Plan 2016-2018 7/29/2015 4/1/2016 Income-Eligible Weatherization Single Family Electronics Smart Power Strip

Published 3/4/2016

Income-Eligible Weatherization Single Family

Electronics

Smart Power Strip

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Count: 162 Measure Description porting Information **End Use** Quantity1 Quantity3 **Program** Segment **Measure Name** Quantity1 Description Quantity2 Quantity2 Description Income-Eligible Multi-Family Lighting Screw In - CFLs (Food Bank Distribution) 1.04 Waste Heat Factor Home Lighting Rebate ΑII Lighting Screw In - LEDs 1.04 Waste Heat Factor ome Appliance Recycling Rel **Appliances** Dehumidifier Recycle Home Appliance Recycling Reb **Appliances** Freezer - Recycle Refrigerator - Recycle ome Appliance Recycling Reb **Appliances** Iome Appliance Recycling Rel **Appliances** Room A/C Recycle 1.04 Waste Heat Factor Whole House Efficiency Single Family Lighting Screw In - CFLs Whole House Efficiency Single Family Lighting Screw In - LEDs 1.04 Waste Heat Factor Whole House Efficiency Screw In - LEDs 1.04 Waste Heat Factor Single Family Lighting Whole House Efficiency Single Family Hot Water Low Flow Faucet Aerator 0.0919 kWh per gallon hot water Minutes per person per day 1.44 Whole House Efficiency Single Family Hot Water Pipe Insulated Whole House Efficiency Single Family Hot Water Low Flow Showerhead 0.0919 kWh per gallon hot water 3.75 Minutes per person per day 1.44 Single Family Whole House Efficiency Hot Water Water Heater Tank Wrap Whole House Efficiency Single Family Electronics Smart Power Strip HVAC - Shell 0.00001 Cooling Coefficient Heating Coefficient Whole House Efficiency Single Family Air Sealing Whole House Efficiency Single Family HVAC - Shell Increased Ceiling Insulation 0.00046 Cooling Coefficient 0.0004 **Heating Coefficient** Whole House Efficiency HVAC - Shell Increased Wall Insulation 0.00037 Cooling Coefficient 0.00037 **Heating Coefficient** Single Family Whole House Efficiency Single Family HVAC - Shell **ENERGY STAR Windows** 0.00052 Cooling Coefficient 0.0005 **Heating Coefficient** Whole House Efficiency Single Family Hot Water Heat Pump Water Heater 50 gallons used per day 0.175 Water Heating Coefficient Whole House Efficiency Single Family **HVAC** Efficient ECM Fan **HVAC** Heat Pump Ductless Mini Split Whole House Efficiency Single Family Whole House Efficiency Single Family **HVAC** Air Conditioner SEER 15 12,000 Btu/hr 1,091 Coefficient Whole House Efficiency Single Family **HVAC** Air Conditioner SEER 15 - Early Retirement 12,000 Btu/hr 1,091 Coefficient Whole House Efficiency Single Family HVAC Air Conditioner SEER 15 - Early Retirement (future) 12,000 Btu/hr 1,091 Coefficient HVAC Air Conditioner SEER 16 12.000 Btu/hr 1.091 Coefficient Whole House Efficiency Single Family Single Family HVAC Whole House Efficiency Air Conditioner SEER 16 - Early Retirement 12,000 Btu/hr 1,091 Coefficient Whole House Efficiency Single Family HVAC Air Conditioner SEER 16 - Early Retirement (future) 12.000 Btu/hr 1.091 Coefficient Whole House Efficiency Single Family HVAC Air Conditioner SEER 17 12,000 Btu/hr 1,091 Coefficient Whole House Efficiency **HVAC** Air Conditioner SEER 17 - Early Retirement 12.000 Btu/hr 1.091 Coefficient Single Family Air Conditioner SEER 17 - Early Retirement (future) Whole House Efficiency Single Family **HVAC** 12,000 Btu/hr 1,091 Coefficient HVAC Heat Pump SEER 15 12,000 Btu/hr 1,091 Coefficient Whole House Efficiency Single Family 0.001796471 Heat Pump SEER 15 - Early Retirement 0.027586522 Whole House Efficiency Single Family **HVAC** 12,000 Btu/hr 1,091 Coefficient Heat Pump SEER 15 - Early Retirement (future) 12,000 Btu/hr Whole House Efficiency Single Family **HVAC** 1,091 Coefficient 0.001796471 HVAC Heat Pump SEER 15 - Replace Electric Resistance Heat 1,091 Coefficient 0.073296351 Whole House Efficiency Single Family 12,000 Btu/hr Whole House Efficiency HVAC Heat Pump SEER 16 12.000 Btu/hr 1.091 Coefficient 0.001796471 Single Family HVAC Heat Pump SEER 16 - Early Retirement 12,000 0.027621132 Whole House Efficiency Single Family Btu/hr 1,091 Coefficient Heat Pump SEER 16 - Early Retirement (future) Whole House Efficiency Single Family HVAC 12,000 Btu/hr 1,091 Coefficient 0.001796471 Heat Pump SEER 16 - Replace Electric Resistance Heat Whole House Efficiency Single Family **HVAC** 12,000 Btu/hr 1,091 Coefficient 0.073296351 **HVAC** Heat Pump SEER 17 12,000 Btu/hr Coefficient 0.002367442 Whole House Efficiency Single Family 1,091 Single Family Whole House Efficiency **HVAC** Heat Pump SEER 17 - Early Retirement 12,000 Btu/hr 1,091 Coefficient 0.028192044 **HVAC** 12,000 Btu/hr 1,091 Coefficient 0.002367442 Whole House Efficiency Single Family Heat Pump SEER 17 - Early Retirement (future) Whole House Efficiency HVAC Heat Pump SEER 17 - Replace Electric Resistance Heat 12.000 Btu/hr 1.091 Coefficient 0.073867331 Single Family Income-Eligible Weatherization Single Family Screw In - CFLs 1.04 Waste Heat Factor Lighting Income-Eligible Weatherization Single Family Lighting Screw In - LEDs 1.04 Waste Heat Factor Income-Eligible Weatherization Single Family Hot Water Low Flow Faucet Aerator 0.0919 kWh per gallon hot water Minutes per person per day 1.44 Hot Water Income-Eligible Weatherization Single Family Pipe Insulated Income-Eligible Weatherization Hot Water Low Flow Showerhead 0.0919 kWh per gallon hot water 3.75 Minutes per person per day 1.44 Single Family Income-Eligible Weatherization Single Family Hot Water Water Heater Tank Wrap

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	I		Measure Description	
Program	Segment	End Use	Measure Name	Quantity3 Description
ncome-Eligible Multi-Family	All	Lighting	Screw In - CFLs (Food Bank Distribution)	
Home Lighting Rebate	All	Lighting	Screw In - LEDs	
Home Appliance Recycling Reba	All	Appliances	Dehumidifier Recycle	
Home Appliance Recycling Reba	All	Appliances	Freezer - Recycle	
Home Appliance Recycling Reba	All	Appliances	Refrigerator - Recycle	
Iome Appliance Recycling Reba	All	Appliances	Room A/C Recycle	
Vhole House Efficiency	Single Family	Lighting	Screw In - CFLs	
Vhole House Efficiency	Single Family	Lighting	Screw In - LEDs	
Vhole House Efficiency	Single Family	Lighting	Screw In - LEDs	
Vhole House Efficiency	Single Family	Hot Water	Low Flow Faucet Aerator	Persons per household
Vhole House Efficiency	Single Family	Hot Water	Pipe Insulated	
Vhole House Efficiency	Single Family	Hot Water	Low Flow Showerhead	Persons per household
Vhole House Efficiency	Single Family	Hot Water	Water Heater Tank Wrap	
Vhole House Efficiency	Single Family	Electronics	Smart Power Strip	
Vhole House Efficiency	Single Family	HVAC - Shell	Air Sealing	
Vhole House Efficiency	Single Family	HVAC - Shell	Increased Ceiling Insulation	
Whole House Efficiency	Single Family	HVAC - Shell	Increased Wall Insulation	
Whole House Efficiency	Single Family	HVAC - Shell	ENERGY STAR Windows	
Whole House Efficiency	Single Family	Hot Water	Heat Pump Water Heater	
Vhole House Efficiency	Single Family	HVAC	Efficient ECM Fan	
Whole House Efficiency	Single Family	HVAC	Heat Pump Ductless Mini Split	
Whole House Efficiency	Single Family	HVAC	Air Conditioner SEER 15	
Whole House Efficiency	Single Family	HVAC	Air Conditioner SEER 15 - Early Retirement	
Whole House Efficiency	Single Family	HVAC	Air Conditioner SEER 15 - Early Retirement (future)	
Whole House Efficiency	Single Family	HVAC	Air Conditioner SEER 16	
Whole House Efficiency	Single Family	HVAC	Air Conditioner SEER 16 - Early Retirement	
Whole House Efficiency	Single Family	HVAC	Air Conditioner SEER 16 - Early Retirement (future)	
Whole House Efficiency	Single Family	HVAC	Air Conditioner SEER 17	
Whole House Efficiency	Single Family	HVAC	Air Conditioner SEER 17 - Early Retirement	
Whole House Efficiency	Single Family	HVAC	Air Conditioner SEER 17 - Early Retirement (future)	
Whole House Efficiency	Single Family	HVAC	Heat Pump SEER 15	HSPF improvement factor
Whole House Efficiency	Single Family	HVAC	Heat Pump SEER 15 - Early Retirement	HSPF improvement factor
Vhole House Efficiency	Single Family	HVAC	Heat Pump SEER 15 - Early Retirement (future)	HSPF improvement factor
Whole House Efficiency	Single Family	HVAC	Heat Pump SEER 15 - Replace Electric Resistance Heat	HSPF improvement factor
Vhole House Efficiency	Single Family	HVAC	Heat Pump SEER 16	HSPF improvement factor
Vhole House Efficiency	Single Family	HVAC	Heat Pump SEER 16 - Early Retirement	HSPF improvement factor
Vhole House Efficiency	Single Family	HVAC	Heat Pump SEER 16 - Early Retirement (future)	HSPF improvement factor
Vhole House Efficiency	Single Family	HVAC	Heat Pump SEER 16 - Replace Electric Resistance Heat	HSPF improvement factor
Vhole House Efficiency	Single Family	HVAC	Heat Pump SEER 17	HSPF improvement factor
Vhole House Efficiency	Single Family	HVAC	Heat Pump SEER 17 - Early Retirement	HSPF improvement factor
Vhole House Efficiency	Single Family	HVAC	Heat Pump SEER 17 - Early Retirement (future)	HSPF improvement factor
Vhole House Efficiency	Single Family	HVAC	Heat Pump SEER 17 - Replace Electric Resistance Heat	HSPF improvement factor
ncome-Eligible Weatherization		Lighting	Screw In - CFLs	·
ncome-Eligible Weatherization		Lighting	Screw In - LEDs	
ncome-Eligible Weatherization		Hot Water	Low Flow Faucet Aerator	Persons per household
ncome-Eligible Weatherization	. ,	Hot Water	Pipe Insulated	
ncome-Eligible Weatherization		Hot Water	Low Flow Showerhead	Persons per household
ncome-Eligible Weatherization		Hot Water	Water Heater Tank Wrap	
ncome-Eligible Weatherization		Electronics	Smart Power Strip	

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Count: 162 Column Equation: see column R = H / L Measure Description Gross Measure Valu Incremental **Electric Energy** Nameplate Peak **Primary End Use Unit Definition Measure Cost** Savings (Annual **Demand Savings** Coincidence Program Segment **Measure Name** Notes Key (\$/Unit) kWh/unit) (kW/unit) Factor Income-Eligible Weatherization Single Family HVAC - Shell Increased Ceiling Insulation 0049 Weatherization per sq ft (ceiling a \$0.76 0.5200 \$720.00 210.4900 Income-Eligible Weatherization Single Family HVAC - Shell Increased Duct Insulation 0050 Weatherization per home HVAC - Shell Increased Wall Insulation 0051 0.7200 ncome-Eligible Weatherization Single Family Weatherization per sq ft (wall area \$1.32 Income-Eligible Multi-Family Multi-Family Lighting Screw In - CFLs 0052 Kits per lamp \$1.70 28.2901 0.030 10% ncome-Eligible Multi-Family Multi-Family Lighting Screw In - LEDs 0053 per lamp \$15. 30.953 109 Income-Eligible Multi-Family Multi-Family Lighting Screw In - LEDs 0053.1 Kits per lamp \$15.00 33.1677 0.035 10% Low Flow Faucet Aerator 42.2900 Income-Eligible Multi-Family Multi-Family Hot Water 0054 Kits \$2.80 1% per unit Income-Eligible Multi-Family Multi-Family Hot Water Pipe Insulated 0055 Kits per unit \$2.80 74.0357 0.008 Low Flow Showerhead \$15.00 235.9900 ncome-Eligible Multi-Family Hot Water 0056 Kits 3% Multi-Family per unit Income-Eligible Multi-Family Multi-Family Hot Water Water Heater Tank Wrap 0057 Kits per unit \$18.00 131.2958 0.015 Income-Eligible Multi-Family Multi-Family Electronics Smart Power Strip 0058 Kits \$15.00 73.7300 80% per unit LED Exit Sign Income-Eligible Multi-Family Multi-Family Lighting 0059 Common Area per unit \$30.00 78.8400 0.009 100% High Bay Fluorescent Fixture w/ HE Electronic Ballast (T5 >4 Income-Eligible Multi-Family Multi-Family Lighting lamps) 0060 Common Area per fixture \$100.00 701.0069 0.216 66% Income-Eligible Multi-Family Multi-Family Low Wattage T8 Lamp 0061 \$2.00 26.1245 0.008 66% Lighting Common Area per lamp \$35.00 Income-Eligible Multi-Family Multi-Family Lighting LED Flood Light (<15W) 0062 Common Area per lamp 210.8290 0.043 0% Income-Eligible Multi-Family Multi-Family Screw In - CFLs 0063 Common Area \$3.33 204.6418 0.063 10% Lighting per lamp ncome-Eligible Multi-Family Multi-Family Lighting Screw In - LEDs 0064 Common Area er lamp \$25. 217.704 0.06 109 Income-Eligible Multi-Family Multi-Family Lighting Screw In - LEDs 0064.1 Common Area \$25.08 248.1826 0.076 10% per lamp Residential Programmable Ther All HVAC Advanced Programmable Communicating Thermostat 0065 per unit \$350.00 462.0000 HVAC Advanced Programmable Communicating Thermostat 0066 \$350.00 462.0000 Business Programmable Therm All per unit mall Business Direct Instal Small C&I ighting 0067 er sensoi \$66.0 692,634 0.21 66% \$66.00 66% mall Business Direct Install Small C&I Lighting Interior Daylighting Controls Replacing No Controls 0067.1 per sensor 692.6340 0.213 78.8400 0.009 Small Business Direct Install Small C&I Lighting LED Exit Sign 0068 per lamp \$30.00 100% High Bay Fluorescent Fixture w/ HE Electronic Ballast (T5 >4 0069 \$100.0 701.006 0.21 66% mall Business Direct Install Small C&I ighting er fixture High-Bay Fluorescent Fixture T5 > 4 Lamps w/ HE Electronic Small Business Direct Install Small C&I Lighting Ballast Replacing HID Fixture 0069.1 per fixture \$100.00 701.0069 0.216 66% mall Business Direct Install Small C&I ighting Directional LED Bulb (≥15W 0070 oer lamp \$50. 230.766 0.07 669 Small Business Direct Install Small C&I Lighting Directional LED Lamp replacing 71-110W Lamp 0070.1 per lamp \$50.00 230.7662 0.071 66% mall Business Direct Install 121.914 66% Small C&I ighting Lighting Optimization - Remove 4ft Lamp from T8 System 0072 per lamp \$12.0 0.03Small C&I Remove 4ft Lamp from T8 or T12 system 121.9142 0.038 imall Business Direct Install Lighting 0072.1 per lamp \$12.00 66% ΑII 0074 1,993.0800 **Business Standard** Hot Water Heat Pump Water Heater per unit \$1,000.00 12% All Low Flow Faucet Aerator 0075 \$8.35 131.0300 **Business Standard** Hot Water per unit 1% **Business Standard** ΑII Hot Water Pipe Wrap/Insulation 0076 \$47.17 224.0000 0.026 per unit All Pre-Rinse Spray Valves 0077 \$100.00 2,670.7000 Business Standard Hot Water per unit High Efficiency Pool Pump **Business Standard** ΑII Pools 0078 per unit \$273.32 1.301.2478 100% **Business Standard** ΑII **Pools** Pool Pump VSD 0079 per unit \$579.00 2,461.4482 100% Refrigeration ENERGY STAR Beverage Machine ΑII 0081 \$140.00 1,752.0000 **Business Standard** per unit All 0082 \$262.85 Business Standard Refrigeration High Efficiency Reach-In Refrigerator/Freezer per unit 3.025.8700 All 0083 \$286.16 1,698.0000 100% **Business Standard** Refrigeration Strip Curtains per unit Business Standard All Refrigeration LED Refrigerator Case Light 0084 \$133.00 373.5410 0.060 90% per unit All **Business Standard** ECM Motors Walk-In Coolers & Freezers 0085 \$50.00 401.0000 100% Refrigeration per unit Business Standard All **HVAC** High Efficiency PTAC/PTHP 0086 per ton \$12.26 30.0701 91% **Business Standard** ΑII HVAC Programmable Thermostat Controls 0087 \$5.90 126.052 per ton ΑII **HVAC** Air Source Heat Pump <65 kBtuh 0088 \$120.00 157.6937 91% **Business Standard** per ton All **Business Standard** HVAC Air Source Heat Pump 65<135 kBtuh 0089 \$100.00 91.3304 0.112 91% per ton All **Business Standard** HVAC Air Sourced Air Conditioner <65 kBtuh 0090 \$120.00 81.5600 0.082 91% per ton ΑII HVAC 0091 \$100.00 56.6389 0.057 **Business Standard** Air Sourced Air Conditioner 65<135 kBtuh per ton 81%

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			Measure Description	ies				
Program	Segment	End Use	Measure Name	Coincident Peak Demand Savings (kW/unit)	Annual Operating Hours	Measure Life (Years)	Measure Definition	Measure Efficiency Value
Income-Eligible Weatherization	Single Family	HVAC - Shell	Increased Ceiling Insulation	0.0003		25	Final R-value	38
Income-Eligible Weatherization	Single Family	HVAC - Shell	Increased Duct Insulation	0.1178		20	CFM50	4500
Income-Eligible Weatherization	Single Family	HVAC - Shell	Increased Wall Insulation	0.0004		25	Final R-value	5
Income-Eligible Multi-Family	Multi-Family	Lighting	Screw In - CFLs	0.0029	938	5	CFL (watts)	14
Income-Eligible Multi-Family	Multi-Family	Lighting	Screw In - LEDs	0.0031	938	20	LED (watts)	11.3
Income-Eligible Multi-Family	Multi-Family	Lighting	Screw In - LEDs	0.0034	938	20	LED (watts)	9.0
Income-Eligible Multi-Family	Multi-Family	Hot Water	Low Flow Faucet Aerator	0.0053		9	Low Flow (GPM)	0.94
Income-Eligible Multi-Family	Multi-Family	Hot Water	Pipe Insulated	0.0085	8,760	15	5 linear feet of insulation	
Income-Eligible Multi-Family	Multi-Family	Hot Water	Low Flow Showerhead	0.0173		10	Low Flow (GPM)	2.5
Income-Eligible Multi-Family	Multi-Family	Hot Water	Water Heater Tank Wrap	0.0150	8,760	5	Water Heater Blanket/Tank Wrap	
Income-Eligible Multi-Family	Multi-Family	Electronics	Smart Power Strip	0.0052		5	Smart strip	
Income-Eligible Multi-Family	Multi-Family	Lighting	LED Exit Sign	0.0090	8,760	16	LED (watts)	2.0
-			High Bay Fluorescent Fixture w/ HE Electronic Ballast (T5 >4					
Income-Eligible Multi-Family	Multi-Family	Lighting	lamps)	0.1424	3,088	15	High Bay - T5 >4 lamp	295.0
Income-Eligible Multi-Family	Multi-Family	Lighting	Low Wattage T8 Lamp	0.0053	3,088	10	Low Wattage T8 (watts)	22
Income-Eligible Multi-Family	Multi-Family	Lighting	LED Flood Light (<15W)	0.0000	4,903	10	LED (watts)	8.7
Income-Eligible Multi-Family	Multi-Family	Lighting	Screw In - CFLs	0.0060	3,088	5	CFL (watts)	25
Income-Eligible Multi-Family	Multi-Family	Lighting	Screw In - LEDs	0.0064	3,088	25	LED (watts)	22.0
Income-Eligible Multi-Family	Multi-Family	Lighting	Screw In - LEDs	0.0073	3,088	25	LED (watts)	15.0
Residential Programmable Ther	All	HVAC	Advanced Programmable Communicating Thermostat	1.2600		10	PCT	
Business Programmable Thermo	All	HVAC	Advanced Programmable Communicating Thermostat	1.2600		10	PCT	
Small Business Direct Install	Small C&I	Lighting	Photocell Occupancy Sensor	0.1407	3,088	8	Photocell Occupancy Sensor	587
Small Business Direct Install	Small C&I	Lighting	Interior Daylighting Controls Replacing No Controls	0.1407	3,088	8	Photocell Occupancy Sensor	587
Small Business Direct Install	Small C&I	Lighting	LED Exit Sign	0.0090	8,760	16	LED (watts)	2.0
Small Business Direct Install	Small C&I	Lighting	High Bay Fluorescent Fixture w/ HE Electronic Ballast (T5 >4 lamps)	0.1424	3,088	15	High Bay T5 (>4 lamps, wattage)	295.0
Small Business Direct Install	Small C&I	Lighting	High-Bay Fluorescent Fixture T5 > 4 Lamps w/ HE Electronic Ballast Replacing HID Fixture	0.1424	3,088	15	High Bay T5 (>4 lamps, wattage)	295.0
Small Business Direct Install	Small C&I	Lighting	Directional LED Bulb (≥15W)	0.0469	3.088	11	LED (watts)	22.0
Small Business Direct Install	Small C&I	Lighting	Directional LED Lamp replacing 71-110W Lamp	0.0469	3,088	11	LED (watts)	22.0
Small Business Direct Install	Small C&I	Lighting	Lighting Optimization - Remove 4ft Lamp from T8 System	0.0248	3.088	11	Remove T8	0
Small Business Direct Install	Small C&I	Lighting	Remove 4ft Lamp from T8 or T12 system	0.0248	3,088	11	Remove T8	0
Business Standard	All	Hot Water	Heat Pump Water Heater	0.2976	2.533	10	Efficient EF	2.00
Business Standard	All	Hot Water	Low Flow Faucet Aerator	0.1957	2,333	9	Low Flow (GPM)	0.94
Business Standard	All	Hot Water	Pipe Wrap/Insulation	0.2780	8,760	6	5 linear feet of insulation	0.54
Business Standard	All	Hot Water	Pre-Rinse Spray Valves	0.0000	0,700	5	Low Flow (GPM)	1.06
Business Standard	All	Pools	High Efficiency Pool Pump	0.1485		10	High Efficiency	1.00
Business Standard	All	Pools	Pool Pump VSD	0.2810		10	VSD	+ -
Business Standard	All		ENERGY STAR Beverage Machine	0.1161	8,760	14	Efficient Operating Watts	200
Business Standard	All		High Efficiency Reach-In Refrigerator/Freezer	0.1294	0,700	12	High Efficiency kWh/day	2.76
Business Standard	All		Strip Curtains	0.1254		6	Strip Curtain	
Business Standard	All		LED Refrigerator Case Light	0.0542	6,205	10	LED Display Lighting (watts)	38
Business Standard	All		ECM Motors Walk-In Coolers & Freezers	0.0420	0,203	15	ECM Motor	+
Business Standard	All	HVAC	High Efficiency PTAC/PTHP	0.0420		15	EER	12
Business Standard	All	HVAC	Programmable Thermostat Controls	0.0000		8	Programmable Tstat	+
Business Standard	All	HVAC	Air Source Heat Pump <65 kBtuh	0.1941	816	15	SEER	14
Business Standard	All	HVAC	Air Source Heat Pump 65<135 kBtuh	0.1341	816	15	SEER	14
Business Standard	All	HVAC	Air Sourced Air Conditioner <65 kBtuh	0.0659	1,000	15	EER	14
Business Standard	All	HVAC	Air Sourced Air Conditioner 65<135 kBtuh	0.0458	1,000	15	EER	11.7
Duanicas Standalu	/Ail	IIVAC	All Sourced All Collultioner 03/133 KDtull	0.0438	1,000	13	LLIN	11./

ndicates default plan values that can be adjusted for unique installations.

Published 3/4/2016 Valid for Program Implementation Dates: Search using Drop-down Filters in Headers Early 2016 to Q Count:

				Measure Description			Algorithms
Incornect Flighbe Waterbreatons Single Family March Shell Increased Wall	Program	Segment	End Use	Measure Name	Baseline Definition	Efficiency	Electric Energy Savings Algorithm
Income-Eighbe Multi-Family Multi-Family Multi-Family Lighting Exercision Multi-Family Multi-Famil	Income-Eligible Weatherization	Single Family	HVAC - Shell	Increased Ceiling Insulation	Previous R-value	5	=ROUND((1/R57-1/P57)*(AA57*AC57 + AB57*AE57),4)
Income Flighbe Multi-Family Lighting Screw in - LTDS	Income-Eligible Weatherization	Single Family	HVAC - Shell	Increased Duct Insulation	CFM50	4800	=ROUND((R58-P58)*(AA58*AC58 + AB58*AE58),4)
Income Figible Multi-Family Multi-Family Ugbring Serve in - LED State For 1 complaint Huldgem (world) 43	Income-Eligible Weatherization	Single Family	HVAC - Shell	Increased Wall Insulation	Previous R-value	2	=ROUND((1/R59-1/P59)*(AA59*AC59 + AB59*AE59),4)
	Income-Eligible Multi-Family	Multi-Family	Lighting	Screw In - CFLs	EISA tier 1 compliant Halogen (watts)	43	=ROUND((R60-P60)/1000*M60*AC60,4)
Income-Eighbe Nutl-Family Multi-Family Multi-	Income-Eligible Multi-Family	Multi-Family	Lighting	Screw In - LEDs	EISA tier 1 compliant Halogen (watts)	43	=ROUND((R61-P61)/1000*M61*AC61,4)
Income Eligible Multi-Family Multi-Family Not Water Pipe insulated nome	Income-Eligible Multi-Family	Multi-Family	Lighting	Screw In - LEDs	EISA tier 1 compliant Halogen (watts)	43	=ROUND((R62-P62)/1000*M62*AC62,4)
Income-Eigible Multi-Family Inco	Income-Eligible Multi-Family	Multi-Family	Hot Water	Low Flow Faucet Aerator	Standard (GPM)	1.39	=ROUND((R63-P63)*AC63*(AE63*365.25)*AG63,4)
Income: Figible Multi-Family Multi-Family Exercises Multi-Family Lighting Li	Income-Eligible Multi-Family	Multi-Family	Hot Water	Pipe Insulated	none		=ROUND(74.0356963418427,4)
	Income-Eligible Multi-Family	Multi-Family	Hot Water	Low Flow Showerhead	Standard (GPM)	4	=ROUND((R65-P65)*AC65*(AE65*365.25)*AG65,4)
	Income-Eligible Multi-Family	Multi-Family	Hot Water	Water Heater Tank Wrap	No Blanket		=ROUND(131.295784945569,4)
Income-Eligible Multi-Family Income-Eligible Multi-Family Ighting Income-Eligible Multi-Family Ighting Income-Eligible Multi-Family Ighting	Income-Eligible Multi-Family	Multi-Family	Electronics	Smart Power Strip	Standard outlet strip		=ROUND(73.73,4)
Image Imag	Income-Eligible Multi-Family	Multi-Family	Lighting	LED Exit Sign	Fluorescent (watts)	11.0	=ROUND((R68-P68)/1000*M68*AC68,4)
				High Bay Fluorescent Fixture w/ HE Electronic Ballast (T5 >4			
	Income-Eligible Multi-Family	Multi-Family	Lighting	lamps)	Metal Halide (watts)	456.0	=ROUND((R69-P69)/1000*M69*AC69,4)
Income-Eligible Multi-Family Mu	Income-Eligible Multi-Family	Multi-Family	Lighting	Low Wattage T8 Lamp	Standard T8 (watts)	28	=ROUND((R70-P70)/1000*M70*AC70,4)
Income-Eligible Multi-Family Multi-Family Ughting Screw in - LEDs ElSA tier 1 compliant Halogen (watts) 72 ##ROUND((R73-P73)_1000*M73*AC73,4] network Family Ughting Screw in - LEDs ElSA tier 1 compliant Halogen (watts) 72 ##ROUND((R74-P73)_1000*M73*AC73,4] network Family Ughting Screw in - LEDs ElSA tier 1 compliant Halogen (watts) 72 ##ROUND((R74-P73)_1000*M73*AC73,4] network Family Ughting Family Path Family Ughting Family Path Family Ughting Family Path Family Ughting Family Path Fam	Income-Eligible Multi-Family	Multi-Family	Lighting		Metal Halide (watts)	51.7	=ROUND((R71-P71)/1000*M71*AC71,4)
	Income-Eligible Multi-Family	Multi-Family	Lighting	Screw In - CFLs	EISA tier 1 compliant Halogen (watts)	72	=ROUND((R72-P72)/1000*M72*AC72,4)
Residental Programmable Therm All HVAC Advanced Programmable Communicating Thermostat No PCT = ROUND(62,4) Business Programmable Therm All HVAC Advanced Programmable Communicating Thermostat No PCT = ROUND(77,1007*AG77*M77*AC77,4) Final Business Direct Install Small C&I Lighting Interior Daylighting Controls Replacing No Control = ROUND(P77,1000*AG77*M77*AC77,4) Final Business Direct Install Small C&I Lighting Interior Daylighting Controls Replacing No Control = ROUND(P77,1000*AG77*M77*AC77,4) High Bay Fluorescent Fixture W HE Electronic Ballast TS > A Small C&I Lighting Interior Daylighting Controls Replacing No Control = ROUND(P78,1000*AG77*M78*AC78,4) High Bay Fluorescent Fixture W HE Electronic Ballast TS > A Metal Halide (watts) = ROUND(R80-P80)/1000*M80*AC78,4) High Bay Fluorescent Fixture TS > 4 Lamps w/ HE Electronic Metal Halide (watts) = A Small C&I Lighting Interior Daylighting Directional LED Business Direct Install Small C&I Lighting Interior Daylighting Lighting Lighting Lighting Lighting Directional LED Business Direct Install Small C&I Lighting Interior Daylighting Lighting Lighting Lighting Lighting Lighting Lighting Lighting Lighting Directional LED Business Standard All Hot Water Business Standard All Hot Water Lighting L	Income-Eligible Multi-Family	Multi-Family	Lighting	Screw In - LEDs	EISA tier 1 compliant Halogen (watts)	72	=ROUND((R73-P73)/1000*M73*AC73,4)
Business Programmable Thermon HVAC Advanced Programmable Communicating Thermostat No PCT = ROUND(P77/1000*AG77*M77*AC77,4)	Income-Eligible Multi-Family	Multi-Family	Lighting	Screw In - LEDs	EISA tier 1 compliant Halogen (watts)	72	=ROUND((R74-P74)/1000*M74*AC74,4)
Small Business Direct Install Small C&I Lighting Photocell Occupancy Sensor No Control =ROUND(P77/1000*A677*M77*AC77.4)	Residential Programmable Ther	All	HVAC	Advanced Programmable Communicating Thermostat	No PCT		=ROUND(462,4)
Small Business Direct Install Small C&l Lighting	Business Programmable Thermo	All	HVAC	Advanced Programmable Communicating Thermostat	No PCT		=ROUND(462,4)
Small Business Direct Install Small C&l Lighting	Small Business Direct Install	Small C&I	Lighting	Photocell Occupancy Sensor	No Control		=ROUND(P77/1000*AG77*M77*AC77,4)
Small Business Direct Install Small C& Lighting LED Exit Sign High Bay Fluorescent Fixture w/ HE Electronic Ballast (T5 > 4 Metal Halide (watts) 456.0 =ROUND((R80-P80)/1000*M80*AC80,4)	Small Business Direct Install	Small C&I	Lighting	Interior Daylighting Controls Replacing No Controls	No Control		=ROUND(P78/1000*AG78*M78*AC78,4)
Small Business Direct Install Small C&I Lighting Lamps High-Bay Fluorescent Fixture T5 > 4 Lamps w/ HE Electronic Small Business Direct Install Small C&I Lighting Ballast Replacing HID Fixture Metal Halide (watts) 456.0 =ROUND((R81-P81)/1000*M81*AC81.4)	Small Business Direct Install	Small C&I	Lighting		Fluorescent (watts)	11.0	=ROUND((R79-P79)/1000*M79*AC79,4)
Small Business Direct Install Small C&I Lighting Ballast Replacing HID Fixture Metal Halide (watts) Metal Halide (watts) Metal Halide (watts) ### FOUNDI((R81-P81)/1000*M81*AC81,4) ### FOUNDI(R82-P82)/1000*M82*AC82,4) ### FOUNDI(R83-P81)/1000*M81*AC81,4) ### FOUNDI(R83-P81)/1000*M81*AC81,4) ### FOUNDI(R83-P81)/1000*M81*AC81,4) ### FOUNDI(R83-P81)/1000*M81*AC83,4) ### FOUNDI(R83-P83)/1000*M83*AC83,4) ### FOUNDI(R83-P83)/1000*M83*AC83,4) ### FOUNDI(R83-P83)/1000*M83*AC83,4) ### FOUNDI(R83-P83)/1000*M83*AC83,4) ### FOUNDI(R83-P83)/1000*M83*AC83,4) ### FOUNDI(R84-P84)/1000*M84*AC84,4) ##	Small Business Direct Install	Small C&I	Lighting	l	Metal Halide (watts)	456.0	=ROUND((R80-P80)/1000*M80*AC80,4)
Small Business Direct Install Small C&I Lighting Directional LED Lamp replacing 71-110W Lamp Incandescent (watts) T8 4 ft (wat	Small Business Direct Install	Small C&I	Lighting		Metal Halide (watts)	456.0	=ROUND((R81-P81)/1000*M81*AC81,4)
Small Business Direct Install Small C&I Lighting Lighting C&I Lighting Lighting C&I Lighti	Small Business Direct Install	Small C&I	Lighting	Directional LED Bulb (≥15W)	Incandescent (watts)	75.0	=ROUND((R82-P82)/1000*M82*AC82,4)
Small Business Direct Install Small C&I Lighting Remove 4ft Lamp from T8 or T12 system T8 4 ft (watts) 28 =ROUND((R85-P85)/1000*M85*AC85,4) Business Standard All Hot Water Heat Pump Water Heater Baseline EF 0.95 =ROUND(((1/R86-1/R86)*AE86*AC86*365.25),4) Business Standard All Hot Water Pipe Wrap/Insulation none ROUND((R87-P87)*AC87*(AE87*365.25),4) Business Standard All Hot Water Pre-Rinse Spray Valves Standard (GPM) 1.39 =ROUND((R89-P89)*AC87*(AE87*365.25),4) Business Standard All Pools High Efficiency Pool Pump Standard Pool Pump =ROUND((R89-P89)*AC89*(AE89*365.25),4) Business Standard All Pools Pool Pump Standard Pool Pump =ROUND((R89-P89)*AC89*(AE89*365.25),4) Business Standard All Refrigeration ENERGY STAR Beverage Machine Watts Base 400 =ROUND((R92-P92)/1000*M92,4) Business Standard All Refrigeration High Efficiency Reach-in Refrigerator/Freezer Standard Wh/day 3.54 =ROUND((R93-P93)*365.25*AC93,4) Business Standard All Refrigeration EDR Refrigeration EDR Refrigeration EDR Refrigeration EDR Refrigeration EDR Motors Walk-in Coolers & Freezers Standard Motor =ROUND((R93-P93)*365.25*AC93,4) Business Standard All Refrigeration ECM Motors Walk-in Coolers & Freezers Standard Motor =ROUND((R97-P97)*A997 + AG97*AB97)*AC97/AE97,4 Business Standard All HVAC High Efficiency PTAC/PTHP EER 10.2 ROUND(((1/R97-1/P97)*A997 + AG97*AB97)*AC97/AE97,4 Business Standard All HVAC Air Source Heat Pump 65<135 kBtuh SEER 13 ND((((1/R97-1/P97)*AA99 + AG99*AB99)*AC99/AE99,4 Business Standard All HVAC Air Source Heat Pump 65<135 kBtuh SEER 13 ND((((1/R97-1/P97)*AA99 + AG99*AB99)*AC99/AE99,4 Business Standard All HVAC Air Source Heat Pump 65<135 kBtuh SEER 13 ND((((1/R97-1/P97)*AA99 + AG99*AB99)*AC99/AE99,4 Business Standard All HVAC Air Source Heat Pump 65<135 kBtuh SEER 13 ND((((1/R97-1/P97)*AA99 + AG99*AB99)*AC99/AE99,4 Business Standard All HVAC Air Source Heat Pump 65<135 kBtuh SEER 13 ND((((1/R97-1/P97)*AA99 + AG99*AB99)*AC99/AE99,4 Business Standard All HVAC Air Source Heat Pump 65<135 kBtuh SEER 13 ND((((1/R97-1/P97)*AA99 + AG	Small Business Direct Install	Small C&I	Lighting	Directional LED Lamp replacing 71-110W Lamp	Incandescent (watts)	75.0	=ROUND((R83-P83)/1000*M83*AC83,4)
Business Standard All Hot Water Low Flow Faucet Aerator Standard (GPM) 1.39 =ROUND(((1/R86-1/P86)*AE86*AC86*365.25),4) Business Standard All Hot Water Low Flow Faucet Aerator Standard (GPM) 1.39 =ROUND(((R87-P87)*AC87*(AE87*365.25),4) Business Standard All Hot Water Pipe Wrap/Insulation none =ROUND((24,4) Business Standard All Pools High Efficiency Pool Pump Standard (GPM) 1.9 =ROUND((R89-P89)*AC89*(AE89*365.25),4) Business Standard All Pools High Efficiency Pool Pump Standard Pool Pump =ROUND((1301.2477183601,4) Business Standard All Pools Pool Pump Standard Pool Pump =ROUND((1301.2477183601,4)) Business Standard All Refrigeration ENERGY STAR Beverage Machine Watts Base 400 =ROUND((R92-P92)/1000*M92,4) Business Standard All Refrigeration High Efficiency Reach-In Refrigerator/Freezer Standard kWh/day 3.54 =ROUND((R93-P93)*365.25*AC93,4) Business Standard All Refrigeration LED Refrigerator Case Light Base Refrigeration -Standard (watts) 81 =ROUND((R93-P95)/1000*M95*(1+AC95),4) Business Standard All Refrigeration ECM Motors Walk-In Coolers & Freezers Standard Motor =ROUND((17/R86-1/P86)*AG97-AG97-AG97-AG97-AG97-AG97-AG97-AG97-	Small Business Direct Install	Small C&I	Lighting	Lighting Optimization - Remove 4ft Lamp from T8 System	T8 4 ft (watts)	28	=ROUND((R84-P84)/1000*M84*AC84,4)
Business Standard All Hot Water Heat Pump Water Heater Baseline EF 0.95 =ROUND(((1/R86-1/P86)*AE86*AC86*365.25),4) Business Standard All Hot Water Low Flow Faucet Aerator Standard (GPM) 1.39 =ROUND((R87-P87)*AC87*A65.25),4) Business Standard All Hot Water Pipe Wrap/Insulation none =ROUND(24,4) Business Standard All Hot Water Pre-Rinse Spray Valves Standard (GPM) 1.9 =ROUND((R89-P89)*AC89*(AE89*365.25),4) Business Standard All Pools High Efficiency Pool Pump Standard Pool Pump =ROUND(1301.24777183601,4) Business Standard All Pools Pool Pump VSD Standard Pool Pump =ROUND(2461.44821213111,4) Business Standard All Refrigeration ENERGY STAR Beverage Machine Watts Base 400 =ROUND(R92-P92)/1000*M92,4) Business Standard All Refrigeration Strip Curtains none =ROUND(1693-P93)*365.25*AQ3,4) Business Standard All Refrigeration LED Refrigerator Case Light Base Refrigeration - Standard Motor =ROUND(101,4) Business Standard All Refrigeration EMM Motors Walk-in Coolers & Freezers Standard Motor =ROUND((1787-1/P97)*AA97 + AG97*AB97)*AC97/AE97,4 Business Standard All HVAC Air Source Heat Pump 65 KBtuh SEER 13 ROUND((1/R90-1/P90)*AA100 + AG100*AB100)*AC100/AE Business Standard All HVAC Air Source Heat Pump 65 KBtuh SEER 13 ND(((1/R100-1/P100)*AA100 + AG100*AB100)*AC100/AE	Small Business Direct Install	Small C&I	Lighting	Remove 4ft Lamp from T8 or T12 system	T8 4 ft (watts)	28	=ROUND((R85-P85)/1000*M85*AC85,4)
Business Standard All Hot Water Pipe Wrap/insulation none =ROUND(224,4) Business Standard All Hot Water Pre-Rinse Spray Valves Standard (GPM) 1.9 =ROUND((R89-P89)*AC89*(AE89*365.25),4) Business Standard All Pools High Efficiency Pool Pump Standard Pool Pump =ROUND(1301.24777183601,4) Business Standard All Pools Pool Pump VSD Standard Pool Pump =ROUND(2461.44821213111,4) Business Standard All Refrigeration ENERGY STAR Beverage Machine Watts Base 400 =ROUND((R92-P92)/1000*M92,4) Business Standard All Refrigeration High Efficiency Reach-In Refrigerator/Freezer Standard kWh/day 3.54 =ROUND((R93-P93)*365.25*AC93,4) Business Standard All Refrigeration Strip Curtains none =ROUND((1698,4) Business Standard All Refrigeration LED Refrigerator Case Light Base Refrigeration - Standard (watts) 81 =ROUND((R95-P95)/1000*M95*(1+AC95),4) Business Standard All Refrigeration ECM Motors Walk-In Coolers & Freezers Standard Motor =ROUND((1797-1/P97)*AA97 + AG97*AB97)*AC97/AE97,4 Business Standard All HVAC High Efficiency PTAC/PTHP EER 10.2 ROUND((17897-1/P97)*AA97 + AG97*AB97)*AC97/AE97,4 Business Standard All HVAC Air Source Heat Pump <65 kBtuh SEER 13 ROUND(((17890-1/P90)*AA100 + AG100*AB100)*AC100/AE	Business Standard	All		Heat Pump Water Heater	Baseline EF	0.95	=ROUND(((1/R86-1/P86)*AE86*AC86*365.25),4)
Business Standard All Hot Water Pre-Rinse Spray Valves Standard (GPM) 1.9 =ROUND((R89-P89)*AC89*(AE89*365.25),4) Business Standard All Pools High Efficiency Pool Pump Standard Pool Pump = ROUND(1301.24777183601,4) Business Standard All Pools Pool Pump VSD Standard Pool Pump = ROUND(2461.44821213111,4) Business Standard All Refrigeration ENERGY STAR Beverage Machine Watts Base 400 =ROUND((R92-P92)/1000*M92,4) Business Standard All Refrigeration High Efficiency Reach-In Refrigerator/Freezer Standard kWh/day 3.54 =ROUND((R93-P93)*365.25*AC93,4) Business Standard All Refrigeration Strip Curtains none =ROUND(1698,4) Business Standard All Refrigeration LED Refrigerator Case Light Base Refrigeration - Standard (watts) 81 =ROUND((R95-P95)/1000*M95*(1+AC95),4) Business Standard All Refrigeration LD Refrigerator Case Light Base Refrigeration - Standard Motor =ROUND(17,895-P95)/1000*M95*(1+AC95),4) Business Standard All HVAC High Efficiency PTAC/PTHP EER 10.2 ROUND(((1/R97-1/P97)*AA97 + AG97*AB97)*AC97/AE97,4 Business Standard All HVAC Air Source Heat Pump <65 kBtuh SEER 13 ROUND(((1/R97-1/P99)*AA99 + AG99*AB99)*AC99/AE99,4 Business Standard All HVAC Air Source Heat Pump 65<135 kBtuh SEER 13 ND((((1/R100-1/P100)*AA100 + AG100*AB100)*AC100/AE	Business Standard	All	Hot Water	Low Flow Faucet Aerator	Standard (GPM)	1.39	=ROUND((R87-P87)*AC87*(AE87*365.25),4)
Business Standard All Pools High Efficiency Pool Pump Standard Pool Pump = ROUND(1301.24777183601,4) Business Standard All Pools Pool Pump VSD Standard Pool Pump = ROUND(2461.44821213111,4) Business Standard All Refrigeration ENERGY STAR Beverage Machine Watts Base 400 =ROUND((R92-P92)/1000*M92,4) Business Standard All Refrigeration High Efficiency Reach-In Refrigerator/Freezer Standard kWh/day 3.54 =ROUND((R92-P92)/1000*M92,4) Business Standard All Refrigeration Strip Curtains none = ROUND(1693-P93)*365.25*AC93,4) Business Standard All Refrigeration LED Refrigerator Case Light Base Refrigeration - Standard (watts) 81 =ROUND(1695-P95)/1000*M95*(1+AC95),4) Business Standard All Refrigeration ECM Motors Walk-In Coolers & Freezers Standard Motor = ROUND(1(1/R97-1/P95)*AA97 + AG97*AB97)*AC97/AE97,4 Business Standard All HVAC High Efficiency PTAC/PTHP EER 10.2 ROUND(((1/R97-1/P97)*AA97 + AG97*AB97)*AC97/AE97,4 Business Standard All HVAC Air Source Heat Pump <65 kBtuh SEER 13 ROUND(((1/R90-1/P100)*AA100 + AG100*AB100)*AC100/AE Business Standard All HVAC Air Source Heat Pump 65	Business Standard	All	Hot Water	Pipe Wrap/Insulation	none		=ROUND(224,4)
Business Standard All Pools High Efficiency Pool Pump Standard Pool Pump = ROUND(1301.24777183601,4) Business Standard All Pools Pool Pump VSD Standard Pool Pump = ROUND(2461.44821213111,4) Business Standard All Refrigeration ENERGY STAR Beverage Machine Watts Base 400 =ROUND((R92-P92)/1000*M92,4) Business Standard All Refrigeration High Efficiency Reach-In Refrigerator/Freezer Standard kWh/day 3.54 =ROUND((R92-P92)/1000*M92,4) Business Standard All Refrigeration Strip Curtains none = ROUND(1693-P93)*365.25*AC93,4) Business Standard All Refrigeration LED Refrigerator Case Light Base Refrigeration - Standard (watts) 81 =ROUND(1695-P95)/1000*M95*(1+AC95),4) Business Standard All Refrigeration ECM Motors Walk-In Coolers & Freezers Standard Motor = ROUND(1(1/R97-1/P95)*AA97 + AG97*AB97)*AC97/AE97,4 Business Standard All HVAC High Efficiency PTAC/PTHP EER 10.2 ROUND(((1/R97-1/P97)*AA97 + AG97*AB97)*AC97/AE97,4 Business Standard All HVAC Air Source Heat Pump <65 kBtuh SEER 13 ROUND(((1/R90-1/P100)*AA100 + AG100*AB100)*AC100/AE Business Standard All HVAC Air Source Heat Pump 65	Business Standard	All	Hot Water	Pre-Rinse Spray Valves	Standard (GPM)	1.9	=ROUND((R89-P89)*AC89*(AE89*365.25),4)
Business Standard All Pools Pool Pump VSD Standard Pool Pump =ROUND(2461.44821213111,4) Business Standard All Refrigeration ENERGY STAR Beverage Machine Watts Base 400 =ROUND((R92-P92)/1000*M92,4) Business Standard All Refrigeration High Efficiency Reach-In Refrigerator/Freezer Standard kWh/day 3.54 =ROUND((R92-P93)*365.25*AC93,4) Business Standard All Refrigeration Strip Curtains none =ROUND(1698,4) Business Standard All Refrigeration LED Refrigerator Case Light Base Refrigeration - Standard (watts) 81 =ROUND((R95-P95)/1000*M95*(1+AC95),4) Business Standard All Refrigeration ECM Motors Walk-In Coolers & Freezers Standard Motor =ROUND(401,4) Business Standard All HVAC High Efficiency PTAC/PTHP EER 10.2 ROUND(((1/R97-1/P97)*AA97 + AG97*AB97)*AC97/AE97,4 Business Standard All HVAC Air Source Heat Pump <65 kBtuh SEER 13 ROUND(((1/R99-1/P99)*AA99 + AG99*AB99)*AC99/AE99,4 Business Standard All HVAC Air Source Heat Pump 65<135 kBtuh SEER 13 ND(((1/R100-1/P100)*AA100 + AG100*AB100)*AC100/AE1	Business Standard	All	Pools	High Efficiency Pool Pump	Standard Pool Pump		
Business Standard All Refrigeration High Efficiency Reach-In Refrigerator/Freezer Standard kWh/day 3.54 =ROUND((R93-P93)*365.25*AC93,4) Business Standard All Refrigeration Strip Curtains none =ROUND(1698,4) Business Standard All Refrigeration LED Refrigerator Case Light Base Refrigeration - Standard (watts) 81 =ROUND((R95-P95)/1000*M95*(1+AC95),4) Business Standard All Refrigeration ECM Motors Walk-In Coolers & Freezers Standard Motor =ROUND((401,4) Business Standard All HVAC High Efficiency PTAC/PTHP EER 10.2 ROUND(((1/R97-1/P97)*AA97 + AG97*AB97)*AC97/AE97,4 Business Standard All HVAC Programmable Thermostat Controls No Tstat =ROUND(126.052734375,4) Business Standard All HVAC Air Source Heat Pump <65 kBtuh SEER 13 ROUND(((1/R99-1/P99)*AA99 + AG99*AB99)*AC99/AE99,4 Business Standard All HVAC Air Source Heat Pump 65	Business Standard	All	Pools	Pool Pump VSD	Standard Pool Pump		=ROUND(2461.44821213111,4)
Business Standard All Refrigeration Strip Curtains none =ROUND(1698,4) Business Standard All Refrigeration LED Refrigerator Case Light Base Refrigeration - Standard (watts) 81 =ROUND((R95-P95)/1000*M95*(1+AC95),4) Business Standard All Refrigeration ECM Motors Walk-In Coolers & Freezers Standard Motor =ROUND(401,4) Business Standard All HVAC High Efficiency PTAC/PTHP EER 10.2 ROUND(((1/R97-1/P97)*AA97 + AG97*AB97)*AC97/AE97,4 Business Standard All HVAC Programmable Thermostat Controls No Tstat =ROUND(126.052734375,4) Business Standard All HVAC Air Source Heat Pump <65 kBtuh SEER 13 ROUND(((1/R99-1/P99)*AA99 + AG99*AB99)*AC99/AE99,4 Business Standard All HVAC Air Source Heat Pump 65	Business Standard	All	Refrigeration	ENERGY STAR Beverage Machine	Watts Base	400	=ROUND((R92-P92)/1000*M92,4)
Business Standard All Refrigeration LED Refrigerator Case Light Base Refrigeration - Standard (watts) 81 =ROUND((R95-P95)/1000*M95*(1+AC95),4) Business Standard All Refrigeration ECM Motors Walk-In Coolers & Freezers Standard Motor =ROUND(401,4) Business Standard All HVAC High Efficiency PTAC/PTHP EER 10.2 ROUND(((1/R97-1/P97)*AA97 + AG97*AB97)*AC97/AE97,4 Business Standard All HVAC Programmable Thermostat Controls No Tstat =ROUND(126.052734375,4) Business Standard All HVAC Air Source Heat Pump <65 kBtuh SEER 13 ROUND(((1/R99-1/P99)*AA99 + AG99*AB99)*AC99/AE99,4 Business Standard All HVAC Air Source Heat Pump 65<135 kBtuh SEER 13 ND(((1/R100-1/P100)*AA100 + AG100*AB100)*AC100/AE	Business Standard	All	Refrigeration	High Efficiency Reach-In Refrigerator/Freezer	Standard kWh/day	3.54	=ROUND((R93-P93)*365.25*AC93,4)
Business Standard All Refrigeration ECM Motors Walk-In Coolers & Freezers Standard Motor =ROUND(401,4) Business Standard All HVAC High Efficiency PTAC/PTHP EER 10.2 ROUND((1/R97-1/P97)*AA97 + AG97*AB97)*AC97/AE97,A Business Standard All HVAC Programmable Thermostat Controls No Tstat =ROUND(126.052734375,4) Business Standard All HVAC Air Source Heat Pump <65 kBtuh SEER 13 ROUND((1/R99-1/P99)*AA99 + AG99*AB99)*AC99/AE99,A Business Standard All HVAC Air Source Heat Pump 65<135 kBtuh SEER 13 ND(((1/R90-1/P100)*AA100 + AG100*AB100)*AC100/AE	Business Standard	All	Refrigeration	Strip Curtains	none		=ROUND(1698,4)
Business Standard All HVAC High Efficiency PTAC/PTHP EER 10.2 ROUND(((1/R97-1/P97)*AA97 + A697*AB97)*AC97/AE97,A Business Standard All HVAC Programmable Thermostat Controls Business Standard All HVAC Air Source Heat Pump <65 kBtuh SEER 13 ROUND(((1/R99-1/P99)*AA99 + A699*AB99)*AC99/AE99,A Business Standard All HVAC Air Source Heat Pump 65<135 kBtuh SEER 13 ND(((1/R90-1/P100)*AA100 + AG100*AB100)*AC100/AE	Business Standard	All	Refrigeration	LED Refrigerator Case Light	Base Refrigeration - Standard (watts)	81	=ROUND((R95-P95)/1000*M95*(1+AC95),4)
Business Standard All HVAC Programmable Thermostat Controls No Tstat =ROUND(126.052734375,4) Business Standard All HVAC Air Source Heat Pump <65 kBtuh SEER 13 ROUND(((1/R99-1/P99)*AA99 + AG99*AB99)*AC99/AE99,4 Business Standard All HVAC Air Source Heat Pump 65<135 kBtuh SEER 13 ND(((1/R100-1/P100)*AA100 + AG100*AB100)*AC100/AE	Business Standard	All	Refrigeration	ECM Motors Walk-In Coolers & Freezers	Standard Motor		=ROUND(401,4)
Business Standard All HVAC Air Source Heat Pump <65 kBtuh SEER 13 ROUND(((1/R99-1/P99)*AA99 + AG99*AB99)*AC99/AE99,4 Business Standard All HVAC Air Source Heat Pump 65<135 kBtuh	Business Standard	All	HVAC	High Efficiency PTAC/PTHP	EER	10.2	ROUND(((1/R97-1/P97)*AA97 + AG97*AB97)*AC97/AE97,4
Business Standard All HVAC Air Source Heat Pump <65 kBtuh SEER 13 ROUND(((1/R99-1/P99)*AA99 + AG99*AB99)*AC99/AE99,AB99,AB99,AB99)*AC99/AE99,AB99,AB99,AB99,AB99,AB99,AB99,AB99,	Business Standard	All	HVAC	Programmable Thermostat Controls	No Tstat		=ROUND(126.052734375,4)
Business Standard All HVAC Air Source Heat Pump 65<135 kBtuh SEER 13 ND(((1/R100-1/P100)*AA100 + AG100*AB100)*AC100/AE	Business Standard	All	HVAC	Air Source Heat Pump <65 kBtuh	SEER	13	ROUND(((1/R99-1/P99)*AA99 + AG99*AB99)*AC99/AE99,4
3usiness Standard All HVAC Air Sourced Air Conditioner <65 kBtuh FFR 13 =ROLIND/(1/R101-1/P101)*AΔ101*ΔC101/ΔF101 Δ)	Business Standard	All	HVAC		SEER	13	ND(((1/R100-1/P100)*AA100 + AG100*AB100)*AC100/AE
15 NONE 17 101 AND	Business Standard	All	HVAC	Air Sourced Air Conditioner <65 kBtuh	EER	13	=ROUND((1/R101-1/P101)*AA101*AC101/AE101,4)
Business Standard All HVAC Air Sourced Air Conditioner 65<135 kBtuh EER 11.2 =ROUND((1/R102-1/P102)*AA102*AC102/AE102,4)	Business Standard	All	HVAC	Air Sourced Air Conditioner 65<135 kBtuh	EER	11.2	=ROUND((1/R102-1/P102)*AA102*AC102/AE102,4)

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			Measure Description			
Program	Segment	End Use	Measure Name	Incentive Definition	Net to Gross Ratio (NTG)	Net Electric Energy Savings (Annual kWh/unit)
Income-Eligible Weatherization	Single Family	HVAC - Shell	Increased Ceiling Insulation	100% covered by program	100%	0.52
Income-Eligible Weatherization	Single Family	HVAC - Shell	Increased Duct Insulation	100% covered by program	100%	210.49
Income-Eligible Weatherization	Single Family	HVAC - Shell	Increased Wall Insulation	100% covered by program	100%	0.72
Income-Eligible Multi-Family	Multi-Family	Lighting	Screw In - CFLs	100% covered by program	100%	28.29
Income-Eligible Multi-Family	Multi-Family	Lighting	Screw In - LEDs	100% covered by program	100%	30.95
Income-Eligible Multi-Family	Multi-Family	Lighting	Screw In - LEDs	100% covered by program	100%	33.17
Income-Eligible Multi-Family	Multi-Family	Hot Water	Low Flow Faucet Aerator	100% covered by program	100%	42.29
Income-Eligible Multi-Family	Multi-Family	Hot Water	Pipe Insulated	100% covered by program	100%	74.04
Income-Eligible Multi-Family	Multi-Family	Hot Water	Low Flow Showerhead	100% covered by program	100%	235.99
Income-Eligible Multi-Family	Multi-Family	Hot Water	Water Heater Tank Wrap	100% covered by program	100%	131.30
Income-Eligible Multi-Family	Multi-Family	Electronics	Smart Power Strip	100% covered by program	100%	73.73
Income-Eligible Multi-Family	Multi-Family	Lighting	LED Exit Sign	100% covered by program	100%	78.84
			High Bay Fluorescent Fixture w/ HE Electronic Ballast (T5 >4			
Income-Eligible Multi-Family	Multi-Family	Lighting	lamps)	100% covered by program	100%	701.01
Income-Eligible Multi-Family	Multi-Family	Lighting	Low Wattage T8 Lamp	100% covered by program	100%	26.12
Income-Eligible Multi-Family	Multi-Family	Lighting	LED Flood Light (<15W)	100% covered by program	100%	210.83
Income-Eligible Multi-Family	Multi-Family	Lighting	Screw In - CFLs	100% covered by program	100%	204.64
Income-Eligible Multi-Family	Multi-Family	Lighting	Screw In - LEDs	100% covered by program	100%	217.70
Income-Eligible Multi-Family	Multi-Family	Lighting	Screw In - LEDs	100% covered by program	100%	248.18
Residential Programmable Ther	All	HVAC	Advanced Programmable Communicating Thermostat	100% covered by program, \$25/yr after 1st yr	100%	462.00
Business Programmable Thermo	All	HVAC	Advanced Programmable Communicating Thermostat	100% covered by program, \$25/yr after 1st yr	100%	462.00
Small Business Direct Install	Small C&I	Lighting	Photocell Occupancy Sensor	per unit	100%	692.63
Small Business Direct Install	Small C&I	Lighting	Interior Daylighting Controls Replacing No Controls	per unit	100%	692.63
Small Business Direct Install	Small C&I	Lighting	LED Exit Sign	per unit	100%	78.84
Small Business Direct Install	Small C&I	Lighting	High Bay Fluorescent Fixture w/ HE Electronic Ballast (T5 >4 lamps)	per unit	100%	701.01
Small Business Direct Install	Small C&I	Lighting	High-Bay Fluorescent Fixture T5 > 4 Lamps w/ HE Electronic Ballast Replacing HID Fixture	per unit	100%	701.01
Small Business Direct Install	Small C&I	Lighting	Directional LED Bulb (≥15W)	per unit	100%	230.77
Small Business Direct Install	Small C&I	Lighting	Directional LED Lamp replacing 71-110W Lamp	per unit	100%	230.77
Small Business Direct Install	Small C&I	Lighting	Lighting Optimization - Remove 4ft Lamp from T8 System	per unit	100%	121.91
Small Business Direct Install	Small C&I	Lighting	Remove 4ft Lamp from T8 or T12 system	per unit	100%	121.91
Business Standard	All	Hot Water	Heat Pump Water Heater	per unit	100%	1993.08
Business Standard	All	Hot Water	Low Flow Faucet Aerator	per unit	100%	131.03
Business Standard	All	Hot Water	Pipe Wrap/Insulation	per unit	100%	224.00
Business Standard	All	Hot Water	Pre-Rinse Spray Valves	per unit	100%	2670.70
Business Standard	All	Pools	High Efficiency Pool Pump	per unit	100%	1301.25
Business Standard	All	Pools	Pool Pump VSD	per unit	100%	2461.45
Business Standard	All	Refrigeration	ENERGY STAR Beverage Machine	per unit	100%	1752.00
Business Standard	All	Refrigeration	High Efficiency Reach-In Refrigerator/Freezer	per unit	100%	3025.87
Business Standard	All	Refrigeration	Strip Curtains	per unit	100%	1698.00
Business Standard	All	Refrigeration	LED Refrigerator Case Light	per unit	100%	373.54
Business Standard	All	Refrigeration	ECM Motors Walk-In Coolers & Freezers	per unit	100%	401.00
Business Standard	All	HVAC	High Efficiency PTAC/PTHP	per unit	100%	30.07
Business Standard	All	HVAC	Programmable Thermostat Controls	per unit	100%	126.05
Business Standard	All	HVAC	Air Source Heat Pump <65 kBtuh	per unit	100%	157.69
Business Standard	All	HVAC	Air Source Heat Pump 65<135 kBtuh	per unit	100%	91.33
Business Standard	All	HVAC	Air Sourced Air Conditioner <65 kBtuh	per unit	100%	81.56
Business Standard	All	HVAC	Air Sourced Air Conditioner 65<135 kBtuh	per unit	100%	56.64

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			Measure Description						Sup
Program	Segment	End Use	Measure Name	Data Source	Date of Data Revision	Effective Start Date	Effective End Date	Cooling Degree Days (CDD)	Heating Degree Days (HDD)
Income-Eligible Weatherization	Single Family	HVAC - Shell	Increased Ceiling Insulation	AEG KCP&L Program Plan 2016-2018	7/29/2015	4/1/2016		1325	5249
Income-Eligible Weatherization	Single Family	HVAC - Shell	Increased Duct Insulation	AEG KCP&L Program Plan 2016-2018	7/29/2015	4/1/2016		1325	5249
Income-Eligible Weatherization	Single Family	HVAC - Shell	Increased Wall Insulation	AEG KCP&L Program Plan 2016-2018	7/29/2015	4/1/2016		1325	5249
Income-Eligible Multi-Family	Multi-Family	Lighting	Screw In - CFLs	AEG KCP&L Program Plan 2016-2018	7/29/2015	4/1/2016			
Income-Eligible Multi-Family	Multi-Family	Lighting	Screw In - LEDs	AEG KCP&L Program Plan 2016-2018	7/29/2015	4/1/2016	3/31/2017		
Income-Eligible Multi-Family	Multi-Family	Lighting	Screw In - LEDs	AEG KCP&L Program Plan 2016-2018	2/1/2017	4/1/2017			
Income-Eligible Multi-Family	Multi-Family	Hot Water	Low Flow Faucet Aerator	AEG KCP&L Program Plan 2016-2018	7/29/2015	4/1/2016			
Income-Eligible Multi-Family	Multi-Family	Hot Water	Pipe Insulated	AEG KCP&L Program Plan 2016-2018	7/29/2015	4/1/2016			
Income-Eligible Multi-Family	Multi-Family	Hot Water	Low Flow Showerhead	AEG KCP&L Program Plan 2016-2018	7/29/2015	4/1/2016			
Income-Eligible Multi-Family	Multi-Family	Hot Water	Water Heater Tank Wrap	AEG KCP&L Program Plan 2016-2018	7/29/2015	4/1/2016			
Income-Eligible Multi-Family	Multi-Family	Electronics	Smart Power Strip	AEG KCP&L Program Plan 2016-2018	7/29/2015	4/1/2016			
Income-Eligible Multi-Family	Multi-Family		LED Exit Sign	AEG KCP&L Program Plan 2016-2018	7/29/2015	4/1/2016			
	,	6	High Bay Fluorescent Fixture w/ HE Electronic Ballast (T5 >4		1,20,2020	., _,			
Income-Eligible Multi-Family	Multi-Family	Lighting	lamps)	AEG KCP&L Program Plan 2016-2018	7/29/2015	4/1/2016			
Income-Eligible Multi-Family	Multi-Family	Lighting	Low Wattage T8 Lamp	AEG KCP&L Program Plan 2016-2018	7/29/2015	4/1/2016			
Income-Eligible Multi-Family	Multi-Family		LED Flood Light (<15W)	AEG KCP&L Program Plan 2016-2018	7/29/2015	4/1/2016			
Income-Eligible Multi-Family	Multi-Family	Lighting	Screw In - CFLs	AEG KCP&L Program Plan 2016-2018	7/29/2015	4/1/2016			
Income-Eligible Multi-Family	Multi-Family	Lighting	Screw In - LEDs	AEG KCP&L Program Plan 2016-2018	7/29/2015	4/1/2016	3/31/2017		
Income-Eligible Multi-Family	Multi-Family		Screw In - LEDs	AEG KCP&L Program Plan 2016-2018	2/1/2017	4/1/2017	3/31/2017		
Residential Programmable Ther		HVAC	Advanced Programmable Communicating Thermostat	Meta Analysis of PCT programs in midwest	11/4/2015	4/1/2017			
Business Programmable Therm		HVAC	Advanced Programmable Communicating Thermostat	Meta Analysis of PCT programs in midwest	11/4/2015	4/1/2016			
Small Business Direct Install	Small C&I	Lighting	Photocell Occupancy Sensor		7/29/2015	4/1/2016	3/31/2017		
Small Business Direct Install	Small C&I			AEG KCP&L Program Plan 2016-2018			3/31/2017		
		Lighting	Interior Daylighting Controls Replacing No Controls	AEG KCP&L Program Plan 2016-2018	2/1/2017	4/1/2017			
Small Business Direct Install	Small C&I	Lighting	LED Exit Sign	AEG KCP&L Program Plan 2016-2018	7/29/2015	4/1/2016			
Small Business Direct Install	Small C&I	Lighting	High Bay Fluorescent Fixture w/ HE Electronic Ballast (T5 >4 lamps)	AEG KCP&L Program Plan 2016-2018	7/29/2015	4/1/2016	3/31/2017		
Small Business Direct Install	Small C&I	Lighting	High-Bay Fluorescent Fixture T5 > 4 Lamps w/ HE Electronic Ballast Replacing HID Fixture	AEG KCP&L Program Plan 2016-2018	2/1/2017	4/1/2017			
Small Business Direct Install	Small C&I	Lighting	Directional LED Bulb (≥15W)	AEG KCP&L Program Plan 2016-2018	7/29/2015	4/1/2016	3/31/2017		
Small Business Direct Install	Small C&I	Lighting	Directional LED Lamp replacing 71-110W Lamp	AEG KCP&L Program Plan 2016-2018	2/1/2017	4/1/2017			
Small Business Direct Install	Small C&I	Lighting	Lighting Optimization - Remove 4ft Lamp from T8 System	AEG KCP&L Program Plan 2016-2018	7/29/2015	4/1/2016	3/31/2017		
Small Business Direct Install	Small C&I	Lighting	Remove 4ft Lamp from T8 or T12 system	AEG KCP&L Program Plan 2016-2018	2/1/2017	4/1/2017			
Business Standard	All	Hot Water	Heat Pump Water Heater	AEG KCP&L Program Plan 2016-2018	7/29/2015	4/1/2016			
Business Standard	All	Hot Water	Low Flow Faucet Aerator	AEG KCP&L Program Plan 2016-2018	7/29/2015	4/1/2016			
Business Standard	All	Hot Water	Pipe Wrap/Insulation	AEG KCP&L Program Plan 2016-2018	7/29/2015	4/1/2016			
Business Standard	All	Hot Water	Pre-Rinse Spray Valves	AEG KCP&L Program Plan 2016-2018	7/29/2015	4/1/2016			
Business Standard	All	Pools	High Efficiency Pool Pump	AEG KCP&L Program Plan 2016-2018	7/29/2015	4/1/2016			
Business Standard	All	Pools	Pool Pump VSD	AEG KCP&L Program Plan 2016-2018	7/29/2015	4/1/2016			
Business Standard	All	Refrigeration	ENERGY STAR Beverage Machine	AEG KCP&L Program Plan 2016-2018	7/29/2015	4/1/2016			
Business Standard	All		High Efficiency Reach-In Refrigerator/Freezer	AEG KCP&L Program Plan 2016-2018	7/29/2015	4/1/2016			
Business Standard	All		Strip Curtains	AEG KCP&L Program Plan 2016-2018	7/29/2015	4/1/2016			
Business Standard	All		LED Refrigerator Case Light	AEG KCP&L Program Plan 2016-2018	7/29/2015	4/1/2016			
Business Standard	All	_	ECM Motors Walk-In Coolers & Freezers	AEG KCP&L Program Plan 2016-2018	7/29/2015	4/1/2016			
Business Standard	All		High Efficiency PTAC/PTHP	AEG KCP&L Program Plan 2016-2018	7/29/2015	4/1/2016		1325	5249
Business Standard	All	HVAC	Programmable Thermostat Controls	AEG KCP&L Program Plan 2016-2018	7/29/2015	4/1/2016		1323	3243
Business Standard	All		Air Source Heat Pump <65 kBtuh	AEG KCP&L Program Plan 2016-2018	7/29/2015	4/1/2016		1325	5249
Business Standard	All	_	Air Source Heat Pump 65<135 kBtuh	AEG KCP&L Program Plan 2016-2018	7/29/2015	4/1/2016		1325	5249
Business Standard	All		Air Sourced Air Conditioner <65 kBtuh	AEG KCP&L Program Plan 2016-2018	7/29/2015	4/1/2016		1325	5249
Dusiness Stanual ()	All		Air Sourced Air Conditioner <55 KBtuh	AEG KCP&L Program Plan 2016-2018 AEG KCP&L Program Plan 2016-2018	7/29/2015	4/1/2016		1325	5249

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	Measure Description porting Information							
Program	Program Segment End Use Measure Name		Measure Name	Quantity1	Quantity1 Description	Quantity2	Quantity2 Description	Quantity3
Income-Eligible Weatherization	Single Family	HVAC - Shell	Increased Ceiling Insulation	0.00046	Cooling Coefficient	0.00046	Heating Coefficient	
Income-Eligible Weatherization			Increased Duct Insulation		Cooling Coefficient	_	Heating Coefficient	
Income-Eligible Weatherization	· ,		Increased Wall Insulation		Cooling Coefficient		Heating Coefficient	
Income-Eligible Multi-Family	Multi-Family	Lighting	Screw In - CFLs		Waste Heat Factor		9	
Income-Eligible Multi-Family	Multi-Family	Lighting	Screw In - LEDs	1.04	Waste Heat Factor			
Income-Eligible Multi-Family	Multi-Family	Lighting	Screw In - LEDs	1.04	Waste Heat Factor			
Income-Eligible Multi-Family	Multi-Family	Hot Water	Low Flow Faucet Aerator	0.0919	kWh per gallon hot water	2.24	Minutes per person per day	1.25
Income-Eligible Multi-Family	Multi-Family	Hot Water	Pipe Insulated				, , , , , ,	
Income-Eligible Multi-Family	Multi-Family		Low Flow Showerhead	0.0919	kWh per gallon hot water	3.75	Minutes per person per day	1.25
Income-Eligible Multi-Family	Multi-Family	Hot Water	Water Heater Tank Wrap		, and the second		, , , , , , , , , , , , , , , , , , , ,	
Income-Eligible Multi-Family	Multi-Family	Electronics	Smart Power Strip					
Income-Eligible Multi-Family	Multi-Family	Lighting	LED Exit Sign	1.00	Waste Heat Factor	1.00	Waste Heat Factor	
	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		High Bay Fluorescent Fixture w/ HE Electronic Ballast (T5 >4					
Income-Eligible Multi-Family	Multi-Family	Lighting	lamps)	1.41	Waste Heat Factor	1.34	Waste Heat Factor	
Income-Eligible Multi-Family	Multi-Family	Lighting	Low Wattage T8 Lamp	1.41	Waste Heat Factor	_	Waste Heat Factor	
Income-Eligible Multi-Family	Multi-Family	Lighting	LED Flood Light (<15W)	1.00	Waste Heat Factor		Waste Heat Factor	
Income-Eligible Multi-Family	Multi-Family	Lighting	Screw In - CFLs		Waste Heat Factor		Waste Heat Factor	
Income-Eligible Multi-Family	Multi-Family	Lighting	Screw In - LEDs	1.41	Waste Heat Factor		Waste Heat Factor	
Income-Eligible Multi-Family	Multi-Family	Lighting	Screw In - LEDs		Waste Heat Factor		Waste Heat Factor	
Residential Programmable Ther		HVAC	Advanced Programmable Communicating Thermostat	1.41	waste fleat factor	1.54	Waste freat factor	
Business Programmable Therm		HVAC	Advanced Programmable Communicating Thermostat					
Small Business Direct Install	Small C&I	Lighting	Photocell Occupancy Sensor	1 //1	Waste Heat Factor	1 2/	Waste Heat Factor	27%
Small Business Direct Install	Small C&I	0 0	Interior Daylighting Controls Replacing No Controls	1.41	Waste Heat Factor	_	Waste Heat Factor	27%
Small Business Direct Install	Small C&I	Lighting	LED Exit Sign		Waste Heat Factor	_	Waste Heat Factor	27/0
Sman Business Direct mstall	Siliali Cal	Lighting	High Bay Fluorescent Fixture w/ HE Electronic Ballast (T5 >4	1.00	Waste Heat Factor	1.00	Waste fieat Factor	
Small Business Direct Install	Small COL	Lighting		1 41	Wasta Heat Faster	1 24	Wasta Heat Faster	
Small Business Direct Install	Small C&I	Lighting	lamps) High-Bay Fluorescent Fixture T5 > 4 Lamps w/ HE Electronic	1.41	Waste Heat Factor	1.54	Waste Heat Factor	
Small Business Direct Install	Small C&I	l indution	· ·	1 11	Waste Heat Factor	1.24	Waste Heat Factor	
		Lighting	Ballast Replacing HID Fixture Directional LED Bulb (≥15W)	1			Waste Heat Factor	
Small Business Direct Install	Small C&I	Lighting	, ,	1.41				
Small Business Direct Install	Small C&I	Lighting	Directional LED Lamp replacing 71-110W Lamp		Waste Heat Factor	_	Waste Heat Factor	
Small Business Direct Install	Small C&I	Lighting	Lighting Optimization - Remove 4ft Lamp from T8 System	1.41	Waste Heat Factor	_	Waste Heat Factor	
Small Business Direct Install	Small C&I	Lighting	Remove 4ft Lamp from T8 or T12 system	1.41			Waste Heat Factor	
Business Standard	All	Hot Water	Heat Pump Water Heater		gallons used per day	_	Water Heating Coefficient	
Business Standard	All	Hot Water	Low Flow Faucet Aerator	0.0919	kWh per gallon hot water	8.67	gallons per day	
Business Standard	All	Hot Water	Pipe Wrap/Insulation	0.0010	land II I I	0.1-0		
Business Standard	All	Hot Water	Pre-Rinse Spray Valves	0.0919	kWh per gallon hot water	94.72	gallons per day	
Business Standard	All	Pools	High Efficiency Pool Pump	1				+
Business Standard	All	Pools	Pool Pump VSD					
Business Standard	All		ENERGY STAR Beverage Machine					
Business Standard	All		High Efficiency Reach-In Refrigerator/Freezer		Refrigerated Volume (cu ft)	-		-
Business Standard	All		Strip Curtains		sqft			
Business Standard	All		LED Refrigerator Case Light	40%	Savings Factor			
Business Standard	All		ECM Motors Walk-In Coolers & Freezers		- 0		- 50	1
Business Standard	All	HVAC	High Efficiency PTAC/PTHP	12,000	Btu/hr	11,536	Coefficient	0.001794835
Business Standard	All	HVAC	Programmable Thermostat Controls					
Business Standard	All	HVAC	Air Source Heat Pump <65 kBtuh	12,000	•		Coefficient	0.00410683
Business Standard	All	HVAC	Air Source Heat Pump 65<135 kBtuh	12,000	•		Coefficient	0.001794835
Business Standard	All	HVAC	Air Sourced Air Conditioner <65 kBtuh	12,000	•		Coefficient	
Business Standard	All	HVAC	Air Sourced Air Conditioner 65<135 kBtuh	12,000	Btu/hr	1,071	Coefficient	

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Count:	162		Measure Description	
Program	Segment	End Use	Measure Name	Quantity3 Description
Income-Eligible Weatherization	Single Family	HVAC - Shell	Increased Ceiling Insulation	
Income-Eligible Weatherization	Single Family	HVAC - Shell	Increased Duct Insulation	
Income-Eligible Weatherization	Single Family	HVAC - Shell	Increased Wall Insulation	
Income-Eligible Multi-Family	Multi-Family	Lighting	Screw In - CFLs	
Income-Eligible Multi-Family	Multi-Family	Lighting	Screw In - LEDs	
Income-Eligible Multi-Family	Multi-Family	Lighting	Screw In - LEDs	
Income-Eligible Multi-Family	Multi-Family	Hot Water	Low Flow Faucet Aerator	Persons per household
Income-Eligible Multi-Family	Multi-Family	Hot Water	Pipe Insulated	
Income-Eligible Multi-Family	Multi-Family	Hot Water	Low Flow Showerhead	Persons per household
Income-Eligible Multi-Family	Multi-Family	Hot Water	Water Heater Tank Wrap	
Income-Eligible Multi-Family	Multi-Family	Electronics	Smart Power Strip	
Income-Eligible Multi-Family	Multi-Family	Lighting	LED Exit Sign	
-			High Bay Fluorescent Fixture w/ HE Electronic Ballast (T5 >4	
Income-Eligible Multi-Family	Multi-Family	Lighting	lamps)	
Income-Eligible Multi-Family		Lighting	Low Wattage T8 Lamp	
Income-Eligible Multi-Family		Lighting	LED Flood Light (<15W)	
Income-Eligible Multi-Family		Lighting	Screw In - CFLs	
Income-Eligible Multi-Family	Multi-Family	Lighting	Screw In - LEDs	
Income-Eligible Multi-Family		Lighting	Screw In - LEDs	
Residential Programmable Ther		HVAC	Advanced Programmable Communicating Thermostat	
Business Programmable Thermo		HVAC	Advanced Programmable Communicating Thermostat	
Small Business Direct Install	Small C&I	Lighting	Photocell Occupancy Sensor	ESF
Small Business Direct Install	Small C&I	Lighting	Interior Daylighting Controls Replacing No Controls	ESF
Small Business Direct Install	Small C&I	Lighting	LED Exit Sign	
Small Business Direct Install	Small C&I	Lighting	High Bay Fluorescent Fixture w/ HE Electronic Ballast (T5 >4 lamps)	
Small Business Direct Install	Small C&I	Lighting	High-Bay Fluorescent Fixture T5 > 4 Lamps w/ HE Electronic Ballast Replacing HID Fixture	
Small Business Direct Install	Small C&I	Lighting	Directional LED Bulb (≥15W)	+
Small Business Direct Install				+
	Small C&I	Lighting	Directional LED Lamp replacing 71-110W Lamp	+
Small Business Direct Install		Lighting	Lighting Optimization - Remove 4ft Lamp from T8 System Remove 4ft Lamp from T8 or T12 system	_
Small Business Direct Install		Lighting	Heat Pump Water Heater	
Business Standard Business Standard		Hot Water Hot Water	Low Flow Faucet Aerator	+
		Hot Water	Pipe Wrap/Insulation	+
Business Standard		Hot Water Hot Water	Pre-Rinse Spray Valves	+
Business Standard			High Efficiency Pool Pump	+
Business Standard		Pools		
Business Standard		Pools	Pool Pump VSD	
Business Standard	All		ENERGY STAR Beverage Machine	+
Business Standard		_	High Efficiency Reach-In Refrigerator/Freezer	_
Business Standard			Strip Curtains	
Business Standard			LED Refrigerator Case Light	
Business Standard			ECM Motors Walk-In Coolers & Freezers	LICES :
Business Standard		HVAC	High Efficiency PTAC/PTHP	HSPF improvement factor
Business Standard		HVAC	Programmable Thermostat Controls	<u> </u>
Business Standard		HVAC	Air Source Heat Pump <65 kBtuh	HSPF improvement factor
Business Standard		HVAC	Air Source Heat Pump 65<135 kBtuh	HSPF improvement factor
Business Standard		HVAC	Air Sourced Air Conditioner <65 kBtuh	
Business Standard	All	HVAC	Air Sourced Air Conditioner 65<135 kBtuh	

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Business Standard

HVAC

occupancy

 Valid for Program Implementation Dates:
 Early 2016
 to
 36 months following

 Search using Drop-down Filters in Headers
 Column Label:
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Count: 162 Column Equation: see column R = H / L Measure Description Gross Measure Valu Incremental **Electric Energy** Nameplate Peak **Primary End Use Unit Definition Measure Cost** Savings (Annual **Demand Savings** Coincidence Program Segment **Measure Name** Notes Key (\$/Unit) kWh/unit) (kW/unit) Factor **Business Standard** ΑII **HVAC** Air Sourced Air Conditioner 135<240 kBtuh 0092 \$100.00 80.7362 0.081 81% per ton ΑII HVAC \$100.00 70.6853 0.071 81% **Business Standard** Air Sourced Air Conditioner >240 kBtuh 0093 per ton All \$40.0 143.684 0.04 usiness Standard ighting Directional LED Bulb (<15W) 0096 er lamp 669 Directional LED Lamp replacing 50-70W Lamp **Business Standard** ΑII Lighting 0096.1 per lamp \$40.00 143.6846 0.044 66% usiness Standard Lighting Directional LED Bulb (≥15W) 0097 per lamp \$50 230.766 0.07 669 **Business Standard** ΑII Lighting Directional LED Lamp replacing 71-110W Lamp 0097.1 per lamp \$50.0 230.7662 0.071 66% High Bay Fluorescent Fixture (HP T8 >4 lamps) \$200.0 **Business Standard** ighting 0098 oer fixture 1,084.165 0.33 66% High Performance High-Bay Fluorescent Fixture T8 > 4 Lamps Replacing HID Fixture 0098.1 0.334 66% Business Standard Lighting per fixture \$200.00 1,084.1659 **Business Standard** ΑII Lighting High Bay Fluorescent Fixture (HP T8 ≤4 lamps) 0099 per fixture \$225.00 648.7579 0.200 66% High Bay Fluorescent Fixture w/ HE Electronic Ballast (T5 >4 **Business Standard** ighting 0100 er fixture \$100.0 701.006 0.216 669 High-Bay Fluorescent Fixture T5 > 4 Lamps w/ HE Electronic **Business Standard** ΑII Lighting Ballast Replacing HID Fixture 0100.1 per fixture \$100.00 701.0069 0.216 66% High Bay Fluorescent Fixture w/ HE Electronic Ballast (T5 ≤4 66% Business Standard ighting 0101 er fixture \$100.0 404.929 0.125 High-Bay Fluorescent Fixture T5 ≤ 4 Lamps w/ HE Electronic **Business Standard** ΑII Lighting Ballast Replacing HID Fixture 0101.1 per fixture \$100.00 404.9294 0.125 66% \$30.00 **Business Standard** All Lighting LED Exit Sign 0102 per lamp 78.8400 0.009 100% **Business Standard** ΑII Lighting LED Flood Light (<15W) 0103 per lamp \$35.00 210.8290 0.043 0% All LED Flood Light (≥15W) 0104 \$45.00 236.3246 0.048 0% Business Standard Lighting per lamp All 66% Business Standard Lighting LED Recessed Fixture (1 ft x 4 ft) 0106 per fixture \$36.17 116.6893 0.036 ΑII Business Standard Lighting LED Recessed Fixture (2 ft x 2 ft) 0107 per fixture \$22.55 70.1007 0.022 66% All 0108 149.7804 0.046 66% **Business Standard** Lighting LED Recessed Fixture (2 ft x 4 ft) per fixture \$55.50 ΑII 0109 \$12.0 121.914 0.03 66% Business Standard Lighting Lighting Optimization - Remove 4ft Lamp from T8 System per lamp ΑII 0109.1 \$12.00 121.9142 0.038 66% Business Standard Lighting Remove 4ft Lamp from T8 or T12 system per lamp usiness Standard ighting ighting Optimization - Remove 8ft Lamp from T8 System 0110 er lamp \$16.0 252.536 0.07 66% All Business Standard Lighting Remove 8ft Lamp from T8 or T12 System 0110.1 per lamp \$16.00 252.5366 0.078 66% usiness Standard ighting Omnidirectional LED Bulb (<10W) 0112 er lamp \$28.7 84.469 0.02 66% All **Business Standard** Lighting Omnidirectional LED Lamp replacing 40-60W Lamp 0112.1 per lamp \$28.75 84.4692 0.026 66% 130.187 0.04 66% usiness Standard ighting. Omnidirectional LED Bulb (≥10W) 0113 per lamp \$38.7 All Omnidirectional LED Lamp replacing 61-100W Lamp \$38.75 130.1870 0.040 **Business Standard** Lighting 0113.1 per lamp 66% Photocell Occupancy Sensor 0114 \$66.0 692.6340 0.213 66% usiness Standard Lighting er sensor All Interior Daylighting Controls Replacing No Controls 0114.1 \$66.00 692.6340 0.213 66% **Business Standard** Lighting per sensor usiness Standard ΑII Wall-Mount Occupancy Sensor 0115 \$42.0 457.178 0.143 66% Lighting per sensor ΑII Occupancy or Vacancy Sensor Replacing No Controls 0115.1 \$42.00 457.1784 0.141 66% **Business Standard** Lighting per sensor High Volume Low Speed Fans (20ft Diameter) **Business Standard** ΑII Pumps/Fans 0116 per Fan \$4.150.00 6.577.0000 All Business Standard Pumps/Fans High Volume Low Speed Fans (22ft Diameter) 0117 per Fan \$4,180.00 8,543.0000 ΑII High Volume Low Speed Fans (24ft Diameter) 0118 \$4,225.00 10,018.0000 **Business Standard** Pumps/Fans per Fan All 0119 1,086.6380 Business Standard Pumps/Fans | Compressed Air - Engineered Nozzle 1/4" per unit \$57.00 All 0120 \$42.00 393.4380 **Business Standard** Pumps/Fans Compressed Air - Engineered Nozzle 1/8" per unit Business Standard All Pumps/Fans Compressed Air - No Loss Condensate Drain/Valve 0121 \$700.00 1.969.6500 per unit All **Business Standard** Variable Speed Drive Compressor - 1 shift weekdays 0122 per HP \$140.37 329.0000 Pumps/Fans Business Standard All Pumps/Fans Variable Speed Drive Compressor - 2 shift weekdays 0123 per HP \$140.37 658.0000 **Business Standard** ΑII Pumps/Fans Variable Speed Drive Compressor - 3 shift weekdays 0124 per HP \$140.3 987.0000 Variable Speed Drive Compressor - 3 shift weekdays plus **Business Standard** 0125 \$140.37 1,385.3000 Pumps/Fans per HP Advanced Rooftop Unit Controls, 2000-4000 annual hours

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\$400.00

per ton

420,0000

Published 3/4/2016

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Measure Description **Coincident Peak** Measure Annual Measure **End Use Demand Savings Measure Definition** Efficiency **Program** Segment **Measure Name Operating Hours** Life (Years) (kW/unit) Value **Business Standard** ΑII **HVAC** Air Sourced Air Conditioner 135<240 kBtuh 0.0653 1,000 EER 11.7 15 ΑII HVAC Air Sourced Air Conditioner >240 kBtuh 0.0571 1.000 15 EER **Business Standard** 10.5 All Directional LED Bulb (<15W) 0.0292 3,088 LED (watts) usiness Standard Lighting 11 12.0 **Business Standard** ΑII Lighting Directional LED Lamp replacing 50-70W Lamp 0.0292 3.088 11 LED (watts) 12.0 Lighting usiness Standard Directional LED Bulb (≥15W) 0.046 3.088 11 LED (watts) 22.0 **Business Standard** ΑII Lighting Directional LED Lamp replacing 71-110W Lamp 0.0469 3.088 11 LED (watts) 22.0 High Bay Fluorescent Fixture (HP T8 >4 lamps) 0.220 3,088 **Business Standard** ΑII ighting 15 High Bay T8 (>4 lamps, wattage) 206.0 High Performance High-Bay Fluorescent Fixture T8 > 4 Lamps Replacing HID Fixture 0.2202 3,088 Business Standard Lighting 15 High Bay T8 (>4 lamps, wattage) 206.0 High Bay Fluorescent Fixture (HP T8 ≤4 lamps) **Business Standard** ΑII Lighting 0.1318 3.088 15 High Bay T8 (≤4 lamps, wattage) 146.0 High Bay Fluorescent Fixture w/ HE Electronic Ballast (T5 >4 **Business Standard** ighting 0.142 3.088 15 High Bay T5 (>4 lamps, wattage) 295.0 High-Bay Fluorescent Fixture T5 > 4 Lamps w/ HE Electronic **Business Standard** ΑII Lighting Ballast Replacing HID Fixture 0.1424 3,088 15 High Bay T5 (>4 lamps, wattage) 295.0 High Bay Fluorescent Fixture w/ HE Electronic Ballast (T5 ≤4 3,088 **Business Standard** ighting 0.0822 High Bay T5 (≤4 lamps, wattage) 117.0 High-Bay Fluorescent Fixture T5 ≤ 4 Lamps w/ HE Electronic **Business Standard** ΑII Lighting Ballast Replacing HID Fixture 0.0822 3,088 15 High Bay T5 (≤4 lamps, wattage) 117.0 **Business Standard** All Lighting LED Exit Sign 0.0090 8.760 16 LED (watts) 2.0 **Business Standard** ΑII Lighting LED Flood Light (<15W) 0.0000 4,903 10 LED (watts) 8.7 All **Business Standard** LED Flood Light (≥15W) 0.0000 4,903 10 LED (watts) 16.20 Lighting All 0.0237 32 **Business Standard** Lighting LED Recessed Fixture (1 ft x 4 ft) 3.088 11 Linear style LED (watts) ΑII 3.088 Business Standard Lighting LED Recessed Fixture (2 ft x 2 ft) 0.0142 11 Linear style LED (watts) 45 All 0.0304 3,088 **Business Standard** Lighting LED Recessed Fixture (2 ft x 4 ft) 11 Linear style LED (watts) 54 Lighting Optimization - Remove 4ft Lamp from T8 System usiness Standard ΑII 0.0248 3.088 11 0 Lighting Remove T8 All 0.0248 3,088 11 **Business Standard** Lighting Remove 4ft Lamp from T8 or T12 system Remove T8 0 **Business Standard** ighting. Lighting Optimization - Remove 8ft Lamp from T8 System 0.051 3.088 11 Remove T8 0 All **Business Standard** Lighting Remove 8ft Lamp from T8 or T12 System 0.0513 3,088 11 Remove T8 0 usiness Standard ighting Omnidirectional LED Bulb (<10W) 0.017 3.088 ED (watts) 10 All **Business Standard** Lighting Omnidirectional LED Lamp replacing 40-60W Lamp 0.0172 3,088 8 LED (watts) 10 Omnidirectional LED Bulb (≥10W) 0.026 3,088 LED (watts) 23 **Business Standard** ighting. 8 All Omnidirectional LED Lamp replacing 61-100W Lamp 0.0264 3.088 23 **Business Standard** Lighting 8 LED (watts) 3.088 Lighting 0.1407 8 587 usiness Standard Photocell Occupancy Sensor Photocell Occupancy Sensor All Interior Daylighting Controls Replacing No Controls 0.1407 3,088 587 **Business Standard** Lighting 8 Photocell Occupancy Sensor **Business Standard** ΑII Wall-Mount Occupancy Sensor 0.0929 3.088 Wall-Mount Occupancy Sensor 350 Lighting 8 ΑII Occupancy or Vacancy Sensor Replacing No Controls 0.0929 3,088 8 Wall-Mount Occupancy Sensor 350 **Business Standard** Lighting High Volume Low Speed Fans (20ft Diameter) **Business Standard** ΑII Pumps/Fans 2.4000 10 All **Business Standard** Pumps/Fans High Volume Low Speed Fans (22ft Diameter) 3.1000 10 ΑII High Volume Low Speed Fans (24ft Diameter) 3.7000 10 **Business Standard** Pumps/Fans All 0.5110 **Business Standard** Pumps/Fans | Compressed Air - Engineered Nozzle 1/4" 15 All 0.1630 15 **Business Standard** Pumps/Fans | Compressed Air - Engineered Nozzle 1/8" Business Standard All Pumps/Fans | Compressed Air - No Loss Condensate Drain/Valve 0.3000 15 All **Business Standard** Pumps/Fans Variable Speed Drive Compressor - 1 shift weekdays 0.1582 10 Business Standard All Pumps/Fans Variable Speed Drive Compressor - 2 shift weekdays 0.1582 10 Business Standard ΑII Pumps/Fans Variable Speed Drive Compressor - 3 shift weekdays 0.1582 10 Variable Speed Drive Compressor - 3 shift weekdays plus **Business Standard** ΑII 0.1582 Pumps/Fans | weekends 10 Advanced Rooftop Unit Controls, 2000-4000 annual hours ΑII 0.1500 **Business Standard** HVAC occupancy 15

ndicates default plan values that can be adjusted for unique installations.

Published 3/4/2016 unique installations.

Valid for Program Implementation Dates: Early 2016 to

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			Measure Description			Algorithms
Program	Segment	End Use	Measure Name	Baseline Definition	Baseline Efficiency Value	Electric Energy Savings Algorithm
Business Standard	All	HVAC	Air Sourced Air Conditioner 135<240 kBtuh	EER	11	=ROUND((1/R103-1/P103)*AA103*AC103/AE103,4)
Business Standard	All	HVAC	Air Sourced Air Conditioner >240 kBtuh	EER	10	=ROUND((1/R104-1/P104)*AA104*AC104/AE104,4)
Business Standard	All	Lighting	Directional LED Bulb (<15W)	Incandescent (watts)	45.0	=ROUND((R105-P105)/1000*M105*AC105,4)
Business Standard	All	Lighting	Directional LED Lamp replacing 50-70W Lamp	Incandescent (watts)	45.0	=ROUND((R106-P106)/1000*M106*AC106,4)
Business Standard	All	Lighting	Directional LED Bulb (≥15W)	Incandescent (watts)	75.0	=ROUND((R107-P107)/1000*M107*AC107,4)
Business Standard	All	Lighting	Directional LED Lamp replacing 71-110W Lamp	Incandescent (watts)	75.0	=ROUND((R108-P108)/1000*M108*AC108,4)
Business Standard	All	Lighting	High Bay Fluorescent Fixture (HP T8 >4 lamps)	Metal Halide (watts)	455.0	=ROUND((R109-P109)/1000*M109*AC109,4)
			High Performance High-Bay Fluorescent Fixture T8 > 4 Lamps			
Business Standard	All	Lighting	Replacing HID Fixture	Metal Halide (watts)	455.0	=ROUND((R110-P110)/1000*M110*AC110,4)
Business Standard	All	Lighting	High Bay Fluorescent Fixture (HP T8 ≤4 lamps)	Metal Halide (watts)	295.0	=ROUND((R111-P111)/1000*M111*AC111,4)
			High Bay Fluorescent Fixture w/ HE Electronic Ballast (T5 >4			
Business Standard	All	Lighting	lamps)	Metal Halide (watts)	456.0	=ROUND((R112-P112)/1000*M112*AC112,4)
			High-Bay Fluorescent Fixture T5 > 4 Lamps w/ HE Electronic			
Business Standard	All	Lighting	Ballast Replacing HID Fixture	Metal Halide (watts)	456.0	=ROUND((R113-P113)/1000*M113*AC113,4)
			High Bay Fluorescent Fixture w/ HE Electronic Ballast (T5 ≤4			
Business Standard	All	Lighting	lamps)	Metal Halide (watts)	210.0	=ROUND((R114-P114)/1000*M114*AC114,4)
			High-Bay Fluorescent Fixture T5 ≤ 4 Lamps w/ HE Electronic			
Business Standard	All	Lighting	Ballast Replacing HID Fixture	Metal Halide (watts)	210.0	=ROUND((R115-P115)/1000*M115*AC115,4)
Business Standard	All	Lighting	LED Exit Sign	Fluorescent (watts)	11.0	=ROUND((R116-P116)/1000*M116*AC116,4)
Business Standard	All	Lighting	LED Flood Light (<15W)	Metal Halide (watts)	51.7	=ROUND((R117-P117)/1000*M117*AC117,4)
Business Standard	All	Lighting	LED Flood Light (≥15W)	Metal Halide (watts)	64.40	=ROUND((R118-P118)/1000*M118*AC118,4)
Business Standard	All	Lighting	LED Recessed Fixture (1 ft x 4 ft)	Standard T8 (watts)	59	=ROUND((R119-P119)/1000*M119*AC119,4)
Business Standard	All	Lighting	LED Recessed Fixture (2 ft x 2 ft)	T8 U-tube (watts)	61	=ROUND((R120-P120)/1000*M120*AC120,4)
Business Standard	All	Lighting	LED Recessed Fixture (2 ft x 4 ft)	Standard T8 (watts)	88	=ROUND((R121-P121)/1000*M121*AC121,4)
Business Standard	All	Lighting	Lighting Optimization - Remove 4ft Lamp from T8 System	T8 4 ft (watts)	28	=ROUND((R122-P122)/1000*M122*AC122,4)
Business Standard	All	Lighting	Remove 4ft Lamp from T8 or T12 system	T8 4 ft (watts)	28	=ROUND((R123-P123)/1000*M123*AC123,4)
Business Standard	All	Lighting	Lighting Optimization - Remove 8ft Lamp from T8 System	T8 8 ft (watts)	58	=ROUND((R124-P124)/1000*M124*AC124,4)
Business Standard	All	Lighting	Remove 8ft Lamp from T8 or T12 System	T8 8 ft (watts)	58	=ROUND((R125-P125)/1000*M125*AC125,4)
Business Standard	All	Lighting	Omnidirectional LED Bulb (<10W)	EISA tier 1 compliant Halogen (watts)	29	=ROUND((R126-P126)/1000*M126*AC126,4)
Business Standard	All	Lighting	Omnidirectional LED Lamp replacing 40-60W Lamp	EISA tier 1 compliant Halogen (watts)	29	=ROUND((R127-P127)/1000*M127*AC127,4)
Business Standard	All	Lighting	Omnidirectional LED Bulb (≥10W)	EISA tier 1 compliant Halogen (watts)	53	=ROUND((R128-P128)/1000*M128*AC128,4)
Business Standard	All	Lighting	Omnidirectional LED Lamp replacing 61-100W Lamp	EISA tier 1 compliant Halogen (watts)	53	=ROUND((R129-P129)/1000*M129*AC129,4)
Business Standard	All	Lighting	Photocell Occupancy Sensor	No Control		=ROUND(P130/1000*AG130*M130*AC130,4)
Business Standard	All	Lighting	Interior Daylighting Controls Replacing No Controls	No Control		=ROUND(P131/1000*AG131*M131*AC131,4)
Business Standard	All	Lighting	Wall-Mount Occupancy Sensor	No Control		=ROUND(P132/1000*AG132*M132*AC132,4)
Business Standard	All	Lighting	Occupancy or Vacancy Sensor Replacing No Controls	No Control		=ROUND(P133/1000*AG133*M133*AC133,4)
Business Standard	All		High Volume Low Speed Fans (20ft Diameter)			=ROUND(6577,4)
Business Standard	All		High Volume Low Speed Fans (22ft Diameter)			=ROUND(8543,4)
Business Standard	All	Pumps/Fans	High Volume Low Speed Fans (24ft Diameter)			=ROUND(10018,4)
Business Standard	All	Pumps/Fans	Compressed Air - Engineered Nozzle 1/4"			=ROUND(1086.638,4)
Business Standard	All		Compressed Air - Engineered Nozzle 1/8"			=ROUND(393.438,4)
Business Standard	All	Pumps/Fans	Compressed Air - No Loss Condensate Drain/Valve			=ROUND(1969.65,4)
Business Standard	All	Pumps/Fans	Variable Speed Drive Compressor - 1 shift weekdays			=ROUND(329,4)
Business Standard	All	Pumps/Fans	Variable Speed Drive Compressor - 2 shift weekdays			=ROUND(658,4)
Business Standard	All		Variable Speed Drive Compressor - 3 shift weekdays			=ROUND(987,4)
		1	Variable Speed Drive Compressor - 3 shift weekdays plus			V / /
Business Standard	All	Pumps/Fans				=ROUND(1385.3,4)
		2	Advanced Rooftop Unit Controls, 2000-4000 annual hours			(, .,
Business Standard	All	HVAC	occupancy			=ROUND(420,4)

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Count: 162

			Measure Description				
Program	Segment	End Use	Measure Name	Incentive Definition	Net to Gross Ratio (NTG)	Net Electric Energy Savings (Annual kWh/unit)	
Business Standard	All	HVAC	Air Sourced Air Conditioner 135<240 kBtuh	per unit	100%	80.74	
Business Standard	All	HVAC	Air Sourced Air Conditioner >240 kBtuh	per unit	100%	70.69	
Business Standard	All	Lighting	Directional LED Bulb (<15W)	per unit	100%	143.6	
Business Standard	All	Lighting	Directional LED Lamp replacing 50-70W Lamp	per unit	100%	143.6	
Business Standard	All	Lighting	Directional LED Bulb (≥15W)	per unit	100%	230.7	
Business Standard	All	Lighting	Directional LED Lamp replacing 71-110W Lamp	per unit	100%	230.7	
Business Standard	All	Lighting	High Bay Fluorescent Fixture (HP T8 >4 lamps) High Performance High-Bay Fluorescent Fixture T8 > 4 Lamps	per unit	100%	1084.1	
Business Standard	All	Lighting	Replacing HID Fixture	per unit	100%	1084.1	
Business Standard	All	Lighting	High Bay Fluorescent Fixture (HP T8 ≤4 lamps)	per unit	100%	648.7	
			High Bay Fluorescent Fixture w/ HE Electronic Ballast (T5 >4	<u> </u>	1000/	=04.0	
Business Standard	All	Lighting	lamps)	per unit	100%	701.0	
D Cl d d	A.II	12.1.1.	High-Bay Fluorescent Fixture T5 > 4 Lamps w/ HE Electronic		4000/	=04.0	
Business Standard	All	Lighting	Ballast Replacing HID Fixture	per unit	100%	701.03	
Desiron Chandred	All	lishtis -	High Bay Fluorescent Fixture w/ HE Electronic Ballast (T5 ≤4		1000/	404.0	
Business Standard	All	Lighting	lamps)	per unit	100%	404.93	
D. dans Charles	A.11	12.1.12	High-Bay Fluorescent Fixture T5 ≤ 4 Lamps w/ HE Electronic		4000/	40.4.0	
Business Standard	All	Lighting	Ballast Replacing HID Fixture	per unit	100%	404.93	
Business Standard	All	Lighting	LED Exit Sign	per unit	100%	78.8	
Business Standard	All	Lighting	LED Flood Light (<15W)	per unit	100%	210.83	
Business Standard	All	Lighting	LED Flood Light (≥15W)	per unit	100%	236.3	
Business Standard	All	Lighting	LED Recessed Fixture (1 ft x 4 ft)	per unit	100%	116.69	
Business Standard	All	Lighting	LED Recessed Fixture (2 ft x 2 ft)	per unit	100%	70.10	
Business Standard	All	Lighting	LED Recessed Fixture (2 ft x 4 ft)	per unit	100%	149.7	
Business Standard	All	Lighting	Lighting Optimization - Remove 4ft Lamp from T8 System	per unit	100%	121.9	
Business Standard	All	Lighting	Remove 4ft Lamp from T8 or T12 system	per unit	100%	121.9	
Business Standard	All	Lighting	Lighting Optimization - Remove 8ft Lamp from T8 System	per unit	100%	252.5	
Business Standard	All	Lighting	Remove 8ft Lamp from T8 or T12 System	per unit	100%	252.5	
Business Standard	All	Lighting	Omnidirectional LED Bulb (<10W)	per unit	100%	84.4	
Business Standard	All	Lighting	Omnidirectional LED Lamp replacing 40-60W Lamp	per unit	100%	84.4	
Business Standard	All	Lighting	Omnidirectional LED Bulb (≥10W)	per unit	100%	130.1	
Business Standard	All	Lighting	Omnidirectional LED Lamp replacing 61-100W Lamp	per unit	100%	130.1	
Business Standard	All	Lighting	Photocell Occupancy Sensor	per unit	100%	692.6	
Business Standard	All	Lighting	Interior Daylighting Controls Replacing No Controls	per unit	100%	692.6	
Business Standard	All	Lighting	Wall-Mount Occupancy Sensor	per unit	100%	457.1	
Business Standard	All	Lighting	Occupancy or Vacancy Sensor Replacing No Controls	per unit	100%	457.13	
Business Standard	All	- '	High Volume Low Speed Fans (20ft Diameter)		100%	6,577.0	
Business Standard	All	- '	High Volume Low Speed Fans (22ft Diameter)		100%	8,543.0	
Business Standard	All	<u> </u>	High Volume Low Speed Fans (24ft Diameter)		100%	10,018.0	
Business Standard	All	Pumps/Fans	Compressed Air - Engineered Nozzle 1/4"		100%	1,086.6	
Business Standard	All	Pumps/Fans	Compressed Air - Engineered Nozzle 1/8"		100%	393.4	
Business Standard	All	Pumps/Fans	Compressed Air - No Loss Condensate Drain/Valve		100%	1,969.6	
Business Standard	All	Pumps/Fans			100%	329.0	
Business Standard	All	Pumps/Fans	Variable Speed Drive Compressor - 2 shift weekdays		100%	658.0	
Business Standard	All	Pumps/Fans	Variable Speed Drive Compressor - 3 shift weekdays		100%	987.0	
			Variable Speed Drive Compressor - 3 shift weekdays plus				
Business Standard	All	Pumps/Fans	weekends		100%	1,385.3	
			Advanced Rooftop Unit Controls, 2000-4000 annual hours				
Business Standard	All	HVAC	occupancy		100%	420.0	

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 Link to HDD

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Measure Description Date of Data Effective Start | Effective End **Cooling Degree Heating Degree End Use Data Source Program** Segment **Measure Name** Revision Days (CDD) Days (HDD) 4/1/2016 **Business Standard** ΑII **HVAC** Air Sourced Air Conditioner 135<240 kBtuh AEG KCP&L Program Plan 2016-2018 7/29/2015 1325 5249 ΑII HVAC Air Sourced Air Conditioner >240 kBtuh AEG KCP&L Program Plan 2016-2018 7/29/2015 4/1/2016 1325 5249 **Business Standard** All Directional LED Bulb (<15W) AEG KCP&L Program Plan 2016-2018 7/29/2015 4/1/2016 3/31/2017 usiness Standard ighting **Business Standard** ΑII Lighting Directional LED Lamp replacing 50-70W Lamp AEG KCP&L Program Plan 2016-2018 2/1/2017 4/1/2017 Lighting usiness Standard Directional LED Bulb (≥15W) AEG KCP&L Program Plan 2016-2018 7/29/2015 4/1/2016 3/31/2017 **Business Standard** ΑII Lighting Directional LED Lamp replacing 71-110W Lamp AEG KCP&L Program Plan 2016-2018 2/1/2017 4/1/2017 High Bay Fluorescent Fixture (HP T8 >4 lamps) AEG KCP&L Program Plan 2016-2018 3/31/2017 **Business Standard** ΑII ighting 7/29/2015 4/1/2016 High Performance High-Bay Fluorescent Fixture T8 > 4 Lamps Replacing HID Fixture 2/1/2017 4/1/2017 Business Standard Lighting AEG KCP&L Program Plan 2016-2018 All High Bay Fluorescent Fixture (HP T8 ≤4 lamps) **Business Standard** Lighting AEG KCP&L Program Plan 2016-2018 7/29/2015 4/1/2016 High Bay Fluorescent Fixture w/ HE Electronic Ballast (T5 >4 **Business Standard** ΔII ighting AEG KCP&L Program Plan 2016-2018 7/29/2015 4/1/2016 3/31/2017 High-Bay Fluorescent Fixture T5 > 4 Lamps w/ HE Electronic **Business Standard** ΑII Lighting Ballast Replacing HID Fixture AEG KCP&L Program Plan 2016-2018 2/1/2017 4/1/2017 High Bay Fluorescent Fixture w/ HE Electronic Ballast (T5 ≤4 7/29/2015 4/1/2016 3/31/2017 **Business Standard** ighting AEG KCP&L Program Plan 2016-2018 High-Bay Fluorescent Fixture T5 ≤ 4 Lamps w/ HE Electronic **Business Standard** ΑII Lighting Ballast Replacing HID Fixture AEG KCP&L Program Plan 2016-2018 2/1/2017 4/1/2017 **Business Standard** All Lighting LED Exit Sign AEG KCP&L Program Plan 2016-2018 7/29/2015 4/1/2016 **Business Standard** ΑII Lighting LED Flood Light (<15W) AEG KCP&L Program Plan 2016-2018 7/29/2015 4/1/2016 All **Business Standard** LED Flood Light (≥15W) AEG KCP&L Program Plan 2016-2018 7/29/2015 4/1/2016 Lighting All AEG KCP&L Program Plan 2016-2018 **Business Standard** Lighting LED Recessed Fixture (1 ft x 4 ft) 7/29/2015 4/1/2016 ΑII LED Recessed Fixture (2 ft x 2 ft) AEG KCP&L Program Plan 2016-2018 7/29/2015 4/1/2016 Business Standard Lighting All 7/29/2015 4/1/2016 **Business Standard** Lighting LED Recessed Fixture (2 ft x 4 ft) AEG KCP&L Program Plan 2016-2018 usiness Standard ΑII Lighting Optimization - Remove 4ft Lamp from T8 System AEG KCP&L Program Plan 2016-2018 7/29/2015 4/1/2016 3/31/2017 Lighting All AEG KCP&L Program Plan 2016-2018 2/1/2017 4/1/2017 **Business Standard** Lighting Remove 4ft Lamp from T8 or T12 system **Business Standard** ighting Lighting Optimization - Remove 8ft Lamp from T8 System AEG KCP&L Program Plan 2016-2018 7/29/2015 4/1/2016 3/31/2017 All **Business Standard** Lighting Remove 8ft Lamp from T8 or T12 System AEG KCP&L Program Plan 2016-2018 2/1/2017 4/1/2017 usiness Standard ighting Omnidirectional LED Bulb (<10W) AEG KCP&L Program Plan 2016-2018 7/29/2015 4/1/2016 3/31/2017 All **Business Standard** Lighting Omnidirectional LED Lamp replacing 40-60W Lamp AEG KCP&L Program Plan 2016-2018 2/1/2017 4/1/2017 Omnidirectional LED Bulb (≥10W) AEG KCP&L Program Plan 2016-2018 7/29/2015 4/1/2016 3/31/2017 **Business Standard** ighting All Omnidirectional LED Lamp replacing 61-100W Lamp AEG KCP&L Program Plan 2016-2018 2/1/2017 4/1/2017 **Business Standard** Lighting 7/29/2015 Lighting AEG KCP&L Program Plan 2016-2018 4/1/2016 3/31/2017 usiness Standard Photocell Occupancy Sensor All Interior Daylighting Controls Replacing No Controls AEG KCP&L Program Plan 2016-2018 2/1/2017 4/1/2017 **Business Standard** Lighting **Business Standard** ΑII Wall-Mount Occupancy Sensor AEG KCP&L Program Plan 2016-2018 7/29/2015 4/1/2016 3/31/2017 Lighting ΑII Occupancy or Vacancy Sensor Replacing No Controls AEG KCP&L Program Plan 2016-2018 2/1/2017 4/1/2017 **Business Standard** Lighting Business Standard High Volume Low Speed Fans (20ft Diameter) ΑII Pumps/Fans IL TRM 4/1/2016 All **Business Standard** Pumps/Fans High Volume Low Speed Fans (22ft Diameter) IL TRM 4/1/2016 Pumps/Fans High Volume Low Speed Fans (24ft Diameter) ΑII IL TRM 4/1/2016 **Business Standard** All **Business Standard** Pumps/Fans | Compressed Air - Engineered Nozzle 1/4" IL TRM 4/1/2016 **Business Standard** All IL TRM 4/1/2016 Pumps/Fans | Compressed Air - Engineered Nozzle 1/8" Business Standard All Pumps/Fans Compressed Air - No Loss Condensate Drain/Valve IL TRM 4/1/2016 All IL TRM **Business Standard** Pumps/Fans Variable Speed Drive Compressor - 1 shift weekdays 4/1/2016 Business Standard All Pumps/Fans Variable Speed Drive Compressor - 2 shift weekdays IL TRM 4/1/2016 Business Standard ΑII Pumps/Fans Variable Speed Drive Compressor - 3 shift weekdays IL TRM 4/1/2016 Variable Speed Drive Compressor - 3 shift weekdays plus **Business Standard** ΑII Pumps/Fans IL TRM 4/1/2016 Advanced Rooftop Unit Controls, 2000-4000 annual hours ΑII HVAC BPA 4/1/2016 **Business Standard** occupancy

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			Measure Description	ntion				
Program	Segment	End Use	Measure Name	Quantity1	Quantity1 Description	Quantity2	Quantity2 Description	Quantity3
Business Standard	All	HVAC	Air Sourced Air Conditioner 135<240 kBtuh	12,000	Btu/hr	1,071	Coefficient	
Business Standard	All	HVAC	Air Sourced Air Conditioner >240 kBtuh	12,000	Btu/hr	1,071	Coefficient	
Business Standard	All	Lighting	Directional LED Bulb (<15W)	1.41	Waste Heat Factor	1.34	Waste Heat Factor	
Business Standard	All	Lighting	Directional LED Lamp replacing 50-70W Lamp	1.41	Waste Heat Factor	1.34	Waste Heat Factor	
Business Standard	All	Lighting	Directional LED Bulb (≥15W)	1.41	Waste Heat Factor	1.34	Waste Heat Factor	
Business Standard	All	Lighting	Directional LED Lamp replacing 71-110W Lamp	1.41	Waste Heat Factor	1.34	Waste Heat Factor	
Business Standard	All	Lighting	High Bay Fluorescent Fixture (HP T8 >4 lamps)	1.41	Waste Heat Factor	1.34	Waste Heat Factor	
			High Performance High-Bay Fluorescent Fixture T8 > 4 Lamps					
Business Standard	All	Lighting	Replacing HID Fixture	1.41	Waste Heat Factor	1.34	Waste Heat Factor	
Business Standard	All	Lighting	High Bay Fluorescent Fixture (HP T8 ≤4 lamps)	1.41	Waste Heat Factor	1.34	Waste Heat Factor	
			High Bay Fluorescent Fixture w/ HE Electronic Ballast (T5 >4					
Business Standard	All	Lighting	lamps)	1.41	Waste Heat Factor	1.34	Waste Heat Factor	
			High-Bay Fluorescent Fixture T5 > 4 Lamps w/ HE Electronic					
Business Standard	All	Lighting	Ballast Replacing HID Fixture	1.41	Waste Heat Factor	1.34	Waste Heat Factor	
			High Bay Fluorescent Fixture w/ HE Electronic Ballast (T5 ≤4					
Business Standard	All	Lighting	lamps)	1.41	Waste Heat Factor	1.34	Waste Heat Factor	
			High-Bay Fluorescent Fixture T5 ≤ 4 Lamps w/ HE Electronic					
Business Standard	All	Lighting	Ballast Replacing HID Fixture	1.41	Waste Heat Factor	1.34	Waste Heat Factor	
Business Standard	All	Lighting	LED Exit Sign		Waste Heat Factor		Waste Heat Factor	+
Business Standard	All	Lighting	LED Flood Light (<15W)		Waste Heat Factor		Waste Heat Factor	1
Business Standard	All	Lighting	LED Flood Light (≥15W)		Waste Heat Factor	_	Waste Heat Factor	-
Business Standard	All	Lighting	LED Recessed Fixture (1 ft x 4 ft)		Waste Heat Factor	_	Waste Heat Factor	1
Business Standard	All	Lighting	LED Recessed Fixture (2 ft x 2 ft)		Waste Heat Factor		Waste Heat Factor	+
Business Standard	All	Lighting	LED Recessed Fixture (2 ft x 4 ft)		Waste Heat Factor		Waste Heat Factor	+
Business Standard	All	Lighting	Lighting Optimization - Remove 4ft Lamp from T8 System	1.41	Waste Heat Factor	1.34		+
Business Standard	All	Lighting	Remove 4ft Lamp from T8 or T12 system		Waste Heat Factor	_	Waste Heat Factor	+
Business Standard	All	Lighting	Lighting Optimization - Remove 8ft Lamp from T8 System	1.41	Waste Heat Factor	1.34		+
Business Standard	All	Lighting	Remove 8ft Lamp from T8 or T12 System		Waste Heat Factor		Waste Heat Factor	+
Business Standard	All	Lighting	Omnidirectional LED Bulb (<10W)	1.41	Waste Heat Factor		Waste Heat Factor	+
	All							+
Business Standard	All	Lighting	Omnidirectional LED Lamp replacing 40-60W Lamp Omnidirectional LED Bulb (≥10W)	1.41	Waste Heat Factor Waste Heat Factor	1.34	Waste Heat Factor	+
Business Standard		Lighting	, ,			-	Waste Heat Factor	+
Business Standard	All	Lighting	Omnidirectional LED Lamp replacing 61-100W Lamp		Waste Heat Factor	_	Waste Heat Factor	270
Business Standard	All	Lighting	Photocell Occupancy Sensor	1.41	Waste Heat Factor		Waste Heat Factor	27%
Business Standard	All	Lighting	Interior Daylighting Controls Replacing No Controls		Waste Heat Factor	_	Waste Heat Factor	27%
Business Standard	All	Lighting	Wall-Mount Occupancy Sensor	1.41	Waste Heat Factor	-	Waste Heat Factor	30%
Business Standard	All	Lighting	Occupancy or Vacancy Sensor Replacing No Controls	1.41	Waste Heat Factor	1.34	Waste Heat Factor	30%
Business Standard	All	Pumps/Fans	High Volume Low Speed Fans (20ft Diameter)	1				+
Business Standard	All	Pumps/Fans	High Volume Low Speed Fans (22ft Diameter)	-				
Business Standard	All	Pumps/Fans	High Volume Low Speed Fans (24ft Diameter)					
Business Standard	All	Pumps/Fans	Compressed Air - Engineered Nozzle 1/4"	1				
Business Standard	All	Pumps/Fans	Compressed Air - Engineered Nozzle 1/8"	1				
Business Standard	All	Pumps/Fans	Compressed Air - No Loss Condensate Drain/Valve	1				
Business Standard	All	Pumps/Fans	Variable Speed Drive Compressor - 1 shift weekdays					
Business Standard	All	Pumps/Fans	Variable Speed Drive Compressor - 2 shift weekdays					
Business Standard	All	Pumps/Fans	Variable Speed Drive Compressor - 3 shift weekdays					
Business Standard	All	Pumps/Fans	Variable Speed Drive Compressor - 3 shift weekdays plus weekends					
			Advanced Rooftop Unit Controls, 2000-4000 annual hours					
Business Standard	All	HVAC	occupancy	1				

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Count:	162		Measure Description	
Program	Segment	End Use	Measure Name	Quantity3 Description
Business Standard	All	HVAC	Air Sourced Air Conditioner 135<240 kBtuh	
Business Standard	All	HVAC	Air Sourced Air Conditioner >240 kBtuh	
Business Standard	All	Lighting	Directional LED Bulb (<15W)	
Business Standard	All	Lighting	Directional LED Lamp replacing 50-70W Lamp	
Business Standard	All	Lighting	Directional LED Bulb (≥15W)	
Business Standard	All	Lighting	Directional LED Lamp replacing 71-110W Lamp	
Business Standard	All	Lighting	High Bay Fluorescent Fixture (HP T8 >4 lamps)	
			High Performance High-Bay Fluorescent Fixture T8 > 4 Lamps	
Business Standard	All	Lighting	Replacing HID Fixture	
Business Standard	All	Lighting	High Bay Fluorescent Fixture (HP T8 ≤4 lamps)	
			High Bay Fluorescent Fixture w/ HE Electronic Ballast (T5 >4	
Business Standard	All	Lighting	lamps)	
			High-Bay Fluorescent Fixture T5 > 4 Lamps w/ HE Electronic	
Business Standard	All	Lighting	Ballast Replacing HID Fixture	
			High Bay Fluorescent Fixture w/ HE Electronic Ballast (T5 ≤4	
Business Standard	All	Lighting	lamps)	
			High-Bay Fluorescent Fixture T5 ≤ 4 Lamps w/ HE Electronic	
Business Standard	All	Lighting	Ballast Replacing HID Fixture	
Business Standard	All	Lighting	LED Exit Sign	
Business Standard	All	Lighting	LED Flood Light (<15W)	
Business Standard	All	Lighting	LED Flood Light (≥15W)	
Business Standard	All	Lighting	LED Recessed Fixture (1 ft x 4 ft)	
Business Standard	All	Lighting	LED Recessed Fixture (2 ft x 2 ft)	
Business Standard	All	Lighting	LED Recessed Fixture (2 ft x 4 ft)	
Business Standard	All	Lighting	Lighting Optimization - Remove 4ft Lamp from T8 System	
Business Standard	All	Lighting	Remove 4ft Lamp from T8 or T12 system	
Business Standard	All	Lighting	Lighting Optimization - Remove 8ft Lamp from T8 System	
Business Standard	All	Lighting	Remove 8ft Lamp from T8 or T12 System	
Business Standard	All	Lighting	Omnidirectional LED Bulb (<10W)	
Business Standard	All	Lighting	Omnidirectional LED Lamp replacing 40-60W Lamp	
Business Standard	All	Lighting	Omnidirectional LED Bulb (≥10W)	
Business Standard	All	Lighting	Omnidirectional LED Lamp replacing 61-100W Lamp	
Business Standard	All	Lighting	Photocell Occupancy Sensor	ESF
Business Standard	All	Lighting	Interior Daylighting Controls Replacing No Controls	ESF
Business Standard	All	Lighting	Wall-Mount Occupancy Sensor	ESF
Business Standard	All	Lighting	Occupancy or Vacancy Sensor Replacing No Controls	ESF
Business Standard	All	Pumps/Fans	High Volume Low Speed Fans (20ft Diameter)	
Business Standard	All		High Volume Low Speed Fans (22ft Diameter)	
Business Standard	All		High Volume Low Speed Fans (24ft Diameter)	
Business Standard	All	Pumps/Fans	Compressed Air - Engineered Nozzle 1/4"	
Business Standard	All	Pumps/Fans		
Business Standard	All	Pumps/Fans		
Business Standard	All	Pumps/Fans		
Business Standard	All	Pumps/Fans		
Business Standard	All	Pumps/Fans	Variable Speed Drive Compressor - 3 shift weekdays	
			Variable Speed Drive Compressor - 3 shift weekdays plus	
Business Standard	All	Pumps/Fans	weekends	
			Advanced Rooftop Unit Controls, 2000-4000 annual hours	
Business Standard	All	HVAC	occupancy	

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Valid for Program Implementation Dates: Early 2016 to 36 months following Search using Drop-down Filters in Headers Column Label: Н J

162 Column Equation: see column R = H / L Measure Description Gross Measure Valu Incremental **Electric Energy** Nameplate Peak Primary **End Use** Notes **Unit Definition Measure Cost** Savings (Annual **Demand Savings** Coincidence Program Segment **Measure Name** Key (\$/Unit) kWh/unit) (kW/unit) Factor Advanced Rooftop Unit Controls, > 4000 annual hours **Business Standard** ΑII HVAC occupancy 0138 \$400.00 700.0000 per ton Variable Speed ECM Pump, <100 Watts Max Input, Domestic **Business Standard** ΑII Pumps/Fans Hot Water Recirculation 0139 per Pump \$690.79 1.312.0900 Variable Speed ECM Pump, 100 - 500 Watts Max Input, **Business Standard** ΑII Pumps/Fans Domestic Hot Water Recirculation 0140 per Pump \$1,324.75 6,555.3600 Variable Speed ECM Pump, <100 Watts Max Input, Heating Pumps/Fans Water Circulation **Business Standard** ΑII 0142 per Pump \$690.79 359.0300 Variable Speed ECM Pump, 100 – 500 Watts Max Input, **Business Standard** ΑII Pumps/Fans Heating Water Circulation 0143 per Pump \$1,324.75 1.793.5800 Variable Speed ECM Pump, >500 Watts Max Input, Heating **Business Standard** ΑII Pumps/Fans Water Circulation 0144 per Pump \$1.844.58 7,174.3300 **Business Standard** ΑII Lighting Parking Garage 4'3L T5, T5HP, or T8 replacing >175W HID 0146 Annual Operating per fixture \$136.0 902.280 0.10 100% Parking Garage 4ft 3 Lamp T5/T5HO or T8 replacing > 175W **Business Standard** Annual Operating per fixture \$136.00 902.2800 0.10 Lighting 0146.1 100% **Business Standard** Lighting Parking Garage 4'2L T5, T5HP, or T8 replacing 101W-175W HID 0147 Annual Operating per fixture \$105.00 981.120 0.11 100% Parking Garage 4ft 2 Lamp T5/T5HO or T8 replacing ΑII Lighting 101W-175W Fixture 0147.1 Annual Operating per fixture \$105.00 981.1200 0.11 100% Business Standard usiness Standard ighting Parking Garage 4'1L T5, T5HP, or T8 replacing ≤100W HID 0148 Annual Operating per fixture \$74.0 613.2000 0.07 100% Parking Garage 4ft 1 Lamp T5/T5HO or T8 replacing ≤ 100W **Business Standard** Lighting 0148.1 Annual Operating per fixture \$74.00 613.2000 0.07 100% usiness Standard ΑII 0149 Annual Operating per fixture \$1.182.5 2.661.700 0.62 Lighting Exterior LED replacing >400W HID 0% Exterior LED replacing > 400W Fixture or Mogul Screw-Base 0.62 Business Standard Lighting 0149.1 Annual Operating per fixture \$1.182.50 2.661.7000 0% usiness Standard Lighting Exterior LED replacing 251-400W HID Annual Operating per fixture \$535.0 1,191.100 0.2 Exterior LED replacing 251W-400W Fixture or Mogul **Business Standard** Lighting Screw-Base Lamp 0150.1 Annual Operating per fixture \$535.00 1,191.1000 0.28 0% usiness Standard Lighting Exterior LED replacing 175-250W HID 0151 Annual Operating per fixture \$398 602.000 0.14 0% Exterior LED replacing 175W-250W Fixture or Mogul **Business Standard** ΑII Lighting Screw-Base Lamp 0151.1 Annual Operating per fixture \$398.8 602.0000 0.14 0% ΑII Exterior LED replacing <175W HID Annual Operating per fixture \$299.7 usiness Standard Lighting 490,200 0.11 Exterior LED replacing < 175W Fixture or Mogul Screw-Base ΑII 0152.1 \$299.75 490.2000 0% **Business Standard** Lighting Annual Operating per fixture 0.11 Parking Garage LED replacing >175W HID **Business Standard** ΑII Lighting 0153 Annual Operating per fixture \$520.0 902.280 0.10 1009 Parking Garage LED replacing > 175W Fixture or Mogul **Business Standard** ΑII Lighting Screw-Base Lamp 0153.1 Annual Operating per fixture \$520.00 902.2800 0.10 100% Parking Garage LED replacing 101W-175W HID **Business Standard** ΑII Lighting 0154 Annual Operating per fixture \$380.0 981.120 0.11 1009 Parking Garage LED replacing 101W-175W Fixture or Mogul Business Standard ΑII Lighting Screw-Base Lamp 0154.1 Annual Operating per fixture \$380.00 981.1200 0.11 100% Business Standard Parking Garage LED replacing ≤ 100W HID Annual Operating per fixture \$320.0 613.200 0.07 100% ighting Parking Garage LED replacing ≤ 100W Fixture or Mogul **Business Standard** ΑII 0155.1 Annual Operatingper fixture \$320.00 613.2000 0.07 100% Lighting Screw-Base Lamp ED linear replacement lamp replacing a 4' T8, T12, or T5 lamp **Business Standard** ΔII ighting Eligible for lighting optimization if applicable to project) 0166 Annual Operating per lamp \$24.00 54.489 0.02 75% ΑII Lighting **Business Standard** LED Linear Lamp Replacing 4ft T8, T12, or T5 Lamp 0166.1 Annual Operating per lamp \$24.00 54.4896 0.02 75% ΑII LED linear replacement lamp replacing a 2-ft T8, T12 or T5 lamp 0167 \$22.00 **Business Standard** Lighting Annual Operating per lamp 34.6752 0.01 75%

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			Measure Description	ies	ı			1
Program	Segment	End Use	Measure Name	Coincident Peak Demand Savings (kW/unit)	Annual Operating Hours	Measure Life (Years)	Measure Definition	Measure Efficiency Value
			Advanced Rooftop Unit Controls, > 4000 annual hours					
Business Standard	All	HVAC	occupancy	0.1500		15		
			Variable Speed ECM Pump, <100 Watts Max Input, Domestic					
Business Standard	All	Pumps/Fans	Hot Water Recirculation	0.2280		15		
			Variable Speed ECM Pump, 100 – 500 Watts Max Input,					
Business Standard	All	Pumps/Fans	Domestic Hot Water Recirculation	1.1390		15		
			Variable Speed ECM Pump, <100 Watts Max Input, Heating					
Business Standard	All	Pumps/Fans		0.0000		15		
			Variable Speed ECM Pump, 100 – 500 Watts Max Input,					
Business Standard	All	Pumps/Fans	Heating Water Circulation	0.0000		15		
			Variable Speed ECM Pump, >500 Watts Max Input, Heating					
Business Standard	All	Pumps/Fans	Water Circulation	0.0000		15		
Business Standard	All	Lighting	Parking Garage 4'3L T5, T5HP, or T8 replacing >175W HID	0.1030	8,760	6	4-ft 3L to 4L 4' T5, T5HO or T8	155
			Parking Garage 4ft 3 Lamp T5/T5HO or T8 replacing > 175W					
Business Standard	All	Lighting	Fixture	0.1030	8,760	6	4-ft 3L to 4L 4' T5, T5HO or T8	155
Business Standard	All	Lighting	Parking Garage 4'2L T5, T5HP, or T8 replacing 101W-175W HID	0.1120	8,760	6	4-ft 2L to 3L 4' T5, T5HO or T8	84
			Parking Garage 4ft 2 Lamp T5/T5HO or T8 replacing					
Business Standard	All	Lighting	101W-175W Fixture	0.1120	8,760	6	4-ft 2L to 3L 4' T5, T5HO or T8	84
Business Standard	All	Lighting	Parking Garage 4'1L T5, T5HP, or T8 replacing ≤100W HID	0.0700	8,760	6	4-ft 1L to 2L 4' T5, T5HO or T8	54
			Parking Garage 4ft 1 Lamp T5/T5HO or T8 replacing ≤ 100W					
Business Standard	All	Lighting	Fixture	0.0700	8,760	6	4-ft 1L to 2L 4' T5, T5HO or T8	54
Business Standard	All	Lighting	Exterior LED replacing >400W HID	0.0000	4,300	12	LED Exterior Lighting Fixtures (Includes	412
			Exterior LED replacing > 400W Fixture or Mogul Screw-Base		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,			
Business Standard	All	Lighting	Lamp	0.0000	4,300	12	LED Exterior Lighting Fixtures (Includes	412
Business Standard	All	Lighting	Exterior LED replacing 251-400W HID	0.0000	4,300	12	LED Exterior Lighting Fixtures (Includes	167
Dusiness Standard	7.11	Lighting	Exterior LED replacing 251W-400W Fixture or Mogul	0.0000	4,300		EED Exterior Eighting Fixeures (merades	107
Business Standard	All	Lighting	Screw-Base Lamp	0.0000	4,300	12	LED Exterior Lighting Fixtures (Includes	167
Business Standard	All	Lighting	Exterior LED replacing 175-250W HID	0.0000	4,300	12	LED Exterior Lighting Fixtures (Includes	82
Dasiness Standard	All	Ligiting	Exterior LED replacing 175W-250W Fixture or Mogul	0.0000	4,300	12	EED Exterior Eighting Fixtures (includes	02
Business Standard	All	Lighting	Screw-Base Lamp	0.0000	4,300	12	LED Exterior Lighting Fixtures (Includes	82
Business Standard	All	Lighting	Exterior LED replacing <175W HID	0.0000	4,300	12	LED Exterior Lighting Fixtures (Includes	37
Dusiness Standard	All	Ligiting	Exterior LED replacing < 175W Fixture or Mogul Screw-Base	0.0000	4,300	12	LED Exterior Lighting Fixtures (includes	37
Business Standard	All	Lighting	Lamp	0.0000	4,300	12	LED Exterior Lighting Fixtures (Includes	37
Business Standard	All	Lighting	Parking Garage LED replacing >175W HID	0.1030	8,760	6	LED Parking Garage Lighting Fixtures	155
business standard	All	Lighting		0.1030	8,700	0	LED Parking Garage Lighting Fixtures	155
Durain and Chair david	All	1:	Parking Garage LED replacing > 175W Fixture or Mogul	0.1030	0.700	C	LED Deutine Course Lighting Fintures	155
Business Standard	All	Lighting	Screw-Base Lamp	0.1030	8,760	6	LED Parking Garage Lighting Fixtures	155
Business Standard	All	Lighting	Parking Garage LED replacing 101W-175W HID	0.1120	8,760	6	LED Parking Garage Lighting Fixtures	84
			Parking Garage LED replacing 101W-175W Fixture or Mogul	0.4400	0.750			
Business Standard	All	Lighting	Screw-Base Lamp	0.1120	8,760	6	LED Parking Garage Lighting Fixtures	84
Business Standard	All	Lighting	Parking Garage LED replacing ≤ 100W HID	0.0700	8,760	6	LED Parking Garage Lighting Fixtures	54
n			Parking Garage LED replacing ≤ 100W Fixture or Mogul			_		
Business Standard	All	Lighting	Screw-Base Lamp	0.0700	8,760	6	LED Parking Garage Lighting Fixtures	54
			LED linear replacement lamp replacing a 4' T8, T12, or T5 lamp			4-		
Business Standard	All	Lighting	(Eligible for lighting optimization if applicable to project)	0.0124	4,128	12	4-ft LED Linear Replacement Lamps	18
Business Standard	All	Lighting	LED Linear Lamp Replacing 4ft T8, T12, or T5 Lamp	0.0124	4,128	12	4-ft LED Linear Replacement Lamps	18
		1						
Business Standard	All	Lighting	LED linear replacement lamp replacing a 2-ft T8, T12 or T5 lamp	0.0079	4,128	12	2-ft LED Linear Replacement Lamps	10

ndicates default plan values that can be adjusted for unique installations.

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unique installations.

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	_	_	Measure Description			Algorithms
Program	Segment	End Use	Measure Name	Baseline Definition	Baseline Efficiency Value	Electric Energy Savings Algorithm
Business Standard	All	HVAC	Advanced Rooftop Unit Controls, > 4000 annual hours occupancy			=ROUND(700,40)
Business Standard	All	Pumps/Fans				=ROUND(1312.09,4)
Business Standard	All	Pumps/Fans				=ROUND(6555.36,4)
Business Standard	All	Pumps/Fans	Variable Speed ECM Pump, <100 Watts Max Input, Heating Water Circulation Variable Speed ECM Pump, 100 – 500 Watts Max Input,			=ROUND(359.03,4)
Business Standard	All	Pumps/Fans				=ROUND(1793.58,4)
Business Standard Business Standard	All	Pumps/Fans Lighting		200W - 250W HID Fixture	258	=ROUND(7174.33,4) =ROUND((R151-P151)*(AC151)*M151/1000,4)
Business Standard	All	Lighting	Parking Garage 4ft 3 Lamp T5/T5HO or T8 replacing > 175W Fixture	200W - 250W HID Fixture	258	=ROUND((R152-P152)*(AC152)*M152/1000,4)
Business Standard	All	Lighting	Parking Garage 4'2L T5, T5HP, or T8 replacing 101W-175W HID	125W - 175W HID Fixture	196	=ROUND((R153-P153)*(AC153)*M153/1000,4)
Business Standard	All	Lighting	Parking Garage 4ft 2 Lamp T5/T5HO or T8 replacing 101W-175W Fixture	125W - 175W HID Fixture	196	=ROUND((R154-P154)*(AC154)*M154/1000,4)
Business Standard	All	Lighting	Parking Garage 4'1L T5, T5HP, or T8 replacing ≤100W HID Parking Garage 4ft 1 Lamp T5/T5HO or T8 replacing ≤ 100W	≤ 100 W HID Fixture	124	=ROUND((R155-P155)*(AC155)*M155/1000,4)
Business Standard Business Standard	AII	Lighting Lighting	Fixture Exterior LED replacing >400W HID	≤ 100 W HID Fixture > 400 W HID Fixture	124 1031	=ROUND((R156-P156)*(AC156)*M156/1000,4) =ROUND((R157-P157)*(AC157)*M157/1000,4)
Business Standard	All	Lighting	Exterior LED replacing > 400W Fixture or Mogul Screw-Base Lamp	> 400 W HID Fixture	1031	=ROUND((R158-P158)*(AC158)*M158/1000,4)
Business Standard		Lighting	Exterior LED replacing 251-400W HID Exterior LED replacing 251W-400W Fixture or Mogul	320 W Pulse Start and 400W MH/HPS Fix	444	=ROUND((R159-P159)*(AC159)*M159/1000,4)
Business Standard Business Standard	All All	Lighting Lighting	Screw-Base Lamp Exterior LED replacing 175-250W HID	320 W Pulse Start and 400W MH/HPS Fix 175 W HID - 250 W HID Fixture	222	=ROUND((R160-P160)*(AC160)*M160/1000,4) =ROUND((R161-P161)*(AC161)*M161/1000,4)
Business Standard Business Standard	All	Lighting Lighting	Exterior LED replacing 175W-250W Fixture or Mogul Screw-Base Lamp Exterior LED replacing <175W HID	175 W HID - 250 W HID Fixture	222 151	=ROUND((R162-P162)*(AC162)*M162/1000,4) =ROUND((R163-P163)*(AC163)*M163/1000,4)
Business Standard	All	Lighting	Exterior LED replacing < 175W Fixture or Mogul Screw-Base Lamp	< 175 W HID Fixture	151	=ROUND((R164-P164)*(AC164)*M164/1000,4)
Business Standard	All	Lighting	Parking Garage LED replacing >175W HID Parking Garage LED replacing > 175W Fixture or Mogul	200W - 250W HID Fixture	258	=ROUND((R165-P165)*(AC165)*M165/1000,4)
Business Standard Business Standard	All	Lighting Lighting	Screw-Base Lamp Parking Garage LED replacing 101W-175W HID	200W - 250W HID Fixture 125W - 175W HID Fixture	258 196	=ROUND((R166-P166)*(AC166)*M166/1000,4) =ROUND((R167-P167)*(AC167)*M167/1000,4)
Business Standard	All	Lighting	Parking Garage LED replacing 101W-175W Fixture or Mogul Screw-Base Lamp	125W - 175W HID Fixture	196	=ROUND((R168-P168)*(AC168)*M168/1000,4)
Business Standard	All	Lighting	Parking Garage LED replacing ≤ 100W HID Parking Garage LED replacing ≤ 100W Fixture or Mogul	≤ 100 W HID Fixture	124	=ROUND((R169-P169)*(AC169)*M169/1000,4)
Business Standard	All	Lighting	Screw-Base Lamp LED linear replacement lamp replacing a 4' T8, T12, or T5 lamp	≤ 100 W HID Fixture	124	=ROUND((R170-P170)*(AC170)*M170/1000,4)
Business Standard	All	Lighting	(Eligible for lighting optimization if applicable to project)	32W 4-ft T8 with Electronic NBF Ballast 32W 4-ft T8 with Electronic NBF Ballast	29	=ROUND((R171-P171)*(AC171)*M171/1000,4)
Business Standard Business Standard	All	Lighting Lighting	LED Linear Lamp Replacing 4ft T8, T12, or T5 Lamp LED linear replacement lamp replacing a 2-ft T8, T12 or T5 lamp		17	=ROUND((R172-P172)*(AC172)*M172/1000,4) =ROUND((R173-P173)*(AC173)*M173/1000,4)

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			Measure Description			
Program	Segment	End Use	Measure Name	Incentive Definition	Net to Gross Ratio (NTG)	Net Electric Energy Savings (Annual kWh/unit)
			Advanced Rooftop Unit Controls, > 4000 annual hours			
Business Standard	All	HVAC	occupancy		100%	700.00
			Variable Speed ECM Pump, <100 Watts Max Input, Domestic			
Business Standard	All	Pumps/Fans	Hot Water Recirculation		100%	1,312.09
			Variable Speed ECM Pump, 100 – 500 Watts Max Input,			
Business Standard	All	Pumps/Fans	Domestic Hot Water Recirculation		100%	6,555.30
			Variable Speed ECM Pump, <100 Watts Max Input, Heating			
Business Standard	All	Pumps/Fans	Water Circulation		100%	359.03
			Variable Speed ECM Pump, 100 – 500 Watts Max Input,			
Business Standard	All	Pumps/Fans	Heating Water Circulation		100%	1,793.58
			Variable Speed ECM Pump, >500 Watts Max Input, Heating			
Business Standard	All	Pumps/Fans	Water Circulation		100%	7,174.33
Business Standard	All	Lighting	Parking Garage 4'3L T5, T5HP, or T8 replacing >175W HID	Min of 50% Incremental Cost or \$0.10/kWh with so	100%	902
			Parking Garage 4ft 3 Lamp T5/T5HO or T8 replacing > 175W			
Business Standard	All	Lighting	Fixture	per unit	100%	902
Business Standard	All	Lighting	Parking Garage 4'2L T5, T5HP, or T8 replacing 101W-175W HID	Min of 50% Incremental Cost or \$0.10/kWh with so	100%	981
Dasiness Standard	All	Ligitung	Parking Garage 4ft 2 Lamp T5/T5HO or T8 replacing	Will of 30% incremental cost of \$0.10/kWil with 30	10070	50.
Business Standard	All	Lighting	101W-175W Fixture	per unit	100%	981
Business Standard	All	Lighting	Parking Garage 4'1L T5, T5HP, or T8 replacing ≤100W HID	Min of 50% Incremental Cost or \$0.10/kWh with so	100%	613
business standard	All	Ligitting	Parking Garage 4 ft 13, 13HP, 01 18 replacing ≤ 100W	Will of 30% incremental cost of \$0.10/kWil with so	100%	013
Business Standard	All	Lighting	Fixture	nor unit	100%	613
	All	Lighting		per unit		
Business Standard	All	Lighting	Exterior LED replacing >400W Fixture on Magnil Cores Page	Min of 50% Incremental Cost or \$0.10/kWh with so	100%	2,662
D Ct d d	A II	12.1.1.	Exterior LED replacing > 400W Fixture or Mogul Screw-Base		4000/	2.66
Business Standard	All	Lighting	Lamp	per unit	100%	2,662
Business Standard	All	Lighting	Exterior LED replacing 251-400W HID	Min of 50% Incremental Cost or \$0.10/kWh with so	100%	1,191
			Exterior LED replacing 251W-400W Fixture or Mogul		4000/	4.40
Business Standard	All	Lighting	Screw-Base Lamp	per unit	100%	1,191
Business Standard	All	Lighting	Exterior LED replacing 175-250W HID	Min of 50% Incremental Cost or \$0.10/kWh with so	100%	602
			Exterior LED replacing 175W-250W Fixture or Mogul			
Business Standard	All	Lighting	Screw-Base Lamp	per unit	100%	602
Business Standard	All	Lighting	Exterior LED replacing <175W HID	Min of 50% Incremental Cost or \$0.10/kWh with so	100%	490
			Exterior LED replacing < 175W Fixture or Mogul Screw-Base			
Business Standard	All	Lighting	Lamp	per unit	100%	490
Business Standard	All	Lighting	Parking Garage LED replacing >175W HID	Min of 50% Incremental Cost or \$0.10/kWh with so	100%	902
			Parking Garage LED replacing > 175W Fixture or Mogul			
Business Standard	All	Lighting	Screw-Base Lamp	per unit	100%	902
Business Standard	All	Lighting	Parking Garage LED replacing 101W-175W HID	Min of 50% Incremental Cost or \$0.10/kWh with so	100%	981
			Parking Garage LED replacing 101W-175W Fixture or Mogul			
Business Standard	All	Lighting	Screw-Base Lamp	per unit	100%	981
Business Standard	All	Lighting	Parking Garage LED replacing ≤ 100W HID	Min of 50% Incremental Cost or \$0.10/kWh with so	100%	613
			Parking Garage LED replacing ≤ 100W Fixture or Mogul			
Business Standard	All	Lighting	Screw-Base Lamp	per unit	100%	613
			LED linear replacement lamp replacing a 4' T8, T12, or T5 lamp			
Business Standard	All	Lighting	(Eligible for lighting optimization if applicable to project)	Approximately \$0.15/kWh; Keeping equitable with	100%	54
Business Standard	All	Lighting	LED Linear Lamp Replacing 4ft T8, T12, or T5 Lamp	per unit	100%	54
Business Standard	All	Lighting	LED linear replacement lamp replacing a 2-ft T8, T12 or T5 lamp	Approximately \$0.15/kWh: Keeping equitable with	100%	35

ΑII

Lighting

Business Standard

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Count 162 Measure Description Sup **Date of Data** Effective Start | Effective End **Cooling Degree Heating Degree End Use Data Source** Program Segment **Measure Name** Revision Days (CDD) Days (HDD) Advanced Rooftop Unit Controls, > 4000 annual hours 4/1/2016 **Business Standard** ΑII HVAC BPA Variable Speed ECM Pump, <100 Watts Max Input, Domestic **Business Standard** All Pumps/Fans Hot Water Recirculation Focus On Energy (WI), Grundfos 4/1/2016 Variable Speed ECM Pump, 100 - 500 Watts Max Input, **Business Standard** ΑII Pumps/Fans Domestic Hot Water Recirculation Focus On Energy (WI), Grundfos 4/1/2016 Variable Speed ECM Pump, <100 Watts Max Input, Heating Pumps/Fans Water Circulation **Business Standard** ΑII Focus On Energy (WI), 4/1/2016 Variable Speed ECM Pump, 100 – 500 Watts Max Input, All **Business Standard** Pumps/Fans Heating Water Circulation Focus On Energy (WI), 4/1/2016 Variable Speed ECM Pump, >500 Watts Max Input, Heating **Business Standard** ΑII Pumps/Fans Water Circulation Focus On Energy (WI), 4/1/2016 **Business Standard** ΑII Lighting Parking Garage 4'3L T5, T5HP, or T8 replacing >175W HID **IN TRM** 11/4/2015 4/1/2016 3/31/2017 Parking Garage 4ft 3 Lamp T5/T5HO or T8 replacing > 175W **Business Standard** ΑII IN TRM 2/1/2017 4/1/2017 Lighting **Business Standard** Lighting Parking Garage 4'2L T5, T5HP, or T8 replacing 101W-175W HID IN TRM 4/1/2016 3/31/2017 Parking Garage 4ft 2 Lamp T5/T5HO or T8 replacing **Business Standard** ΑII Lighting 101W-175W Fixture IN TRM 2/1/2017 4/1/2017 **Business Standard** ighting Parking Garage 4'1L T5, T5HP, or T8 replacing ≤100W HID IN TRM 4/1/2016 3/31/2017 Parking Garage 4ft 1 Lamp T5/T5HO or T8 replacing ≤ 100W **Business Standard** Lighting IN TRM 2/1/2017 4/1/2017 4/1/2016 Susiness Standard Exterior LED replacing >400W HID IN TRM 3/31/2017 ighting Exterior LED replacing > 400W Fixture or Mogul Screw-Base 2/1/2017 4/1/2017 Business Standard Lighting IN TRM Business Standard Lighting Exterior LED replacing 251-400W HID IN TRM 4/1/2016 3/31/2017 Exterior LED replacing 251W-400W Fixture or Mogul **Business Standard** Lighting Screw-Base Lamp IN TRM 2/1/2017 4/1/2017 usiness Standard Lighting Exterior LED replacing 175-250W HID IN TRM 4/1/2016 3/31/2017 Exterior LED replacing 175W-250W Fixture or Mogul 2/1/2017 ΑII 4/1/2017 **Business Standard** Lighting Screw-Base Lamp IN TRM Jusiness Standard Exterior LED replacing <175W HID IN TRM 4/1/2016 3/31/2017 Lighting Exterior LED replacing < 175W Fixture or Mogul Screw-Base ΑII IN TRM 2/1/2017 4/1/2017 **Business Standard** Lighting Parking Garage LED replacing >175W HID **Business Standard** ΑII Lighting IN TRM 11/4/2015 4/1/2016 3/31/2017 Parking Garage LED replacing > 175W Fixture or Mogul **Business Standard** ΑII Lighting Screw-Base Lamp IN TRM 2/1/2017 4/1/2017 Parking Garage LED replacing 101W-175W HID **Business Standard** ΑII Lighting **IN TRM** 4/1/2016 3/31/2017 Parking Garage LED replacing 101W-175W Fixture or Mogul 2/1/2017 4/1/2017 Business Standard ΑII Lighting Screw-Base Lamp IN TRM **Business Standard** Parking Garage LED replacing ≤ 100W HID IN TRM 4/1/2016 3/31/2017 ighting Parking Garage LED replacing ≤ 100W Fixture or Mogul 2/1/2017 **Business Standard** ΑII Lighting Screw-Base Lamp IN TRM 4/1/2017 LED linear replacement lamp replacing a 4' T8, T12, or T5 lamp **Business Standard** ΔII ighting Eligible for lighting optimization if applicable to project) Weighted Average using IN TRM 4/1/2016 3/31/2017 ΑII Lighting **Business Standard** LED Linear Lamp Replacing 4ft T8, T12, or T5 Lamp Weighted Average using IN TRM 2/1/2017 4/1/2017

LED linear replacement lamp replacing a 2-ft T8, T12 or T5 lamp Weighted Average using IN TRM

4/1/2016

3/31/2017

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			Measure Description	porting Information						
Program	Segment	End Use	Measure Name	Quantity1	Quantity1 Description	Quantity2	Quantity2 Description	Quantity3		
Business Standard	All	HVAC	Advanced Rooftop Unit Controls, > 4000 annual hours occupancy							
			Variable Speed ECM Pump, <100 Watts Max Input, Domestic							
Business Standard	All	Pumps/Fans	Hot Water Recirculation							
			Variable Speed ECM Pump, 100 – 500 Watts Max Input,							
Business Standard	All	Pumps/Fans	Domestic Hot Water Recirculation							
			Variable Speed ECM Pump, <100 Watts Max Input, Heating							
Business Standard	All	Pumps/Fans	Water Circulation							
			Variable Speed ECM Pump, 100 – 500 Watts Max Input,							
Business Standard	All	Pumps/Fans	Heating Water Circulation							
			Variable Speed ECM Pump, >500 Watts Max Input, Heating							
Business Standard	All	Pumps/Fans								
Business Standard	All	Lighting	Parking Garage 4'3L T5, T5HP, or T8 replacing >175W HID	1.00	Waste Heat Factor_Energy	1.00	Waste Heat Factor_Demand			
			Parking Garage 4ft 3 Lamp T5/T5HO or T8 replacing > 175W							
Business Standard	All	Lighting	Fixture	1.00	Waste Heat Factor_Energy	1.00	Waste Heat Factor_Demand			
Business Standard	All	Lighting	Parking Garage 4'2L T5, T5HP, or T8 replacing 101W-175W HID	1.00	Waste Heat Factor_Energy	1.00	Waste Heat Factor_Demand			
			Parking Garage 4ft 2 Lamp T5/T5HO or T8 replacing							
Business Standard	All	Lighting	101W-175W Fixture		Waste Heat Factor_Energy		Waste Heat Factor_Demand			
Business Standard	All	Lighting	Parking Garage 4'1L T5, T5HP, or T8 replacing ≤100W HID	1.00	Waste Heat Factor_Energy	1.00	Waste Heat Factor_Demand			
			Parking Garage 4ft 1 Lamp T5/T5HO or T8 replacing ≤ 100W							
Business Standard	All	Lighting	Fixture		Waste Heat Factor_Energy		Waste Heat Factor_Demand			
Business Standard	All	Lighting	Exterior LED replacing >400W HID	1.00	Waste Heat Factor_Energy	1.00	Waste Heat Factor_Demand			
			Exterior LED replacing > 400W Fixture or Mogul Screw-Base							
Business Standard	All	Lighting	Lamp		Waste Heat Factor_Energy		Waste Heat Factor_Demand			
Business Standard	All	Lighting	Exterior LED replacing 251-400W HID	1.00	Waste Heat Factor_Energy	1.00	Waste Heat Factor_Demand			
			Exterior LED replacing 251W-400W Fixture or Mogul							
Business Standard	All	Lighting	Screw-Base Lamp		Waste Heat Factor_Energy	_	Waste Heat Factor_Demand			
Business Standard	All	Lighting	Exterior LED replacing 175-250W HID	1.00	Waste Heat Factor_Energy	1.00	Waste Heat Factor_Demand			
			Exterior LED replacing 175W-250W Fixture or Mogul							
Business Standard	All	Lighting	Screw-Base Lamp		Waste Heat Factor_Energy	_	Waste Heat Factor_Demand			
Business Standard	All	Lighting	Exterior LED replacing <175W HID	1.00	Waste Heat Factor_Energy	1.00	Waste Heat Factor_Demand			
			Exterior LED replacing < 175W Fixture or Mogul Screw-Base							
Business Standard	All	Lighting	Lamp		Waste Heat Factor_Energy		Waste Heat Factor_Demand			
Business Standard	All	Lighting	Parking Garage LED replacing >175W HID	1.00	Waste Heat Factor_Energy	1.00	Waste Heat Factor_Demand			
		1	Parking Garage LED replacing > 175W Fixture or Mogul		l <u>-</u>		l <u>-</u> .			
Business Standard	All	Lighting	Screw-Base Lamp		Waste Heat Factor_Energy		Waste Heat Factor_Demand	1		
Business Standard	All	Lighting	Parking Garage LED replacing 101W-175W HID	1.00	Waste Heat Factor_Energy	1.00	Waste Heat Factor_Demand	1		
		1	Parking Garage LED replacing 101W-175W Fixture or Mogul	1	.		l .			
Business Standard	All	Lighting	Screw-Base Lamp		Waste Heat Factor_Energy		Waste Heat Factor_Demand	1		
Business Standard	All	Lighting	Parking Garage LED replacing ≤ 100W HID	1.00	Waste Heat Factor_Energy	1.00	Waste Heat Factor_Demand	1		
		1	Parking Garage LED replacing ≤ 100W Fixture or Mogul		l <u>-</u>		l <u>.</u> .			
Business Standard	All	Lighting	Screw-Base Lamp	1.00	Waste Heat Factor_Energy	1.00	Waste Heat Factor_Demand	1		
			LED linear replacement lamp replacing a 4' T8, T12, or T5 lamp]						
Business Standard	All	Lighting	(Eligible for lighting optimization if applicable to project)	1.20	Waste Heat Factor_Energy	1.50	Waste Heat Factor_Demand	1		
		11.1.1.	LED Live and a second of the AG TO TAG		W					
Business Standard	All	Lighting	LED Linear Lamp Replacing 4ft T8, T12, or T5 Lamp	1.20	Waste Heat Factor_Energy	1.50	Waste Heat Factor_Demand	1		
a stronger to t	A.II	12.1.1.	LED I'm and a second and a second as a		W		Wester Heat Start - St.	1		
Business Standard	All	Lighting	LED linear replacement lamp replacing a 2-ft T8, T12 or T5 lamp	1.20	Waste Heat Factor_Energy	1.50	Waste Heat Factor_Demand			

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		Measure Description							
Program	Segment	End Use	Measure Name	Quantity3 Description					
			Advanced Rooftop Unit Controls, > 4000 annual hours						
Business Standard	All	HVAC	occupancy						
			Variable Speed ECM Pump, <100 Watts Max Input, Domestic						
Business Standard	All	Pumps/Fans	Hot Water Recirculation						
			Variable Speed ECM Pump, 100 – 500 Watts Max Input,						
Business Standard	All	Pumps/Fans							
			Variable Speed ECM Pump, <100 Watts Max Input, Heating						
Business Standard	All	Pumps/Fans							
			Variable Speed ECM Pump, 100 – 500 Watts Max Input,						
Business Standard	All	Pumps/Fans							
			Variable Speed ECM Pump, >500 Watts Max Input, Heating						
Business Standard	All		Water Circulation						
Business Standard	All	Lighting	Parking Garage 4'3L T5, T5HP, or T8 replacing >175W HID						
			Parking Garage 4ft 3 Lamp T5/T5HO or T8 replacing > 175W						
Business Standard	All	Lighting	Fixture						
Business Standard	All	Lighting	Parking Garage 4'2L T5, T5HP, or T8 replacing 101W-175W HID						
			Parking Garage 4ft 2 Lamp T5/T5HO or T8 replacing						
Business Standard	All	Lighting	101W-175W Fixture						
Business Standard	All	Lighting	Parking Garage 4'1L T5, T5HP, or T8 replacing ≤100W HID						
			Parking Garage 4ft 1 Lamp T5/T5HO or T8 replacing ≤ 100W						
Business Standard	All	Lighting	Fixture						
Business Standard	All	Lighting	Exterior LED replacing >400W HID						
			Exterior LED replacing > 400W Fixture or Mogul Screw-Base						
Business Standard	All	Lighting	Lamp						
Business Standard	All	Lighting	Exterior LED replacing 251-400W HID						
			Exterior LED replacing 251W-400W Fixture or Mogul						
Business Standard	All	Lighting	Screw-Base Lamp						
Business Standard	All	Lighting	Exterior LED replacing 175-250W HID						
			Exterior LED replacing 175W-250W Fixture or Mogul						
Business Standard	All	Lighting	Screw-Base Lamp						
Business Standard	All	Lighting	Exterior LED replacing <175W HID						
			Exterior LED replacing < 175W Fixture or Mogul Screw-Base						
Business Standard	All	Lighting	Lamp						
Business Standard	All	Lighting	Parking Garage LED replacing >175W HID						
			Parking Garage LED replacing > 175W Fixture or Mogul						
Business Standard	All	Lighting	Screw-Base Lamp						
Business Standard	All	Lighting	Parking Garage LED replacing 101W-175W HID						
			Parking Garage LED replacing 101W-175W Fixture or Mogul						
Business Standard	All	Lighting	Screw-Base Lamp						
Business Standard	All	Lighting	Parking Garage LED replacing ≤ 100W HID						
			Parking Garage LED replacing ≤ 100W Fixture or Mogul						
Business Standard	All	Lighting	Screw-Base Lamp						
			LED linear replacement lamp replacing a 4' T8, T12, or T5 lamp						
Business Standard	All	Lighting	(Eligible for lighting optimization if applicable to project)						
Business Standard	All	Lighting	LED Linear Lamp Replacing 4ft T8, T12, or T5 Lamp						
		1							
Business Standard	All	Lighting	LED linear replacement lamp replacing a 2-ft T8, T12 or T5 lamp						

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 Column Label:
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Search using Drop-down Filter					Column Label:		Н		J	K
Count:	162		Manage Description		Column Equation:			see column R	= H / L	
Program	Segment	End Use	Measure Description Measure Name	Primary Key	Notes	Unit Definition	Incremental Measure Cost (\$/Unit)	Electric Energy Savings (Annual kWh/unit)	Nameplate Demand Savings (kW/unit)	Peak Coincidence Factor
Business Standard	All	Lighting	LED Linear Lamp Replacing 2ft T8, T12, or T5 Lamp	0167.1	Annual Operating	per lamp	\$22.00	34.6752	0.01	75%
Business Standard	All	Lighting	LED 1X4 Retrofit Kit replacing T8, T12 or T5/T5HO	0168	Annual Operating	per fixture	\$155.00	199.7730	0.06	75%
Business Standard	All	Lighting	LED 1X4 Retrofit Kit replacing T8, T12 or T5/T5HO fixture	0168.1	Annual Operating	per fixture	\$155.00	199.7730	0.06	75%
Business Standard	All	Lighting	LED 2X4 Retrofit Kit replacing T8, T12 or T5/T5HO	0169	Annual Operating	per fixture	\$145.00	257.8703	0.08	75%
Business Standard	All	Lighting	LED 2X4 Retrofit Kit replacing T8, T12 or T5/T5HO fixture	0169.1	Annual Operating	per fixture	\$145.00	257.8703	0.08	75%
Business Standard	All	Lighting	LED 2X2 Retrofit Kit replacing T8, T12 or T5/T5HO	0170	Annual Operating	per fixture	\$130.00	194.8194	0.06	75%
Business Standard	All	Lighting	LED 2X2 Retrofit Kit replacing T8, T12 or T5/T5HO fixture	0170.1	Annual Operating	per fixture	\$130.00	194.8194	0.06	75%
Business Standard	All	Lighting	LED 1X4 Troffer or Linear Ambient replacing T8, T12 or T5/T5HO	0171	Annual Operating	gper fixture	\$180.00	209.6802	0.06	75%
Business Standard	All	Lighting	LED 1X4 Troffer or Linear Ambient replacing T8, T12 or T5/T5HO fixture	0171.1	Annual Operating	per fixture	\$180.00	209.6802	0.06	75%
			LED 2X4 Troffer or Linear Ambient replacing T8, T12 or				4			
Business Standard	All	Lighting	T5/T5HO	0172	Annual Operating	per fixture	\$170.00	257.8703	0.08	75%
Business Standard	All	Lighting	LED 2X4 Troffer or Linear Ambient replacing T8, T12 or T5/T5HO fixture LED 2X2 Troffer or Linear Ambient replacing T8, T12 or	0172.1	Annual Operating	per fixture	\$170.00	257.8703	0.08	75%
Business Standard	All	Lighting	T5/T5HO LED 2X2 Troffer or Linear Ambient replacing T8, T12 or	0173	Annual Operating	gper fixture	\$155.00	204.7266	0.06	75%
Business Standard	All	Lighting	T5/T5HO fixture	0173.1	Annual Operating	aner fixture	\$155.00	204.7266	0.06	75%
Business Standard	All	Lighting	LED Refrigerated Case Lights (4, 5, and 6-foot)	0173.1	Annual Operating	•	\$230.00	594.9354	0.15	92%
Business Standard Business Standard	AII	Lighting Lighting	LED Refrigerated Case Lights w/Doors 4ft, 5ft, or 6ft replacing Fluorescent Refrigerated Case Lights w/Doors 4ft, 5ft, or 6ft LED Freezer Case Lights (4, 5, and 6-foot)	0174.1 0175	Annual Operating	•	\$230.00 \$230.00	594.9354 641.3488	0.15 0.16	92% <mark>92%</mark>
Business Standard	All	Lighting	LED Freezer Case Lights w/Doors 4ft, 5ft, or 6ft replacing Fluorescent Freezer Case Lights w/Doors 4ft, 5ft, or 6ft	0175.1	Annual Operating	gper door	\$230.00	641.3488	0.16	92%
Business Standard	All	Lighting	LED Downlight or Retrofit Kit ≤ 13W	0176	Annual Operating	per fixture	\$35.00	195.0768	0.06	70%
Business Standard	All	Lighting	LED Downlight or Retrofit Kit replacing 45-60W Fixture	0176.1	Annual Operating	per fixture	\$35.00	195.0768	0.06	70%
Business Standard	All	Lighting	LED Downlight or Retrofit Kit 14 to 21W	0177	Annual Operating	per fixture	\$68.00	321.8767	0.10	70%
Business Standard	All	Lighting	LED Downlight or Retrofit Kit replacing 61-100W Fixture	0177.1	Annual Operating	•	\$68.00	321.8767	0.10	70%
Business Standard	All	Lighting	LED Downlight or Retrofit Kit ≥ 22W	0178	Annual Operating	per fixture	\$120.00	512.0766	0.16	70%
Business Standard	All	Lighting	LED Downlight or Retrofit Kit replacing 101-155W Fixture	0178.1	Annual Operating		\$120.00	512.0766	0.16	70%
Small Business Direct Install	All	Lighting	Directional LED Bulb (<15W)	0179		per lamp	\$18.00	277.2765	0.067	70%
Small Business Direct Install	All	Lighting	Directional LED Lamp replacing 50-70W Lamp	0179.1		per lamp	\$18.00	277.2765		70%
Small Business Direct Install Small Business Direct Install	All	Lighting Lighting	High Bay Fluorescent Fixture (HP T8 >4 lamps) High Performance High-Bay Fluorescent Fixture T8 > 4 Lamps Replacing HID Fixture	0181		per fixture	\$220.00 \$220.00	1,478.4696 1,478.4696	0.322	78% 78%
Small Business Direct Install	All	Lighting	High Bay Fluorescent Fixture w/ HE Electronic Ballast (T5 ≤4 lamps)	0183		per fixture	\$200.00	677.6319	0.147	78%
Small Business Direct Install	All	Lighting	High-Bay Fluorescent Fixture T5 ≤ 4 Lamps w/ HE Electronic Ballast Replacing HID Fixture	0183.1		per fixture	\$200.00	677.6319	0.147	78%
Small Business Direct Install	All	Lighting	Lighting Optimization - Remove 8ft Lamp from T8 System	0186		per lamp	\$70.00	337.5878	0.078	75%
Small Business Direct Install	All	Lighting	Remove 8ft Lamp from T8 or T12 System	0186.1		per lamp	\$70.00	337.5878	0.078	75%
Small Business Direct Install	All	Lighting	Omnidirectional LED Bulb (<10W)	0187		per lamp	\$12.00	211.5000	0.054	65%
Small Business Direct Install	All	Lighting	Omnidirectional LED Lamp replacing 40-60W Lamp	0187.1		per lamp	\$12.00	211.5000	0.054	65%
Small Business Direct Install	All	Lighting	Omnidirectional LED Bulb (≥10W)	0188		per lamp	\$20.00	360.4595	0.087	70%
Small Business Direct Install	All	Lighting	Omnidirectional LED Lamp replacing 61-100W Lamp	0188.1		per lamp	\$20.00	360.4595	0.087	70%
Small Business Direct Install	All	Lighting	Wall-Mount Occupancy Sensor	0190		per sensor	\$84.00	323.0366	0.074	95%
Small Business Direct Install	All	Lighting	Occupancy or Vacancy Sensor Replacing No Controls	0190.1		per sensor	\$84.00	323.0366	0.074	95%

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Program	Segment	End Use	Measure Name	Coincident Peak Demand Savings (kW/unit)	Annual Operating Hours	Measure Life (Years)	Measure Definition	Measure Efficiency Value
Business Standard	All	Lighting	LED Linear Lamp Replacing 2ft T8, T12, or T5 Lamp	0.0079	4,128	12	2-ft LED Linear Replacement Lamps	10
Business Standard	All	Lighting	LED 1X4 Retrofit Kit replacing T8, T12 or T5/T5HO	0.0454	4,128	12	LED 1X4 Retrofit Kits	37
Business Standard	All	Lighting	LED 1X4 Retrofit Kit replacing T8, T12 or T5/T5HO fixture	0.0454	4,128	12	LED 1X4 Retrofit Kits	37
Business Standard	All	Lighting	LED 2X4 Retrofit Kit replacing T8, T12 or T5/T5HO	0.0586	4,128	12	LED 2X4 Retrofit Kits	46
Business Standard	All	Lighting	LED 2X4 Retrofit Kit replacing T8, T12 or T5/T5HO fixture	0.0586	4,128	12	LED 2X4 Retrofit Kits	46
Business Standard	All	Lighting	LED 2X2 Retrofit Kit replacing T8, T12 or T5/T5HO	0.0442	4,128	12	LED 2X2 Retrofit Kits	38
Business Standard	All	Lighting	LED 2X2 Retrofit Kit replacing T8, T12 or T5/T5HO fixture	0.0442	4,128	12	LED 2X2 Retrofit Kits	38
Business Standard	All	Lighting	LED 1X4 Troffer or Linear Ambient replacing T8, T12 or T5/T5HO	0.0476	4,128	12	LED 1X4 Troffer or Linear Ambient Fixt	35
Business Standard	All	Lighting	LED 1X4 Troffer or Linear Ambient replacing T8, T12 or T5/T5HO fixture	0.0476	4,128	12	LED 1X4 Troffer or Linear Ambient Fixt	35
Business Standard	All	Lighting	LED 2X4 Troffer or Linear Ambient replacing T8, T12 or T5/T5HO	0.0586	4,128	12	LED 2X2 Troffer or Linear Ambient Fixt	46
Business Standard	All	Lighting	LED 2X4 Troffer or Linear Ambient replacing T8, T12 or T5/T5HO fixture	0.0586	4,128	12	LED 2X2 Troffer or Linear Ambient Fixt	46
Business Standard	All	Lighting	LED 2X2 Troffer or Linear Ambient replacing T8, T12 or T5/T5HO	0.0465	4,128	12	LED 2X4 Troffer or Linear Ambient Fixt	36
Business Standard	All	Lighting	LED 2X2 Troffer or Linear Ambient replacing T8, T12 or T5/T5HO fixture	0.0465	4,128	12	LED 2X4 Troffer or Linear Ambient Fixt	36
Business Standard	All	Lighting	LED Refrigerated Case Lights (4, 5, and 6-foot)	0.1387	6,205	8	LED Refrigerated (Medium Temp) Case	34
Business Standard	All	Lighting	LED Refrigerated Case Lights w/Doors 4ft, 5ft, or 6ft replacing Fluorescent Refrigerated Case Lights w/Doors 4ft, 5ft, or 6ft	0.1387	6,205	8	LED Refrigerated (Medium Temp) Case	34
Business Standard	All	Lighting	LED Freezer Case Lights (4, 5, and 6-foot)	0.1450	6,205	8	LED Freezer (Low Temp) Case Light Fixt	34
			LED Freezer Case Lights w/Doors 4ft, 5ft, or 6ft replacing					
Business Standard	All	Lighting	Fluorescent Freezer Case Lights w/Doors 4ft, 5ft, or 6ft	0.1450	6,205	8	LED Freezer (Low Temp) Case Light Fixt	
Business Standard	All	Lighting	LED Downlight or Retrofit Kit ≤ 13W	0.0423	3,933	13	LED Downlight or Retrofit Kit ≤ 13W	11
Business Standard	All	Lighting	LED Downlight or Retrofit Kit replacing 45-60W Fixture	0.0423	3,933	13	LED Downlight or Retrofit Kit ≤ 13W	11
Business Standard	All	Lighting	LED Downlight or Retrofit Kit 14 to 21W	0.0698	3,933	13	LED Downlight or Retrofit Kit 14 to 21V	18
Business Standard	All	Lighting	LED Downlight or Retrofit Kit replacing 61-100W Fixture	0.0698	3,933	13	LED Downlight or Retrofit Kit 14 to 21V	18
Business Standard	All	Lighting	LED Downlight or Retrofit Kit ≥ 22W	0.1110	3,933	13	LED Downlight or Retrofit Kit ≥ 22W	28
Business Standard	All	Lighting	LED Downlight or Retrofit Kit replacing 101-155W Fixture	0.1110	3,933	13	LED Downlight or Retrofit Kit ≥ 22W	28
Small Business Direct Install	All	Lighting	Directional LED Bulb (<15W)	0.0469	3,933	7	LED (watts)	10
Small Business Direct Install	All	Lighting	Directional LED Lamp replacing 50-70W Lamp	0.0469	3,933	7	LED (watts)	10
Small Business Direct Install	All	Lighting	High Bay Fluorescent Fixture (HP T8 >4 lamps)	0.2508	4,369	12	High Bay T8 (>4 lamps, wattage)	240
Small Business Direct Install	All	Lighting	High Performance High-Bay Fluorescent Fixture T8 > 4 Lamps Replacing HID Fixture High Bay Fluorescent Fixture w/ HE Electronic Ballast (T5 ≤4	0.2508	4,369	12	High Bay T8 (>4 lamps, wattage)	240
Small Business Direct Install	All	Lighting	lamps) High-Bay Fluorescent Fixture T5 ≤ 4 Lamps w/ HE Electronic	0.1150	4,369	12	High Bay T5 (≤4 lamps, wattage)	110
Small Business Direct Install Small Business Direct Install	All	Lighting	Ballast Replacing HID Fixture	0.1150 0.0583	4,369 4,128	12 12	High Bay T5 (≤4 lamps, wattage)	110
	All	Lighting	Lighting Optimization - Remove 8ft Lamp from T8 System	0.0583	4,128	12	Remove T8	0
Small Business Direct Install	All	Lighting	Remove 8ft Lamp from T8 or T12 System	0.0583			Remove T8	8
Small Business Direct Install		Lighting	Omnidirectional LED Bulb (<10W)		3,750	7	LED (watts)	
Small Business Direct Install	All	Lighting	Omnidirectional LED Lamp replacing 40-60W Lamp	0.0348	3,750	7	LED (watts)	8
Small Business Direct Install	All	Lighting	Omnidirectional LED Bulb (≥10W)	0.0610	3,933	7	LED (watts)	13
Small Business Direct Install Small Business Direct Install	All	Lighting Lighting	Omnidirectional LED Lamp replacing 61-100W Lamp Wall-Mount Occupancy Sensor	0.0610 0.0707	3,933 4,128	7 8	Wall-Mount Occupancy Sensor	13 185
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ndicates default plan values that can be adjusted for unique installations.

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Count.			Measure Description			Algorithms
Program	Segment	End Use	Measure Name	Baseline Definition	Baseline Efficiency Value	Electric Energy Savings Algorithm
Business Standard	All	Lighting	LED Linear Lamp Replacing 2ft T8, T12, or T5 Lamp	17W 2-ft T8 with Electronic NBF Ballast	17	=ROUND((R174-P174)*(AC174)*M174/1000,4)
Business Standard	All	Lighting	LED 1X4 Retrofit Kit replacing T8, T12 or T5/T5HO	1x4 T8, T12 or T5 Fluorescents	77	=ROUND((R175-P175)*(AC175)*M175/1000,4)
Business Standard	All	Lighting	LED 1X4 Retrofit Kit replacing T8, T12 or T5/T5HO fixture	1x4 T8, T12 or T5 Fluorescents	77	=ROUND((R176-P176)*(AC176)*M176/1000,4)
Business Standard	All	Lighting	LED 2X4 Retrofit Kit replacing T8, T12 or T5/T5HO	2x4 T8, T12 or T5 Fluorescents	98	=ROUND((R177-P177)*(AC177)*M177/1000,4)
Business Standard	All	Lighting	LED 2X4 Retrofit Kit replacing T8, T12 or T5/T5HO fixture	2x4 T8, T12 or T5 Fluorescents	98	=ROUND((R178-P178)*(AC178)*M178/1000,4)
Business Standard	All	Lighting	LED 2X2 Retrofit Kit replacing T8, T12 or T5/T5HO	2x2 T8, T12 or T5 Fluorescents	77	=ROUND((R179-P179)*(AC179)*M179/1000,4)
Business Standard	All	Lighting	LED 2X2 Retrofit Kit replacing T8, T12 or T5/T5HO fixture	2x2 T8, T12 or T5 Fluorescents	77	=ROUND((R180-P180)*(AC180)*M180/1000,4)
			LED 1X4 Troffer or Linear Ambient replacing T8, T12 or		İ	
Business Standard	All	Lighting	T5/T5HO	1X4 Troffer or Linear Ambient T8, T12 or	77	=ROUND((R181-P181)*(AC181)*M181/1000,4)
			LED 1X4 Troffer or Linear Ambient replacing T8, T12 or			
Business Standard	All	Lighting	T5/T5HO fixture	1X4 Troffer or Linear Ambient T8, T12 or	77	=ROUND((R182-P182)*(AC182)*M182/1000,4)
		0 . 0	LED 2X4 Troffer or Linear Ambient replacing T8, T12 or	,		(
Business Standard	All	Lighting	T5/T5HO	2X4 Troffer or Linear Ambient T8, T12 or	98	=ROUND((R183-P183)*(AC183)*M183/1000,4)
			LED 2X4 Troffer or Linear Ambient replacing T8, T12 or			
Business Standard	All	Lighting	T5/T5HO fixture	2X4 Troffer or Linear Ambient T8, T12 or	98	=ROUND((R184-P184)*(AC184)*M184/1000,4)
		0 - 0	LED 2X2 Troffer or Linear Ambient replacing T8, T12 or			((= = , (= = , , = , , = , , , , , , ,
Business Standard	All	Lighting	T5/T5HO	2X2 Troffer or Linear Ambient T8, T12 or	77	=ROUND((R185-P185)*(AC185)*M185/1000,4)
			LED 2X2 Troffer or Linear Ambient replacing T8, T12 or			((
Business Standard	All	Lighting	T5/T5HO fixture	2X2 Troffer or Linear Ambient T8, T12 or	77	=ROUND((R186-P186)*(AC186)*M186/1000,4)
Business Standard	All	Lighting	LED Refrigerated Case Lights (4, 5, and 6-foot)	Linear Fluorescent T12 and T8 Fixtures	102	=ROUND((R187-P187)/1000*M187*AC187,4)
Business Standard	All	Lighting	LED Refrigerated Case Lights w/Doors 4ft, 5ft, or 6ft replacing Fluorescent Refrigerated Case Lights w/Doors 4ft, 5ft, or 6ft	Linear Fluorescent T12 and T8 Fixtures	102	=ROUND((R188-P188)/1000*M188*AC188,4)
Business Standard	All	Lighting	LED Freezer Case Lights (4, 5, and 6-foot)	Linear Fluorescent T12 and T8 Fixtures	102	=ROUND((R189-P189)/1000*M189*AC189,4)
			LED Freezer Case Lights w/Doors 4ft, 5ft, or 6ft replacing			
Business Standard	All	Lighting	Fluorescent Freezer Case Lights w/Doors 4ft, 5ft, or 6ft	Linear Fluorescent T12 and T8 Fixtures	102	=ROUND((R190-P190)/1000*M190*AC190,4)
Business Standard	All	Lighting	LED Downlight or Retrofit Kit ≤ 13W	Incandescent and Halogen Downlights <	51	=ROUND((R191-P191)*(AC191)*M191/1000,4)
Business Standard	All	Lighting	LED Downlight or Retrofit Kit replacing 45-60W Fixture	Incandescent and Halogen Downlights <	51	=ROUND((R192-P192)*(AC192)*M192/1000,4)
Business Standard	All	Lighting	LED Downlight or Retrofit Kit 14 to 21W	Incandescent and Halogen Downlights 10	84	=ROUND((R193-P193)*(AC193)*M193/1000,4)
Business Standard	All	Lighting	LED Downlight or Retrofit Kit replacing 61-100W Fixture	Incandescent and Halogen Downlights 10	84	=ROUND((R194-P194)*(AC194)*M194/1000,4)
Business Standard	All	Lighting	LED Downlight or Retrofit Kit ≥ 22W	Incandescent, HID and Halogen Downligh	133	=ROUND((R195-P195)*(AC195)*M195/1000,4)
Business Standard	All	Lighting	LED Downlight or Retrofit Kit replacing 101-155W Fixture	Incandescent, HID and Halogen Downligh	133	=ROUND((R196-P196)*(AC196)*M196/1000,4)
Small Business Direct Install	All	Lighting	Directional LED Bulb (<15W)	Incandescent (watts)	60	=ROUND((R197-P197)*(AC197)*M197/1000,4)
Small Business Direct Install	All	Lighting	Directional LED Lamp replacing 50-70W Lamp	Incandescent (watts)	60	=ROUND((R198-P198)*(AC198)*M198/1000,4)
Small Business Direct Install	All	Lighting	High Bay Fluorescent Fixture (HP T8 >4 lamps)	Metal Halide (watts)	480	=ROUND((R199-P199)*(AC199)*M199/1000,4)
Small Business Direct Install	All	Lighting	High Performance High-Bay Fluorescent Fixture T8 > 4 Lamps Replacing HID Fixture	Metal Halide (watts)	480	=ROUND((R200-P200)*(AC200)*M200/1000,4)
Small Business Direct Install	All	Lighting	High Bay Fluorescent Fixture w/ HE Electronic Ballast (T5 ≤4 lamps) High-Bay Fluorescent Fixture T5 ≤ 4 Lamps w/ HE Electronic	Metal Halide (watts)	220	=ROUND((R201-P201)*(AC201)*M201/1000,4)
Small Business Direct Install	All	Lighting	Ballast Replacing HID Fixture	Metal Halide (watts)	220	=ROUND((R202-P202)*(AC202)*M202/1000,4)
Small Business Direct Install	All	Lighting	Lighting Optimization - Remove 8ft Lamp from T8 System	T8 8 ft (watts)	58	=ROUND((R203-P203)/1000*M203*AC203,4)
Small Business Direct Install	All	Lighting	Remove 8ft Lamp from T8 or T12 System	T8 8 ft (watts)	58	=ROUND((R204-P204)/1000*M204*AC204,4)
Small Business Direct Install	All	Lighting	Omnidirectional LED Bulb (<10W)	EISA tier 1 compliant Halogen (watts)	48	=ROUND((R204-F204)/1000 M204 AC204,4) =ROUND((R205-P205)/1000*M205*AC205,4)
Small Business Direct Install	All	Lighting	Omnidirectional LED Lamp replacing 40-60W Lamp	EISA tier 1 compliant Halogen (watts)	48	=ROUND((R205-P205)/1000*M205*AC205,4) =ROUND((R206-P206)/1000*M206*AC206,4)
Small Business Direct Install	All	Lighting	Omnidirectional LED Bulb (≥10W)	EISA tier 1 compliant Halogen (watts) EISA tier 1 compliant Halogen (watts)	78	=ROUND((R207-P206)/1000*M207*AC206,4) =ROUND((R207-P207)/1000*M207*AC207,4)
			· · ·			
Small Business Direct Install	All	Lighting	Omnidirectional LED Lamp replacing 61-100W Lamp	EISA tier 1 compliant Halogen (watts)	78	=ROUND((R208-P208)/1000*M208*AC208,4)
Small Business Direct Install		Lighting	Wall-Mount Occupancy Sensor	No Control		=ROUND(P209/1000*AG209*M209*AC209,4)
Small Business Direct Install	All	Lighting	Occupancy or Vacancy Sensor Replacing No Controls	No Control		=ROUND(P210/1000*AG210*M210*AC210,4)

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162 Measure Description **Net Electric Energy** Net to Gross **End Use Incentive Definition** Savings (Annual **Program** Segment **Measure Name** Ratio (NTG) kWh/unit) **Business Standard** ΑII Lighting LED Linear Lamp Replacing 2ft T8, T12, or T5 Lamp 100% per unit usiness Standard LED 1X4 Retrofit Kit replacing T8, T12 or T5/T5HO 1009 200 Lighting Targeted a bit above 25% of IMC between \$0.16-All LED 1X4 Retrofit Kit replacing T8, T12 or T5/T5HO fixture 100% 200 **Business Standard** Lighting per unit Business Standard ighting. LED 2X4 Retrofit Kit replacing T8, T12 or T5/T5HO Targeted a bit above 25% of IMC between \$0.16-5 100% 258 **Business Standard** ΑII Lighting LED 2X4 Retrofit Kit replacing T8, T12 or T5/T5HO fixture per unit 100% 258 usiness Standard ighting LED 2X2 Retrofit Kit replacing T8, T12 or T5/T5HO Targeted a bit above 25% of IMC between \$0.16-\$ 1009 195 All LED 2X2 Retrofit Kit replacing T8, T12 or T5/T5HO fixture 100% 195 **Business Standard** Lighting per unit LED 1X4 Troffer or Linear Ambient replacing T8, T12 or 100% 210 Business Standard ighting Targeted a bit above 25% of IMC between \$0.16-\$ LED 1X4 Troffer or Linear Ambient replacing T8, T12 or **Business Standard** ΑII T5/T5HO fixture 100% 210 Lighting per unit LED 2X4 Troffer or Linear Ambient replacing T8, T12 or **Business Standard** ighting Targeted a bit above 25% of IMC between \$0.16-\$ 258 LED 2X4 Troffer or Linear Ambient replacing T8, T12 or **Business Standard** ΑII 100% Lighting T5/T5HO fixture per unit 258 LED 2X2 Troffer or Linear Ambient replacing T8, T12 or **Business Standard** Lighting T5/T5HO Targeted a bit above 25% of IMC between \$0.16-\$ 100% 205 LED 2X2 Troffer or Linear Ambient replacing T8, T12 or ΑII T5/T5HO fixture 100% 205 **Business Standard** Lighting **Business Standard** ighting LED Refrigerated Case Lights (4, 5, and 6-foot) Min of 50% Incremental Cost or \$0.10/kWh with se 100% 595 LED Refrigerated Case Lights w/Doors 4ft, 5ft, or 6ft replacing **Business Standard** Lighting Fluorescent Refrigerated Case Lights w/Doors 4ft, 5ft, or 6ft 100% 595 ΑII 641 Business Standard ighting LED Freezer Case Lights (4, 5, and 6-foot) Min of 50% Incremental Cost or \$0.10/kWh with s 1009 LED Freezer Case Lights w/Doors 4ft, 5ft, or 6ft replacing **Business Standard** ΑII Lighting Fluorescent Freezer Case Lights w/Doors 4ft, 5ft, or 6ft 100% 641 usiness Standard Lighting LED Downlight or Retrofit Kit ≤ 13W Min of 50% Incremental Cost or \$0.10/kWh with se 1009 195 ΑII **Business Standard** Lighting LED Downlight or Retrofit Kit replacing 45-60W Fixture 100% 195 Susiness Standard ighting LED Downlight or Retrofit Kit 14 to 21W Min of 50% Incremental Cost or \$0.10/kWh with s 1009 322 All **Business Standard** Lighting LED Downlight or Retrofit Kit replacing 61-100W Fixture per unit 100% 322 Min of 50% Incremental Cost or \$0.10/kWh with se 1009 512 **Susiness Standard** ighting LED Downlight or Retrofit Kit ≥ 22W All LED Downlight or Retrofit Kit replacing 101-155W Fixture 100% 512 **Business Standard** Lighting per unit Directional LED Bulb (<15W) 1009 277.28 nall Business Direct Install Lighting per unit Directional LED Lamp replacing 50-70W Lamp 100% 277.28 imall Business Direct Install ΑII Lighting per unit mall Business Direct Install High Bay Fluorescent Fixture (HP T8 >4 lamps) 1009 1.478.47 Lighting per unit High Performance High-Bay Fluorescent Fixture T8 > 4 Lamps Small Business Direct Install Lighting Replacing HID Fixture 100% 1,478.47 ner unit High Bay Fluorescent Fixture w/ HE Electronic Ballast (T5 ≤4 ighting 100% 677.63 imall Business Direct Install oer unit High-Bay Fluorescent Fixture T5 ≤ 4 Lamps w/ HE Electronic Small Business Direct Install ΑII 100% 677.63 Ballast Replacing HID Fixture Lighting per unit mall Business Direct Install Lighting Lighting Optimization - Remove 8ft Lamp from T8 System per unit 100% 337.59 Small Business Direct Install ΑII Remove 8ft Lamp from T8 or T12 System 100% 337.59 Lighting per unit mall Business Direct Install Omnidirectional LED Bulb (<10W) 100 211.50 ighting. ner unit Small Business Direct Install ΑII Lighting Omnidirectional LED Lamp replacing 40-60W Lamp 100% 211.50 per unit mall Business Direct Install Lighting Omnidirectional LED Bulb (≥10W) 1009 360.46 per unit Small Business Direct Install Omnidirectional LED Lamp replacing 61-100W Lamp 100% 360.46 Lighting per unit 323.04 mall Business Direct Install 1009 ighting Wall-Mount Occupancy Sensor per unit All 100% 323.04

per unit

Occupancy or Vacancy Sensor Replacing No Controls

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			Measure Description	Sup							
Program	Segment	End Use	Measure Name	Data Source	Date of Data Revision	Effective Start Date	Effective End Date	Cooling Degree Days (CDD)	Heating Degree Days (HDD)		
Business Standard	All	Lighting	LED Linear Lamp Replacing 2ft T8, T12, or T5 Lamp	Weighted Average using IN TRM	2/1/2017	4/1/2017					
Business Standard	All	Lighting	LED 1X4 Retrofit Kit replacing T8, T12 or T5/T5HO	Weighted Average using IN TRM		4/1/2016	3/31/2017				
Business Standard	All	Lighting	LED 1X4 Retrofit Kit replacing T8, T12 or T5/T5HO fixture	Weighted Average using IN TRM	2/1/2017	4/1/2017					
Business Standard	All	Lighting	LED 2X4 Retrofit Kit replacing T8, T12 or T5/T5HO	Weighted Average using IN TRM		4/1/2016	3/31/2017				
Business Standard	All	Lighting	LED 2X4 Retrofit Kit replacing T8, T12 or T5/T5HO fixture	Weighted Average using IN TRM	2/1/2017	4/1/2017					
Business Standard	All	Lighting	LED 2X2 Retrofit Kit replacing T8, T12 or T5/T5HO	Weighted Average using IN TRM		4/1/2016	3/31/2017				
Business Standard	All	Lighting	LED 2X2 Retrofit Kit replacing T8, T12 or T5/T5HO fixture	Weighted Average using IN TRM	2/1/2017	4/1/2017					
Business Standard	All	Lighting	LED 1X4 Troffer or Linear Ambient replacing T8, T12 or T5/T5HO	Weighted Average using IN TRM		4/1/2016	3/31/2017				
Business Standard	All	Lighting	LED 1X4 Troffer or Linear Ambient replacing T8, T12 or T5/T5HO fixture	Weighted Average using IN TRM	2/1/2017	4/1/2017					
			LED 2X4 Troffer or Linear Ambient replacing T8, T12 or								
Business Standard	All	Lighting	T5/T5HO	Weighted Average using IN TRM	-	4/1/2016	3/31/2017				
Business Standard	All	Lighting	LED 2X4 Troffer or Linear Ambient replacing T8, T12 or T5/T5HO fixture	Weighted Average using IN TRM	2/1/2017	4/1/2017					
Business Standard	All	Lighting	LED 2X2 Troffer or Linear Ambient replacing T8, T12 or T5/T5HO	Weighted Average using IN TRM		4/1/2016	3/31/2017				
Business Standard	All	Lighting	LED 2X2 Troffer or Linear Ambient replacing T8, T12 or T5/T5HO fixture	Weighted Average using IN TRM	2/1/2017	4/1/2017					
Business Standard	All	Lighting	LED Refrigerated Case Lights (4, 5, and 6-foot)	IL TRM		4/1/2016	3/31/2017				
Business Standard	All	Lighting	LED Refrigerated Case Lights w/Doors 4ft, 5ft, or 6ft replacing Fluorescent Refrigerated Case Lights w/Doors 4ft, 5ft, or 6ft	IL TRM	2/1/2017	4/1/2017	2/24/2047				
Business Standard	All	Lighting	LED Freezer Case Lights (4, 5, and 6-foot)	IL TRM		4/1/2016	3/31/2017				
Dusiness Standard	All	Lighting	LED Freezer Case Lights w/Doors 4ft, 5ft, or 6ft replacing	IL TRM	2/1/2017	4/1/2017					
Business Standard Business Standard	All	Lighting Lighting	Fluorescent Freezer Case Lights w/Doors 4ft, 5ft, or 6ft LED Downlight or Retrofit Kit ≤ 13W	Weighted Average using IN TRM	2/1/2017	4/1/2017	3/31/2017				
Business Standard	All	Lighting	LED Downlight or Retrofit Kit > 13W	Weighted Average using IN TRM Weighted Average using IN TRM	2/1/2017	4/1/2016	3/31/2017				
Business Standard	All	Lighting	LED Downlight or Retrofit Kit 14 to 21W	Weighted Average using IN TRM	2/1/2017	4/1/2017	3/31/2017				
Business Standard	All	Lighting	LED Downlight or Retrofit Kit 14 to 21W LED Downlight or Retrofit Kit replacing 61-100W Fixture	Weighted Average using IN TRM Weighted Average using IN TRM	2/1/2017	4/1/2010	3/31/2017				
Business Standard	All	Lighting	LED Downlight or Retrofit Kit replacing 01-100W Fixture LED Downlight or Retrofit Kit ≥ 22W	Weighted Average using IN TRM	2/1/2017	4/1/2017	3/31/2017				
Business Standard	All	Lighting	LED Downlight or Retrofit Kit replacing 101-155W Fixture	Weighted Average using IN TRM Weighted Average using IN TRM	2/1/2017	4/1/2010	3/31/2017				
Small Business Direct Install	All	Lighting	Directional LED Bulb (<15W)	AEG KCP&L Program Plan 2016-2018	2/1/201/	4/1/2016	3/31/2017				
Small Business Direct Install	All	Lighting	Directional LED Lamp replacing 50-70W Lamp	AEG KCP&L Program Plan 2016-2018	2/1/2017	4/1/2017	3/31/2017				
Small Business Direct Install	All	Lighting	High Bay Fluorescent Fixture (HP T8 >4 lamps)	AEG KCP&L Program Plan 2016-2018	2/11/2016	4/1/2016	3/31/2017				
Sinch Business Bir det instan		2.8.18	High Performance High-Bay Fluorescent Fixture T8 > 4 Lamps	7120 101 021 108 0111 1011 2010 2010	2/11/2010	., 1, 2010	0,01,201				
Small Business Direct Install	All	Lighting	Replacing HID Fixture High Bay Fluorescent Fixture w/ HE Electronic Ballast (T5 ≤4	AEG KCP&L Program Plan 2016-2018	2/1/2017	4/1/2017					
Small Business Direct Install	All	Lighting	lamps)	AEG KCP&L Program Plan 2016-2018	2/11/2016	4/1/2016	3/31/2017				
Small Business Direct Install	All	Lighting	Ballast Replacing HID Fixture	AEG KCP&L Program Plan 2016-2018	2/1/2017	4/1/2017	2/24/2047				
Small Business Direct Install	All	Lighting	Lighting Optimization - Remove 8ft Lamp from T8 System	AEG KCP&L Program Plan 2016-2018	2/11/2016	4/1/2016	3/31/2017				
Small Business Direct Install	All	Lighting	Remove 8ft Lamp from T8 or T12 System	AEG KCP&L Program Plan 2016-2018	2/1/2017	4/1/2017	2/24/2047				
Small Business Direct Install	All	Lighting	Omnidirectional LED Bulb (<10W)	AEG KCP&L Program Plan 2016-2018	2/11/2016	4/1/2016	3/31/2017				
Small Business Direct Install	All	Lighting	Omnidirectional LED Lamp replacing 40-60W Lamp	AEG KCP&L Program Plan 2016-2018	2/1/2017	4/1/2017	2/24/2047				
Small Business Direct Install	All All	Lighting	Omnidirectional LED Bulb (>10W)	AEG KCP&L Program Plan 2016-2018	2/11/2016	4/1/2016	3/31/2017				
Small Business Direct Install	All	Lighting	Omnidirectional LED Lamp replacing 61-100W Lamp	AEG KCP&L Program Plan 2016-2018	2/1/2017	4/1/2017	2/21/2017				
Small Business Direct Install	2 222	Lighting	Wall-Mount Occupancy Sensor	AEG KCP&L Program Plan 2016-2018	2/11/2016	4/1/2016	3/31/2017				
Small Business Direct Install	All	Lighting	Occupancy or Vacancy Sensor Replacing No Controls	AEG KCP&L Program Plan 2016-2018	2/1/2017	4/1/2017	L	<u> </u>			

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	_		Measure Description	porting Inform	ation			
Program	Segment	End Use	Measure Name	Quantity1	Quantity1 Description	Quantity2	Quantity2 Description	Quantity3
Business Standard	All	Lighting	LED Linear Lamp Replacing 2ft T8, T12, or T5 Lamp	1.20	Waste Heat Factor_Energy	1.50	Waste Heat Factor_Demand	
Business Standard	All	Lighting	LED 1X4 Retrofit Kit replacing T8, T12 or T5/T5HO	1.20	Waste Heat Factor_Energy	1.50	Waste Heat Factor_Demand	
Business Standard	All	Lighting	LED 1X4 Retrofit Kit replacing T8, T12 or T5/T5HO fixture	1.20	Waste Heat Factor Energy	1.50	Waste Heat Factor Demand	
Business Standard	All	Lighting	LED 2X4 Retrofit Kit replacing T8, T12 or T5/T5HO	1.20	Waste Heat Factor Energy	1.50	Waste Heat Factor Demand	
Business Standard	All	Lighting	LED 2X4 Retrofit Kit replacing T8, T12 or T5/T5HO fixture	1.20	Waste Heat Factor Energy	1.50	Waste Heat Factor Demand	
Business Standard	All	Lighting	LED 2X2 Retrofit Kit replacing T8, T12 or T5/T5HO	1.20	Waste Heat Factor_Energy	1.50	Waste Heat Factor Demand	
Business Standard	All	Lighting	LED 2X2 Retrofit Kit replacing T8, T12 or T5/T5HO fixture	1.20	Waste Heat Factor_Energy	1.50	Waste Heat Factor_Demand	
Business Standard	All	Lighting	LED 1X4 Troffer or Linear Ambient replacing T8, T12 or T5/T5HO		Waste Heat Factor_Energy		Waste Heat Factor_Demand	
Business Standard	All	Lighting	LED 1X4 Troffer or Linear Ambient replacing T8, T12 or T5/T5HO fixture	1.20	Waste Heat Factor_Energy	1.50	Waste Heat Factor_Demand	
Business Standard	All	Lighting	LED 2X4 Troffer or Linear Ambient replacing T8, T12 or T5/T5HO LED 2X4 Troffer or Linear Ambient replacing T8, T12 or	1.20	Waste Heat Factor_Energy	1.50	Waste Heat Factor_Demand	
Business Standard	All	Lighting	T5/T5HO fixture LED 2X2 Troffer or Linear Ambient replacing T8, T12 or	1.20	Waste Heat Factor_Energy	1.50	Waste Heat Factor_Demand	
Business Standard	All	Lighting	T5/T5HO LED 2X2 Troffer or Linear Ambient replacing T8, T12 or	1.20	Waste Heat Factor_Energy	1.50	Waste Heat Factor_Demand	
Business Standard	All	Lighting	T5/T5HO fixture	1.20	Waste Heat Factor_Energy	1.50	Waste Heat Factor_Demand	
Business Standard	All	Lighting	LED Refrigerated Case Lights (4, 5, and 6-foot)	1.41	Waste Heat Factor_Energy	1.41	Waste Heat Factor_Demand	
Business Standard Business Standard	AII	Lighting Lighting	LED Refrigerated Case Lights w/Doors 4ft, 5ft, or 6ft replacing Fluorescent Refrigerated Case Lights w/Doors 4ft, 5ft, or 6ft		Waste Heat Factor_Energy Waste Heat Factor Energy		Waste Heat Factor_Demand Waste Heat Factor_Demand	_
business standard	All	Lighting	LED Freezer Case Lights (4, 5, and 6-foot) LED Freezer Case Lights w/Doors 4ft, 5ft, or 6ft replacing	1.52	waste neat Factor_Energy	1.52	Waste Heat Factor_Demand	
Business Standard	All	Lighting	Fluorescent Freezer Case Lights w/Doors 4ft, 5ft, or 6ft	1.52	Waste Heat Factor_Energy	1.52	Waste Heat Factor_Demand	
Business Standard	All	Lighting	LED Downlight or Retrofit Kit ≤ 13W	1.24	Waste Heat Factor_Energy	1.51	Waste Heat Factor_Demand	
Business Standard	All	Lighting	LED Downlight or Retrofit Kit replacing 45-60W Fixture	1.24	Waste Heat Factor_Energy	1.51	Waste Heat Factor_Demand	
Business Standard	All	Lighting	LED Downlight or Retrofit Kit 14 to 21W	1.24	Waste Heat Factor_Energy	1.51	Waste Heat Factor_Demand	
Business Standard	All	Lighting	LED Downlight or Retrofit Kit replacing 61-100W Fixture	1.24	Waste Heat Factor_Energy	1.51	Waste Heat Factor_Demand	
Business Standard	All	Lighting	LED Downlight or Retrofit Kit ≥ 22W	1.24	Waste Heat Factor_Energy	1.51	Waste Heat Factor_Demand	
Business Standard	All	Lighting	LED Downlight or Retrofit Kit replacing 101-155W Fixture	1.24	Waste Heat Factor_Energy	1.51	Waste Heat Factor_Demand	
Small Business Direct Install	All	Lighting	Directional LED Bulb (<15W)	1.41	Waste Heat Factor	1.34	Waste Heat Factor	
Small Business Direct Install	All	Lighting	Directional LED Lamp replacing 50-70W Lamp	1.41	Waste Heat Factor	1.34	Waste Heat Factor	
Small Business Direct Install	All	Lighting	High Bay Fluorescent Fixture (HP T8 >4 lamps)	1.41	Waste Heat Factor	1.34	Waste Heat Factor	
Small Business Direct Install	All	Lighting	High Performance High-Bay Fluorescent Fixture T8 > 4 Lamps Replacing HID Fixture	1.41	Waste Heat Factor	1.34	Waste Heat Factor	
Small Business Direct Install	All	Lighting	High Bay Fluorescent Fixture w/ HE Electronic Ballast (T5 ≤4 lamps)		Waste Heat Factor		Waste Heat Factor	
Small Business Direct Install	All	Lighting	High-Bay Fluorescent Fixture T5 ≤ 4 Lamps w/ HE Electronic Ballast Replacing HID Fixture		Waste Heat Factor		Waste Heat Factor	
Small Business Direct Install	All	Lighting	Lighting Optimization - Remove 8ft Lamp from T8 System	1.41	Waste Heat Factor	1.34	Waste Heat Factor	
Small Business Direct Install	All	Lighting	Remove 8ft Lamp from T8 or T12 System	1.41	Waste Heat Factor	1.34	Waste Heat Factor	
Small Business Direct Install	All	Lighting	Omnidirectional LED Bulb (<10W)	1.41	Waste Heat Factor	1.34	Waste Heat Factor	
Small Business Direct Install	All	Lighting	Omnidirectional LED Lamp replacing 40-60W Lamp	1.41	Waste Heat Factor	1.34	Waste Heat Factor	
Small Business Direct Install	All	Lighting	Omnidirectional LED Bulb (≥10W)	1.41	Waste Heat Factor	1.34	Waste Heat Factor	
Small Business Direct Install	All	Lighting	Omnidirectional LED Lamp replacing 61-100W Lamp	1.41	Waste Heat Factor	1.34	Waste Heat Factor	
Small Business Direct Install	All	Lighting	Wall-Mount Occupancy Sensor	1.41	Waste Heat Factor	1.34	Waste Heat Factor	30%
Small Business Direct Install	All	Lighting	Occupancy or Vacancy Sensor Replacing No Controls	1.41	Waste Heat Factor		Waste Heat Factor	30%

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	_	•	Measure Description	
Program	Segment	End Use	Measure Name	Quantity3 Description
Business Standard	All	Lighting	LED Linear Lamp Replacing 2ft T8, T12, or T5 Lamp	
Business Standard	All	Lighting	LED 1X4 Retrofit Kit replacing T8, T12 or T5/T5HO	
Business Standard	All	Lighting	LED 1X4 Retrofit Kit replacing T8, T12 or T5/T5HO fixture	
Business Standard	All	Lighting	LED 2X4 Retrofit Kit replacing T8, T12 or T5/T5HO	
Business Standard	All	Lighting	LED 2X4 Retrofit Kit replacing T8, T12 or T5/T5HO fixture	
Business Standard	All	Lighting	LED 2X2 Retrofit Kit replacing T8, T12 or T5/T5HO	
Business Standard	All	Lighting	LED 2X2 Retrofit Kit replacing T8, T12 or T5/T5HO fixture	
Business Standard	All	Lighting	LED 1X4 Troffer or Linear Ambient replacing T8, T12 or T5/T5HO	
business Standard	All	Ligitting	LED 1X4 Troffer or Linear Ambient replacing T8, T12 or	
Business Standard	All	Lighting	T5/T5HO fixture	
n atawa Grandani		restores.	LED 2X4 Troffer or Linear Ambient replacing T8, T12 or	
Business Standard	All	Lighting	T5/T5HO	
Ducinoss Standard	All	Lighting	LED 2X4 Troffer or Linear Ambient replacing T8, T12 or	
Business Standard	All	Lighting	T5/T5HO fixture	
n dana Grandani		Delega de la compansión de	LED 2X2 Troffer or Linear Ambient replacing T8, T12 or	
Business Standard	All	Lighting	T5/T5HO	
			LED 2X2 Troffer or Linear Ambient replacing T8, T12 or	
Business Standard	All	Lighting	T5/T5HO fixture	
Business Standard	All	Lighting	LED Refrigerated Case Lights (4, 5, and 6-foot)	
Business Standard	All	Lighting	LED Refrigerated Case Lights w/Doors 4ft, 5ft, or 6ft replacing Fluorescent Refrigerated Case Lights w/Doors 4ft, 5ft, or 6ft	
Business Standard	All	Lighting	LED Freezer Case Lights (4, 5, and 6-foot)	
			LED Freezer Case Lights w/Doors 4ft, 5ft, or 6ft replacing	
Business Standard	All	Lighting	Fluorescent Freezer Case Lights w/Doors 4ft, 5ft, or 6ft	
Business Standard	All	Lighting	LED Downlight or Retrofit Kit ≤ 13W	
Business Standard	All	Lighting	LED Downlight or Retrofit Kit replacing 45-60W Fixture	
Business Standard	All	Lighting	LED Downlight or Retrofit Kit 14 to 21W	
Business Standard	All	Lighting	LED Downlight or Retrofit Kit replacing 61-100W Fixture	
Business Standard	All	Lighting	LED Downlight or Retrofit Kit ≥ 22W	
Business Standard	All	Lighting	LED Downlight or Retrofit Kit replacing 101-155W Fixture	
Small Business Direct Install	All	Lighting	Directional LED Bulb (<15W)	
Small Business Direct Install	All	Lighting	Directional LED Lamp replacing 50-70W Lamp	
Small Business Direct Install	All	Lighting	High Bay Fluorescent Fixture (HP T8 >4 lamps)	
			High Performance High-Bay Fluorescent Fixture T8 > 4 Lamps	
Small Business Direct Install	All	Lighting	Replacing HID Fixture	
			High Bay Fluorescent Fixture w/ HE Electronic Ballast (T5 ≤4	
Small Business Direct Install	All	Lighting	lamps)	
Small Business Direct Install	All	Lighting	High-Bay Fluorescent Fixture T5 ≤ 4 Lamps w/ HE Electronic Ballast Replacing HID Fixture	
Small Business Direct Install	All	Lighting	Lighting Optimization - Remove 8ft Lamp from T8 System	
Small Business Direct Install	All	Lighting	Remove 8ft Lamp from T8 or T12 System	
Small Business Direct Install	All	Lighting	Omnidirectional LED Bulb (<10W)	
Small Business Direct Install	All	Lighting	Omnidirectional LED Lamp replacing 40-60W Lamp	
Small Business Direct Install	All	Lighting	Omnidirectional LED Bulb (≥10W)	
Small Business Direct Install	All	Lighting	Omnidirectional LED Lamp replacing 61-100W Lamp	
Small Business Direct Install	All	Lighting	Wall-Mount Occupancy Sensor	ESF
aman business birect install	All	Lighting	Occupancy or Vacancy Sensor Replacing No Controls	ESF

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Column Labelt

Key 2016 To 36 months following

Search using Drop-down Filters in Headers Column Label: H I J K
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Count:	162				olumn Equation	l-		see column R	= H / L	
			Measure Description						Gros	s Measure Valu
Program	Segment	End Use	Measure Name	Primary Key	Notes	Unit Definition	Incremental Measure Cost (\$/Unit)	Electric Energy Savings (Annual kWh/unit)	Nameplate Demand Savings (kW/unit)	Peak Coincidence Factor
Small Business Direct Install	All	Lighting	Parking Garage 4'3L T5, T5HP, or T8 replacing >175W HID	0191		per fixture	\$136.00	902.2800	0.103	100%
Small Business Direct Install	All	Lighting	Parking Garage 4'3L T5, T5HP, or T8 replacing >175W fixture	0191.1		per fixture	\$136.00	902.2800	0.103	100%
Small Business Direct Install	All	Lighting	Parking Garage 4'2L T5, T5HP, or T8 replacing 101W-175W HID	0192		per fixture	\$105.00	981.1200	0.112	100%
Small Business Direct Install	All	Lighting	Parking Garage 4'2L T5, T5HP, or T8 replacing 101W-175W	0192.1		per fixture	\$105.00	981.1200	0.112	100%
Small Business Direct Install	All	Lighting	Parking Garage 4'1L T5, T5HP, or T8 replacing ≤100W HID	0193		per fixture	\$74.00	613.2000	0.070	100%
Small Business Direct Install	All	Lighting	Parking Garage 4'1L T5, T5HP, or T8 replacing ≤100W fixture	0193.1		per fixture	\$74.00	613.2000	0.070	100%
Small Business Direct Install	All	Lighting	Exterior LED replacing >400W HID	0194		per fixture	\$1,182.50	2,661.7000	0.619	0%
			Exterior LED replacing > 400W Fixture or Mogul Screw-Base							
Small Business Direct Install	All	Lighting	Lamp	0194.1		per fixture	\$1,182.50	2,661.7000	0.619	0%
Small Business Direct Install	All	Lighting	Exterior LED replacing 251-400W HID	0195		per fixture	\$535.00	1,191.1000	0.277	0%
			Exterior LED replacing 251W-400W Fixture or Mogul							
Small Business Direct Install	All	Lighting	Screw-Base Lamp	0195.1		per fixture	\$535.00	1,191.1000	0.277	0%
Small Business Direct Install	All	Lighting	Exterior LED replacing 175-250W HID	0196		per fixture	\$398.80	602.0000	0.140	0%
			Exterior LED replacing 175W-250W Fixture or Mogul							
Small Business Direct Install	All	Lighting	Screw-Base Lamp	0196.1		per fixture	\$398.80	602.0000	0.140	0%
Small Business Direct Install	All	Lighting	Exterior LED replacing <175W HID	0197		per fixture	\$299.75	490.2000	0.114	0%
			Exterior LED replacing < 175W Fixture or Mogul Screw-Base							
Small Business Direct Install	All	Lighting	Lamp	0197.1		per fixture	\$299.75	490.2000	0.114	0%
Small Business Direct Install	All	Lighting	Parking Garage LED replacing >175W HID	0198		per fixture	\$520.00	902.2800	0.103	100%
			Parking Garage LED replacing > 175W Fixture or Mogul							
Small Business Direct Install	All	Lighting	Screw-Base Lamp	0198.1		per fixture	\$520.00	902.2800	0.103	100%
Small Business Direct Install	All	Lighting	Parking Garage LED replacing 101W-175W HID	0199		per fixture	\$380.00	981.1200	0.112	100%
			Parking Garage LED replacing 101W-175W Fixture or Mogul							
Small Business Direct Install	All	Lighting	Screw-Base Lamp	0199.1		per fixture	\$380.00	981.1200	0.112	100%
Small Business Direct Install	All	Lighting	Parking Garage LED replacing ≤ 100W HID	0200		per fixture	\$320.00	613.2000	0.070	100%
			Parking Garage LED replacing ≤ 100W Fixture or Mogul							
Small Business Direct Install	All	Lighting	Screw-Base Lamp	0200.1		per fixture	\$320.00	613.2000	0.070	100%
			LED linear replacement lamp replacing a 4' T8, T12, or T5 lamp							
Small Business Direct Install	All	Lighting	(Eligible for lighting optimization if applicable to project)	0201		per fixture	\$24.00	54.4896	0.017	75%
Small Business Direct Install	All	Lighting	LED Linear Lamp Replacing 4ft T8, T12, or T5 Lamp	0201.1		per fixture	\$24.00	54.4896	0.017	75%
Small Business Direct Install	All	Lighting	LED linear replacement lamp replacing a 2-ft T8, T12 or T5 lamp	0202		per fixture	\$22.00	34.6752	0.011	75%
Small Business Direct Install	All	Lighting	LED Linear Lamp Replacing 2ft T8, T12, or T5 Lamp	0202.1		per fixture	\$22.00	34.6752	0.011	75%
Small Business Direct Install	All	Lighting	LED 1X4 Retrofit Kit replacing T8, T12 or T5/T5HO	0203		per fixture	\$155.00	199.7730	0.060	75%
Small Business Direct Install	All	Lighting	LED 1X4 Retrofit Kit replacing T8, T12 or T5/T5HO fixture	0203.1		per fixture	\$155.00	199.7730	0.060	75%
Small Business Direct Install	All	Lighting	LED 2X4 Retrofit Kit replacing T8, T12 or T5/T5HO	0204		per fixture	\$145.00	257.8703	0.078	75%
Small Business Direct Install	All	Lighting	LED 2X4 Retrofit Kit replacing T8, T12 or T5/T5HO fixture	0204.1		per fixture	\$145.00	257.8703	0.078	75%
Small Business Direct Install	All	Lighting	LED 2X2 Retrofit Kit replacing T8, T12 or T5/T5HO	0205		per fixture	\$130.00	194.8194	0.059	75%
Small Business Direct Install	All	Lighting	LED 2X2 Retrofit Kit replacing T8, T12 or T5/T5HO fixture	0205.1		per fixture	\$130.00	194.8194	0.059	75%
			LED 1X4 Troffer or Linear Ambient replacing T8, T12 or							
Small Business Direct Install	All	Lighting	T5/T5HO	0206		per fixture	\$180.00	209.6802	0.063	75%
			LED 1X4 Troffer or Linear Ambient replacing T8, T12 or	İ						
Small Business Direct Install	All	Lighting	T5/T5HO fixture	0206.1		per fixture	\$180.00	209.6802	0.063	75%
			LED 2X4 Troffer or Linear Ambient replacing T8, T12 or	İ						
Small Business Direct Install	All	Lighting	T5/T5HO	0207		per fixture	\$170.00	257.8703	0.078	75%

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	1	1	Measure Description	ies		1		1
Program	Segment	End Use	Measure Name	Coincident Peak Demand Savings (kW/unit)	Annual Operating Hours	Measure Life (Years)	Measure Definition	Measure Efficiency Value
Small Business Direct Install	All	Lighting	Parking Garage 4'3L T5, T5HP, or T8 replacing >175W HID	0.1030	8,760	6	4-ft 3L to 4L 4' T5, T5HO or T8	155
Small Business Direct Install	All	Lighting	Parking Garage 4'3L T5, T5HP, or T8 replacing >175W fixture	0.1030	8,760	6	4-ft 3L to 4L 4' T5, T5HO or T8	155
Small Business Direct Install	All	Lighting	Parking Garage 4'2L T5, T5HP, or T8 replacing 101W-175W HID	0.1120	8,760	6	4-ft 2L to 3L 4' T5, T5HO or T8	84
Small Business Direct Install	All	Lighting	Parking Garage 4'2L T5, T5HP, or T8 replacing 101W-175W	0.1120	8,760	6	4-ft 2L to 3L 4' T5, T5HO or T8	84
Small Business Direct Install	All	Lighting	Parking Garage 4'1L T5, T5HP, or T8 replacing ≤100W HID	0.0700	8,760	6	4-ft 1L to 2L 4' T5, T5HO or T8	54
Small Business Direct Install	All	Lighting	Parking Garage 4'1L T5, T5HP, or T8 replacing ≤100W fixture	0.0700	8,760	6	4-ft 1L to 2L 4' T5, T5HO or T8	54
Small Business Direct Install	All	Lighting	Exterior LED replacing >400W HID	0.0000	4,300	12	LED Exterior Lighting Fixtures (Includes	412
			Exterior LED replacing > 400W Fixture or Mogul Screw-Base					
Small Business Direct Install	All	Lighting	Lamp	0.0000	4,300	12	LED Exterior Lighting Fixtures (Includes	
Small Business Direct Install	All	Lighting	Exterior LED replacing 251-400W HID	0.0000	4,300	12	LED Exterior Lighting Fixtures (Includes	167
			Exterior LED replacing 251W-400W Fixture or Mogul					
Small Business Direct Install	All	Lighting	Screw-Base Lamp	0.0000	4,300	12	LED Exterior Lighting Fixtures (Includes	167
Small Business Direct Install	All	Lighting	Exterior LED replacing 175-250W HID	0.0000	4,300	12	LED Exterior Lighting Fixtures (Includes	82
Carall Dusiness Diseast Install	All	liebaie e	Exterior LED replacing 175W-250W Fixture or Mogul	0.0000	4 300	12	LED Estadion Linkting First and Analysis	0.2
Small Business Direct Install	All	Lighting	Screw-Base Lamp	0.0000	4,300 4,300	12 12	LED Exterior Lighting Fixtures (Includes	82 37
Small Business Direct Install	All	Lighting	Exterior LED replacing < 175W HID Exterior LED replacing < 175W Fixture or Mogul Screw-Base	0.0000	4,300	12	LED Exterior Lighting Fixtures (Includes	3/
Small Business Direct Install	All	Lighting		0.0000	4,300	12	LED Exterior Lighting Fixtures (Includes	37
Small Business Direct Install	All	Lighting Lighting	Lamp Parking Garage LED replacing >175W HID	0.1030	8,760	6	LED Exterior Lighting Fixtures (Includes LED Parking Garage Lighting Fixtures	155
Siliali Busilless Direct ilistali	All	Ligitting	Parking Garage LED replacing > 175W Fixture or Mogul	0.1030	8,700	U	LED Farking Garage Lighting Fixtures	133
Small Business Direct Install	All	Lighting	Screw-Base Lamp	0.1030	8,760	6	LED Parking Garage Lighting Fixtures	155
Small Business Direct Install	All	Lighting	Parking Garage LED replacing 101W-175W HID	0.1120	8,760	6	LED Parking Garage Lighting Fixtures LED Parking Garage Lighting Fixtures	84
Sman Business Birect mstan	All	Ligituing	Parking Garage LED replacing 101W-175W Fixture or Mogul	0.1120	0,700	- U	LED Farking Garage Lighting Fixtures	04
Small Business Direct Install	All	Lighting	Screw-Base Lamp	0.1120	8,760	6	LED Parking Garage Lighting Fixtures	84
Small Business Direct Install	All	Lighting	Parking Garage LED replacing ≤ 100W HID	0.0700	8,760	6	LED Parking Garage Lighting Fixtures	54
oman paomess pineet motan		2.88	Parking Garage LED replacing ≤ 100W Fixture or Mogul	0.07.00	3). 33		225 - ariting carage 2.g. tang r steares	<u> </u>
Small Business Direct Install	All	Lighting	Screw-Base Lamp	0.0700	8,760	6	LED Parking Garage Lighting Fixtures	54
			LED linear replacement lamp replacing a 4' T8, T12, or T5 lamp	3101.00	3/100			
Small Business Direct Install	All	Lighting	(Eligible for lighting optimization if applicable to project)	0.0124	4,128	12	4-ft LED Linear Replacement Lamps	18
Small Business Direct Install	All	Lighting	LED Linear Lamp Replacing 4ft T8, T12, or T5 Lamp	0.0124	4,128	12	4-ft LED Linear Replacement Lamps	18
Sinaii Business Direct ilistali	All	Ligituing	LED Linear Lamp Replacing 410 18, 112, or 13 Lamp	0.0124	4,120	12	4-11 LED Linear Replacement Lamps	10
Small Business Direct Install	All	Lighting	LED linear replacement lamp replacing a 2-ft T8, T12 or T5 lamp	0.0079	4,128	12	2-ft LED Linear Replacement Lamps	10
Small Business Direct Install	All	Lighting	LED Linear Lamp Replacing 2ft T8, T12, or T5 Lamp	0.0079	4,128	12	2-ft LED Linear Replacement Lamps	10
Small Business Direct Install	All	Lighting	LED 1X4 Retrofit Kit replacing T8, T12 or T5/T5HO	0.0454	4,128	12	LED 1X4 Retrofit Kits	37
Small Business Direct Install	All	Lighting	LED 1X4 Retrofit Kit replacing T8, T12 or T5/T5HO fixture	0.0454	4,128	12	LED 1X4 Retrofit Kits	37
Small Business Direct Install	All	Lighting	LED 2X4 Retrofit Kit replacing T8, T12 or T5/T5HO	0.0586	4,128	12	LED 2X4 Retrofit Kits	46
Small Business Direct Install	All	Lighting	LED 2X4 Retrofit Kit replacing T8, T12 or T5/T5HO fixture	0.0586	4,128	12	LED 2X4 Retrofit Kits	46
Small Business Direct Install	All	Lighting	LED 2X2 Retrofit Kit replacing T8, T12 or T5/T5HO	0.0442	4,128	12	LED 2X2 Retrofit Kits	38
Small Business Direct Install	All	Lighting	LED 2X2 Retrofit Kit replacing T8, T12 or T5/T5HO fixture	0.0442	4,128	12	LED 2X2 Retrofit Kits	38
	1		LED 1X4 Troffer or Linear Ambient replacing T8, T12 or					
Small Business Direct Install	All	Lighting	T5/T5HO	0.0476	4,128	12	LED 1X4 Troffer or Linear Ambient Fixto	35
	1		LED 1X4 Troffer or Linear Ambient replacing T8, T12 or					
Small Business Direct Install	All	Lighting	T5/T5HO fixture	0.0476	4,128	12	LED 1X4 Troffer or Linear Ambient Fixt	35
	l		LED 2X4 Troffer or Linear Ambient replacing T8, T12 or					
Small Business Direct Install	All	Lighting	T5/T5HO	0.0586	4,128	12	LED 2X2 Troffer or Linear Ambient Fixt	46

ndicates default plan values that can be adjusted for unique installations.

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unique installations.

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			Measure Description		1	Algorithms
Program	Segment	End Use	Measure Name	Baseline Definition	Baseline Efficiency Value	Electric Energy Savings Algorithm
Small Business Direct Install	All	Lighting	Parking Garage 4'3L T5, T5HP, or T8 replacing >175W HID	200W - 250W HID Fixture	258	=ROUND((R211-P211)*(AC211)*M211/1000,4)
Small Business Direct Install	All	Lighting	Parking Garage 4'3L T5, T5HP, or T8 replacing >175W fixture	200W - 250W HID Fixture	258	=ROUND((R212-P212)*(AC212)*M212/1000,4)
Small Business Direct Install	All	Lighting	Parking Garage 4'2L T5, T5HP, or T8 replacing 101W-175W HID	125W - 175W HID Fixture	196	=ROUND((R213-P213)*(AC213)*M213/1000,4)
Small Business Direct Install	All	Lighting	Parking Garage 4'2L T5, T5HP, or T8 replacing 101W-175W	125W - 175W HID Fixture	196	=ROUND((R214-P214)*(AC214)*M214/1000,4)
Small Business Direct Install	All	Lighting	Parking Garage 4'1L T5, T5HP, or T8 replacing ≤100W HID	≤ 100 W HID Fixture	124	=ROUND((R215-P215)*(AC215)*M215/1000,4)
Small Business Direct Install	All	Lighting	Parking Garage 4'1L T5, T5HP, or T8 replacing ≤100W fixture	≤ 100 W HID Fixture	124	=ROUND((R216-P216)*(AC216)*M216/1000,4)
Small Business Direct Install	All	Lighting	Exterior LED replacing >400W HID	> 400 W HID Fixture	1031	=ROUND((R217-P217)*(AC217)*M217/1000,4)
		0 - 0	Exterior LED replacing > 400W Fixture or Mogul Screw-Base			7 (2) / 222/
Small Business Direct Install	All	Lighting	Lamp	> 400 W HID Fixture	1031	=ROUND((R218-P218)*(AC218)*M218/1000,4)
Small Business Direct Install	All	Lighting	Exterior LED replacing 251-400W HID	320 W Pulse Start and 400W MH/HPS Fix	444	=ROUND((R219-P219)*(AC219)*M219/1000,4)
Small Business Direct Install	All	Lighting	Exterior LED replacing 251W-400W Fixture or Mogul Screw-Base Lamp	320 W Pulse Start and 400W MH/HPS Fix	444	=ROUND((R220-P220)*(AC220)*M220/1000,4)
Small Business Direct Install	All	Lighting	Exterior LED replacing 175-250W HID	175 W HID - 250 W HID Fixture	222	=ROUND((R221-P221)*(AC221)*M221/1000,4)
ornan Business Direct Histan	All	Ligitting	Exterior LED replacing 1754-250W Fixture or Mogul	173 W HID - 230 W HID FIXTURE	222	-ROOND((R221-F221) (AC221) WI221/1000,4)
Small Business Direct Install	All	Lighting	Screw-Base Lamp	175 W HID - 250 W HID Fixture	222	=ROUND((R222-P222)*(AC222)*M222/1000,4)
Small Business Direct Install	All	Lighting	Exterior LED replacing <175W HID	< 175 W HID Fixture	151	=ROUND((R223-P223)*(AC223)*M223/1000,4)
		0 - 0	Exterior LED replacing < 175W Fixture or Mogul Screw-Base			27 (2 2) 27 27 27
mall Business Direct Install	All	Lighting	Lamp	< 175 W HID Fixture	151	=ROUND((R224-P224)*(AC224)*M224/1000,4)
mall Business Direct Install	All	Lighting	Parking Garage LED replacing >175W HID	200W - 250W HID Fixture	258	=ROUND((R225-P225)*(AC225)*M225/1000,4)
			Parking Garage LED replacing > 175W Fixture or Mogul			
mall Business Direct Install	All	Lighting	Screw-Base Lamp	200W - 250W HID Fixture	258	=ROUND((R226-P226)*(AC226)*M226/1000,4)
mall Business Direct Install	All	Lighting	Parking Garage LED replacing 101W-175W HID	125W - 175W HID Fixture	196	=ROUND((R227-P227)*(AC227)*M227/1000,4)
			Parking Garage LED replacing 101W-175W Fixture or Mogul			
Small Business Direct Install	All	Lighting	Screw-Base Lamp	125W - 175W HID Fixture	196	=ROUND((R228-P228)*(AC228)*M228/1000,4)
mall Business Direct Install	All	Lighting	Parking Garage LED replacing ≤ 100W HID	≤ 100 W HID Fixture	124	=ROUND((R229-P229)*(AC229)*M229/1000,4)
			Parking Garage LED replacing ≤ 100W Fixture or Mogul			
Small Business Direct Install	All	Lighting	Screw-Base Lamp	≤ 100 W HID Fixture	124	=ROUND((R230-P230)*(AC230)*M230/1000,4)
			LED linear replacement lamp replacing a 4' T8, T12, or T5 lamp			
Small Business Direct Install	All	Lighting	(Eligible for lighting optimization if applicable to project)	32W 4-ft T8 with Electronic NBF Ballast	29	=ROUND((R231-P231)*(AC231)*M231/1000,4)
mall Business Direct Install	All	Lighting	LED Linear Lamp Replacing 4ft T8, T12, or T5 Lamp	32W 4-ft T8 with Electronic NBF Ballast	29	=ROUND((R232-P232)*(AC232)*M232/1000,4)
		0 - 0				, , , , , , , , , , , , , , , , , , , ,
mall Business Direct Install	All	Lighting	LED linear replacement lamp replacing a 2-ft T8, T12 or T5 lamp	17W 2-ft T8 with Electronic NBF Ballast	17	=ROUND((R233-P233)*(AC233)*M233/1000,4)
mall Business Direct Install	All	Lighting	LED Linear Lamp Replacing 2ft T8, T12, or T5 Lamp	17W 2-ft T8 with Electronic NBF Ballast	17	=ROUND((R234-P234)*(AC234)*M234/1000,4)
mall Business Direct Install	All	Lighting	LED 1X4 Retrofit Kit replacing T8, T12 or T5/T5HO	1x4 T8, T12 or T5 Fluorescents	77	=ROUND((R235-P235)*(AC235)*M235/1000,4)
mall Business Direct Install	All	Lighting	LED 1X4 Retrofit Kit replacing T8, T12 or T5/T5HO fixture	1x4 T8, T12 or T5 Fluorescents	77	=ROUND((R236-P236)*(AC236)*M236/1000,4)
mall Business Direct Install	All	Lighting	LED 2X4 Retrofit Kit replacing T8, T12 or T5/T5HO	2x4 T8, T12 or T5 Fluorescents	98	=ROUND((R237-P237)*(AC237)*M237/1000,4)
mall Business Direct Install	All	Lighting	LED 2X4 Retrofit Kit replacing T8, T12 or T5/T5HO fixture	2x4 T8, T12 or T5 Fluorescents	98	=ROUND((R238-P238)*(AC238)*M238/1000,4)
mall Business Direct Install	All	Lighting	LED 2X2 Retrofit Kit replacing T8, T12 or T5/T5HO	2x2 T8, T12 or T5 Fluorescents	77	=ROUND((R239-P239)*(AC239)*M239/1000,4)
mall Business Direct Install	All	Lighting	LED 2X2 Retrofit Kit replacing T8, T12 or T5/T5HO fixture	2x2 T8, T12 or T5 Fluorescents	77	=ROUND((R240-P240)*(AC240)*M240/1000,4)
	1	1	LED 1X4 Troffer or Linear Ambient replacing T8, T12 or			
Small Business Direct Install	All	Lighting	T5/T5HO	1X4 Troffer or Linear Ambient T8, T12 or	77	=ROUND((R241-P241)*(AC241)*M241/1000,4)
			LED 1X4 Troffer or Linear Ambient replacing T8, T12 or			
mall Business Direct Install	All	Lighting	T5/T5HO fixture	1X4 Troffer or Linear Ambient T8, T12 or	77	=ROUND((R242-P242)*(AC242)*M242/1000,4)
	1	1	LED 2X4 Troffer or Linear Ambient replacing T8, T12 or			
Small Business Direct Install	All	Lighting	T5/T5HO	2X4 Troffer or Linear Ambient T8, T12 or	98	=ROUND((R243-P243)*(AC243)*M243/1000,4)

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	1		Measure Description			
Program	Segment	End Use	Measure Name	Incentive Definition	Net to Gross Ratio (NTG)	Net Electric Energy Savings (Annual kWh/unit)
Small Business Direct Install	All	Lighting	Parking Garage 4'3L T5, T5HP, or T8 replacing >175W HID	Min of 50% Incremental Cost or \$0.10/kWh with so	100%	902.28
Small Business Direct Install Small Business Direct Install	All	Lighting Lighting	Parking Garage 4'3L T5, T5HP, or T8 replacing >175W fixture	per unit Min of 50% Incremental Cost or \$0.10/kWh with so	100%	902.28 981.12
Small Business Direct Install	All		Parking Garage 4'2L T5, T5HP, or T8 replacing 101W-175W HID Parking Garage 4'2L T5, T5HP, or T8 replacing 101W-175W	per unit	100%	981.12
Small Business Direct Install	All	Lighting Lighting	Parking Garage 4'1L T5, T5HP, or T8 replacing ≤100W HID	Min of 50% Incremental Cost or \$0.10/kWh with so	100%	613.20
Siliali Busilless Direct Ilistali	All	Lighting	raiking Garage 4 IL 13, 13HF, or 18 replacing \$100W HID	Will of 30% incremental cost of 30.10/kWil with so	100%	015.20
Small Business Direct Install	All	Lighting	Parking Garage 4'1L T5, T5HP, or T8 replacing ≤100W fixture	per unit	100%	613.20
Small Business Direct Install	All	Lighting	Exterior LED replacing >400W HID	Min of 50% Incremental Cost or \$0.10/kWh with so	100%	2,661.70
			Exterior LED replacing > 400W Fixture or Mogul Screw-Base			,
Small Business Direct Install	All	Lighting	Lamp	per unit	100%	2,661.70
Small Business Direct Install	All	Lighting	Exterior LED replacing 251-400W HID	Min of 50% Incremental Cost or \$0.10/kWh with so	100%	1,191.10
			Exterior LED replacing 251W-400W Fixture or Mogul			·
Small Business Direct Install	All	Lighting	Screw-Base Lamp	per unit	100%	1,191.10
Small Business Direct Install	All	Lighting	Exterior LED replacing 175-250W HID	Min of 50% Incremental Cost or \$0.10/kWh with so	100%	602.00
			Exterior LED replacing 175W-250W Fixture or Mogul			
Small Business Direct Install	All	Lighting	Screw-Base Lamp	per unit	100%	602.00
Small Business Direct Install	All	Lighting	Exterior LED replacing <175W HID	Min of 50% Incremental Cost or \$0.10/kWh with so	100%	490.20
			Exterior LED replacing < 175W Fixture or Mogul Screw-Base			
Small Business Direct Install	All	Lighting	Lamp	per unit	100%	490.20
Small Business Direct Install	All	Lighting	Parking Garage LED replacing >175W HID	Min of 50% Incremental Cost or \$0.10/kWh with so	100%	902.28
			Parking Garage LED replacing > 175W Fixture or Mogul			
Small Business Direct Install	All	Lighting	Screw-Base Lamp	per unit	100%	902.28
Small Business Direct Install	All	Lighting	Parking Garage LED replacing 101W-175W HID	Min of 50% Incremental Cost or \$0.10/kWh with so	100%	981.12
			Parking Garage LED replacing 101W-175W Fixture or Mogul			
Small Business Direct Install	All	Lighting	Screw-Base Lamp	per unit	100%	981.12
Small Business Direct Install	All	Lighting	Parking Garage LED replacing ≤ 100W HID	Min of 50% Incremental Cost or \$0.10/kWh with so	100%	613.20
			Parking Garage LED replacing ≤ 100W Fixture or Mogul			
Small Business Direct Install	All	Lighting	Screw-Base Lamp	per unit	100%	613.20
			LED linear replacement lamp replacing a 4' T8, T12, or T5 lamp			
Small Business Direct Install	All	Lighting	(Eligible for lighting optimization if applicable to project)	Approximately \$0.15/kWh; Keeping equitable with	100%	54.49
Small Business Direct Install	All	Lighting	LED Linear Lamp Replacing 4ft T8, T12, or T5 Lamp	per unit	100%	54.49
Small Business Direct Install	All	Lighting	LED linear replacement lamp replacing a 2-ft T8, T12 or T5 lamp		100%	34.68
Small Business Direct Install	All	Lighting	LED Linear Lamp Replacing 2ft T8, T12, or T5 Lamp	per unit	100%	34.68
Small Business Direct Install	All	Lighting	LED 1X4 Retrofit Kit replacing T8, T12 or T5/T5HO	Targeted a bit above 25% of IMC between \$0.16-\$0	100%	199.77
Small Business Direct Install	All	Lighting	LED 1X4 Retrofit Kit replacing T8, T12 or T5/T5HO fixture	per unit	100%	199.77
Small Business Direct Install	All	Lighting	LED 2X4 Retrofit Kit replacing T8, T12 or T5/T5HO	Targeted a bit above 25% of IMC between \$0.16-\$0	100%	257.87
Small Business Direct Install	All	Lighting	LED 2X4 Retrofit Kit replacing T8, T12 or T5/T5HO fixture	per unit	100%	257.87
Small Business Direct Install	All	Lighting	LED 2X2 Retrofit Kit replacing T8, T12 or T5/T5HO	Targeted a bit above 25% of IMC between \$0.16-\$0	100%	194.82
Small Business Direct Install	All	Lighting	LED 2X2 Retrofit Kit replacing T8, T12 or T5/T5HO fixture	per unit	100%	194.82
Carall Dustages Division 1	A.II	I talest	LED 1X4 Troffer or Linear Ambient replacing T8, T12 or	Township of the boundary of the Charles and the de-	40001	200.50
Small Business Direct Install	All	Lighting	T5/T5HO	Targeted a bit above 25% of IMC between \$0.16-\$0	100%	209.68
Constitution of Discouling the	A.II	1:= =+:	LED 1X4 Troffer or Linear Ambient replacing T8, T12 or		40001	200.50
Small Business Direct Install	All	Lighting	T5/T5HO fixture	per unit	100%	209.68
Corell Dustages Division 1991	All	I talest	LED 2X4 Troffer or Linear Ambient replacing T8, T12 or	Townstad a hit above 2007 of the box and do do do	40001	257.05
Small Business Direct Install	All	Lighting	T5/T5HO	Targeted a bit above 25% of IMC between \$0.16-\$0	100%	257.87

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Count:	162		Measure Description						Sup
					Date of Data	Effective Start	Effective End	Cooling Degree	Heating Degree
Program	Segment	End Use	Measure Name	Data Source	Revision	Date	Date	Days (CDD)	Days (HDD)
Small Business Direct Install	All	Lighting	Parking Garage 4'3L T5, T5HP, or T8 replacing >175W HID	IN TRM	11/4/2015	4/1/2016	3/31/2017		
Small Business Direct Install	All	Lighting	Parking Garage 4'3L T5, T5HP, or T8 replacing >175W fixture	IN TRM	2/1/2017	4/1/2017			
Small Business Direct Install	All	Lighting	Parking Garage 4'2L T5, T5HP, or T8 replacing 101W-175W HID	IN TRM	1/0/1900	4/1/2016	3/31/2017		
Small Business Direct Install	All	Lighting	Parking Garage 4'2L T5, T5HP, or T8 replacing 101W-175W	IN TRM	2/1/2017	4/1/2017	5,55,555		
Small Business Direct Install	All	Lighting	Parking Garage 4'1L T5, T5HP, or T8 replacing ≤100W HID	IN TRM	1/0/1900	4/1/2016	3/31/2017		
Small Business Direct Install	All	Lighting	Parking Garage 4'1L T5, T5HP, or T8 replacing ≤100W fixture	IN TRM	2/1/2017	4/1/2017			
Small Business Direct Install	All	Lighting	Exterior LED replacing >400W HID	IN TRM	1/0/1900	4/1/2016	3/31/2017		
oman pasmess pricet motan	,	2.88	Exterior LED replacing > 400W Fixture or Mogul Screw-Base		2/0/2500	., 1, 2010	3/31/2017		
Small Business Direct Install	All	Lighting	Lamp	IN TRM	2/1/2017	4/1/2017			1
Small Business Direct Install	All	Lighting	Exterior LED replacing 251-400W HID	IN TRM	1/0/1900	4/1/2016	3/31/2017		
		-8	Exterior LED replacing 251W-400W Fixture or Mogul		2,0,200	1, 2, 2222	0,00,000		
Small Business Direct Install	AII	Lighting	Screw-Base Lamp	IN TRM	2/1/2017	4/1/2017			1
Small Business Direct Install	All	Lighting	Exterior LED replacing 175-250W HID	IN TRM	1/0/1900	4/1/2016	3/31/2017		
		0 1 0	Exterior LED replacing 175W-250W Fixture or Mogul		7.7	, ,	.,.,		
Small Business Direct Install	All	Lighting	Screw-Base Lamp	IN TRM	2/1/2017	4/1/2017			1
Small Business Direct Install	All	Lighting	Exterior LED replacing <175W HID	IN TRM	1/0/1900	4/1/2016	3/31/2017		
			Exterior LED replacing < 175W Fixture or Mogul Screw-Base						
Small Business Direct Install	All	Lighting	Lamp	IN TRM	2/1/2017	4/1/2017			1
Small Business Direct Install	All	Lighting	Parking Garage LED replacing >175W HID	IN TRM	11/4/2015	4/1/2016	3/31/2017		
			Parking Garage LED replacing > 175W Fixture or Mogul						
Small Business Direct Install	All	Lighting	Screw-Base Lamp	IN TRM	2/1/2017	4/1/2017			1
Small Business Direct Install	All	Lighting	Parking Garage LED replacing 101W-175W HID	IN TRM	1/0/1900	4/1/2016	3/31/2017		
			Parking Garage LED replacing 101W-175W Fixture or Mogul						
Small Business Direct Install	All	Lighting	Screw-Base Lamp	IN TRM	2/1/2017	4/1/2017			1
Small Business Direct Install	All	Lighting	Parking Garage LED replacing ≤ 100W HID	IN TRM	1/0/1900	4/1/2016	3/31/2017		
			Parking Garage LED replacing ≤ 100W Fixture or Mogul						
Small Business Direct Install	All	Lighting	Screw-Base Lamp	IN TRM	2/1/2017	4/1/2017			
			LED linear replacement lamp replacing a 4' T8, T12, or T5 lamp						1
Small Business Direct Install	All	Lighting	(Eligible for lighting optimization if applicable to project)	Weighted Average using IN TRM	1/0/1900	4/1/2016	3/31/2017		
Small Business Direct Install	All	Lighting	LED Linear Lamp Replacing 4ft T8, T12, or T5 Lamp	Weighted Average using IN TRM	2/1/2017	4/1/2017			1
							- 1 1		
Small Business Direct Install	All	Lighting	LED linear replacement lamp replacing a 2-ft T8, T12 or T5 lamp		1/0/1900	4/1/2016	3/31/2017		
Small Business Direct Install	All	Lighting	LED Linear Lamp Replacing 2ft T8, T12, or T5 Lamp	Weighted Average using IN TRM	2/1/2017	4/1/2017			
Small Business Direct Install	All	Lighting	LED 1X4 Retrofit Kit replacing T8, T12 or T5/T5HO	Weighted Average using IN TRM	1/0/1900	4/1/2016	3/31/2017		
Small Business Direct Install	All	Lighting	LED 1X4 Retrofit Kit replacing T8, T12 or T5/T5HO fixture	Weighted Average using IN TRM	2/1/2017	4/1/2017			
Small Business Direct Install	All	Lighting	LED 2X4 Retrofit Kit replacing T8, T12 or T5/T5HO	Weighted Average using IN TRM	1/0/1900	4/1/2016	3/31/2017		
Small Business Direct Install	All	Lighting	LED 2X4 Retrofit Kit replacing T8, T12 or T5/T5HO fixture	Weighted Average using IN TRM	2/1/2017	4/1/2017	2 /2 - /2		
Small Business Direct Install	All	Lighting	LED 2X2 Retrofit Kit replacing T8, T12 or T5/T5HO	Weighted Average using IN TRM	1/0/1900	4/1/2016	3/31/2017		
Small Business Direct Install	All	Lighting	LED 2X2 Retrofit Kit replacing T8, T12 or T5/T5HO fixture	Weighted Average using IN TRM	2/1/2017	4/1/2017			
Could be advantaged and the first		12.1.1.	LED 1X4 Troffer or Linear Ambient replacing T8, T12 or	W. C. L. C. C. C. C. C. C. C. C. C. C. C. C. C.	4/0/2005	1/1/2016	2/24/2215		ĺ
Small Business Direct Install	All	Lighting	T5/T5HO	Weighted Average using IN TRM	1/0/1900	4/1/2016	3/31/2017		
Guell Bustern St. 11 11	l.,,	11.1.1.1	LED 1X4 Troffer or Linear Ambient replacing T8, T12 or	W. C. L. J. A. L. L. L. L. L. L. L. L. L. L. L. L. L.	2/1/2015	4/4/2017			ĺ
Small Business Direct Install	All	Lighting	T5/T5HO fixture	Weighted Average using IN TRM	2/1/2017	4/1/2017			
Corell Dissipace Disease In 1979	l _{au}	I talesta a	LED 2X4 Troffer or Linear Ambient replacing T8, T12 or	Weighted Avenue value IN TOTA	1/0/1000	4/1/2016	2/24/2047		1
Small Business Direct Install	All	Lighting	T5/T5HO	Weighted Average using IN TRM	1/0/1900	4/1/2016	3/31/2017		<u> </u>

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		_	Measure Description	porting Inform	ation			
Program	Segment	End Use	Measure Name	Quantity1	Quantity1 Description	Quantity2	Quantity2 Description	Quantity3
Small Business Direct Install	All	Lighting	Parking Garage 4'3L T5, T5HP, or T8 replacing >175W HID	1.00	Waste Heat Factor_Energy	1.00	Waste Heat Factor_Demand	
Small Business Direct Install	All	Lighting	Parking Garage 4'3L T5, T5HP, or T8 replacing >175W fixture	1.00	Waste Heat Factor_Energy	1.00	Waste Heat Factor_Demand	
Small Business Direct Install	All	Lighting	Parking Garage 4'2L T5, T5HP, or T8 replacing 101W-175W HID	1.00	Waste Heat Factor_Energy	1.00	Waste Heat Factor_Demand	
Small Business Direct Install	All	Lighting	Parking Garage 4'2L T5, T5HP, or T8 replacing 101W-175W	1.00	Waste Heat Factor_Energy	1.00	Waste Heat Factor_Demand	
Small Business Direct Install	All	Lighting	Parking Garage 4'1L T5, T5HP, or T8 replacing ≤100W HID	1.00	Waste Heat Factor_Energy	1.00	Waste Heat Factor_Demand	
Small Business Direct Install	All	Lighting	Parking Garage 4'1L T5, T5HP, or T8 replacing ≤100W fixture	1.00	Waste Heat Factor_Energy	1.00	Waste Heat Factor_Demand	
Small Business Direct Install	All	Lighting	Exterior LED replacing >400W HID	1.00	Waste Heat Factor_Energy	1.00	Waste Heat Factor_Demand	
Small Business Direct Install	All	Lighting	Exterior LED replacing > 400W Fixture or Mogul Screw-Base Lamp	1.00	Waste Heat Factor Energy	1.00	Waste Heat Factor Demand	
Small Business Direct Install	All	Lighting Lighting	Exterior LED replacing 251-400W HID	1.00		_	_	
Small Business Direct ilistali	All	Lighting	Exterior LED replacing 251-400W Fixture or Mogul	1.00	waste Heat Factor_Ellergy	1.00	Waste Heat Factor_Deliland	
Small Business Direct Install	All	Lighting	Screw-Base Lamp	1.00	Waste Heat Factor Energy	1.00	Waste Heat Factor Demand	
Small Business Direct Install	All	Lighting	Exterior LED replacing 175-250W HID	1.00	,	_	Waste Heat Factor Demand	
			Exterior LED replacing 175W-250W Fixture or Mogul				_	
Small Business Direct Install	All	Lighting	Screw-Base Lamp	1.00	Waste Heat Factor_Energy	1.00	Waste Heat Factor_Demand	
Small Business Direct Install	All	Lighting	Exterior LED replacing <175W HID	1.00	Waste Heat Factor_Energy	1.00	Waste Heat Factor_Demand	
Carall Dusia and Disast Install	All	liebtie e	Exterior LED replacing < 175W Fixture or Mogul Screw-Base	1.00	Masta Hast Faster Faster	1.00	Wests Heat Faster, Dames d	
Small Business Direct Install Small Business Direct Install	All	Lighting	Lamp Parking Garage LED replacing >175W HID	1.00	Waste Heat Factor_Energy		Waste Heat Factor_Demand Waste Heat Factor_Demand	
Small Business Direct Install	All	Lighting	Parking Garage LED replacing > 175W Fixture or Mogul	1.00	Waste Heat Factor_Energy	1.00	waste Heat Factor_Demand	
Small Business Direct Install	All	Lighting	Screw-Base Lamp	1.00	Waste Heat Factor_Energy	1.00	Waste Heat Factor_Demand	
Small Business Direct Install	All	Lighting	Parking Garage LED replacing 101W-175W HID		Waste Heat Factor Energy		Waste Heat Factor Demand	
Sman Business Bireet mstan	All	Ligitang	Parking Garage LED replacing 101W-175W Fixture or Mogul	1.00	waste fleat factor_Energy	1.00	waste freat factor_bernand	
Small Business Direct Install	All	Lighting	Screw-Base Lamp	1.00	Waste Heat Factor_Energy	1.00	Waste Heat Factor Demand	
Small Business Direct Install	All	Lighting	Parking Garage LED replacing ≤ 100W HID		Waste Heat Factor Energy	_	Waste Heat Factor Demand	
		0 - 0	Parking Garage LED replacing ≤ 100W Fixture or Mogul					
Small Business Direct Install	All	Lighting	Screw-Base Lamp	1.00	Waste Heat Factor_Energy	1.00	Waste Heat Factor_Demand	
			LED linear replacement lamp replacing a 4' T8, T12, or T5 lamp					
Small Business Direct Install	All	Lighting	(Eligible for lighting optimization if applicable to project)	1.20	Waste Heat Factor Energy	1.50	Waste Heat Factor Demand	
Small Business Direct Install	All	Lighting	LED Linear Lamp Replacing 4ft T8, T12, or T5 Lamp	1.20	Waste Heat Factor_Energy	1.50	Waste Heat Factor_Demand	
Constitution of Discot Locatell	All	liahata a	LED linear replacement lamp replacing a 2 ft T0. T12 or TE lamp	1.20	Marta Hart Forton France	1.50	Wests Heat Faster Daniel	
Small Business Direct Install	All	Lighting	LED linear replacement lamp replacing a 2-ft T8, T12 or T5 lamp		Waste Heat Factor_Energy	_	Waste Heat Factor_Demand	_
Small Business Direct Install Small Business Direct Install	All	Lighting Lighting	LED Linear Lamp Replacing 2ft T8, T12, or T5 Lamp LED 1X4 Retrofit Kit replacing T8, T12 or T5/T5HO		Waste Heat Factor_Energy Waste Heat Factor Energy	_	Waste Heat Factor_Demand Waste Heat Factor_Demand	+
Small Business Direct Install	All	Lighting	LED 1X4 Retrofit Kit replacing T8, T12 or T5/T5HO fixture		Waste Heat Factor_Energy Waste Heat Factor Energy	_	Waste Heat Factor_Demand Waste Heat Factor Demand	+
Small Business Direct Install	All	Lighting	LED 2X4 Retrofit Kit replacing T8, T12 or T5/T5HO HXture	1.20	Waste Heat Factor_Energy Waste Heat Factor Energy	_	Waste Heat Factor Demand	+
Small Business Direct Install	All	Lighting	LED 2X4 Retrofit Kit replacing T8, T12 or T5/T5HO fixture		Waste Heat Factor_Energy Waste Heat Factor_Energy	_	Waste Heat Factor Demand	
Small Business Direct Install	All	Lighting	LED 2X2 Retrofit Kit replacing T8, T12 or T5/T5HO	1.20			Waste Heat Factor Demand	
Small Business Direct Install	All	Lighting	LED 2X2 Retrofit Kit replacing T8, T12 or T5/T5HO fixture		Waste Heat Factor_Energy		Waste Heat Factor_Demand	
			LED 1X4 Troffer or Linear Ambient replacing T8, T12 or				_	
Small Business Direct Install	All	Lighting	т5/т5НО	1.20	Waste Heat Factor_Energy	1.50	Waste Heat Factor_Demand	
			LED 1X4 Troffer or Linear Ambient replacing T8, T12 or					
Small Business Direct Install	All	Lighting	T5/T5HO fixture	1.20	Waste Heat Factor_Energy	1.50	Waste Heat Factor_Demand	
Small Business Direct Install	All	Lighting	LED 2X4 Troffer or Linear Ambient replacing T8, T12 or T5/T5HO	1.20	Waste Heat Factor Energy	1.50	Waste Heat Factor Demand	
	1: "	0	11	1.20		1.50		

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			Measure Description	
Program	Segment	End Use	Measure Name	Quantity3 Description
Small Business Direct Install	All	Lighting	Parking Garage 4'3L T5, T5HP, or T8 replacing >175W HID	
Small Business Direct Install	All	Lighting	Parking Garage 4'3L T5, T5HP, or T8 replacing >175W fixture	
Small Business Direct Install	All	Lighting	Parking Garage 4'2L T5, T5HP, or T8 replacing 101W-175W HID	
Small Business Direct Install	All	Lighting	Parking Garage 4'2L T5, T5HP, or T8 replacing 101W-175W	
Small Business Direct Install	All	Lighting	Parking Garage 4'1L T5, T5HP, or T8 replacing ≤100W HID	
Small Business Direct Install	All	Lighting	Parking Garage 4'1L T5, T5HP, or T8 replacing ≤100W fixture	
Small Business Direct Install	All	Lighting	Exterior LED replacing >400W HID	
		0 - 0	Exterior LED replacing > 400W Fixture or Mogul Screw-Base	
Small Business Direct Install	All	Lighting	Lamp	
Small Business Direct Install	All	Lighting	Exterior LED replacing 251-400W HID	
			Exterior LED replacing 251W-400W Fixture or Mogul	
Small Business Direct Install	All	Lighting	Screw-Base Lamp	
Small Business Direct Install	All	Lighting	Exterior LED replacing 175-250W HID	
			Exterior LED replacing 175W-250W Fixture or Mogul	
Small Business Direct Install	All	Lighting	Screw-Base Lamp	
Small Business Direct Install	All	Lighting	Exterior LED replacing <175W HID	
			Exterior LED replacing < 175W Fixture or Mogul Screw-Base	
Small Business Direct Install	All	Lighting	Lamp	
Small Business Direct Install	All	Lighting	Parking Garage LED replacing >175W HID	
			Parking Garage LED replacing > 175W Fixture or Mogul	
Small Business Direct Install	All	Lighting	Screw-Base Lamp	
Small Business Direct Install	All	Lighting	Parking Garage LED replacing 101W-175W HID	
			Parking Garage LED replacing 101W-175W Fixture or Mogul	
Small Business Direct Install	All	Lighting	Screw-Base Lamp	
Small Business Direct Install	All	Lighting	Parking Garage LED replacing ≤ 100W HID	
		0 - 0	Parking Garage LED replacing ≤ 100W Fixture or Mogul	
Small Business Direct Install	All	Lighting	Screw-Base Lamp	
			LED linear replacement lawn replacing a 4 ¹ TO T12 or TE lawn	
Small Business Direct Install	All	Lighting	LED linear replacement lamp replacing a 4' T8, T12, or T5 lamp	
Small Business Direct Install	All	Lighting	(Eligible for lighting optimization if applicable to project)	
Small Business Direct Install	All	Lighting	LED Linear Lamp Replacing 4ft T8, T12, or T5 Lamp	
Small Business Direct Install	All	Lighting	LED linear replacement lamp replacing a 2-ft T8, T12 or T5 lamp	
Small Business Direct Install Small Business Direct Install	All	Lighting Lighting	LED Linear Lamp Replacing 2ft T8, T12 or T5 lamp	
Small Business Direct Install	All	Lighting	LED 1X4 Retrofit Kit replacing T8, T12 or T5/T5HO	
Small Business Direct Install	All	Lighting	LED 1X4 Retrofit Kit replacing T8, T12 or T5/T5HO fixture	
Small Business Direct Install	All		LED 2X4 Retrofit Kit replacing T8, T12 or T5/T5HO	
Small Business Direct Install	All	Lighting	LED 2X4 Retrofit Kit replacing 18, 112 of 15/15HO LED 2X4 Retrofit Kit replacing 78, T12 or T5/T5HO fixture	
Small Business Direct Install	All	Lighting Lighting	LED 2X2 Retrofit Kit replacing T8, T12 or T5/T5HO	
Small Business Direct Install	All	Lighting	LED 2X2 Retrofit Kit replacing 18, 112 of 15/15HO LED 2X2 Retrofit Kit replacing 18, T12 or T5/T5HO fixture	
Jinan Dusiness Direct install	All	LIGHTHING		
Cmall Business Direct In the	All	Lighting	LED 1X4 Troffer or Linear Ambient replacing T8, T12 or	
Small Business Direct Install	All	Lighting	T5/T5H0	
Constit Business Birry (1997)	A.II	I talest to	LED 1X4 Troffer or Linear Ambient replacing T8, T12 or	
Small Business Direct Install	All	Lighting	T5/T5HO fixture	
Could be at a construction of the		12.102	LED 2X4 Troffer or Linear Ambient replacing T8, T12 or	
Small Business Direct Install	All	Lighting	T5/T5HO	

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 Early 2016
 to
 36 months following

 Search using Drop-down Filters in Headers
 Column Label:
 H
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using Drop-down Filters in Headers
Count: 162
Count: 162
Column Equation: See column R = H / L

Measure Description
Gross Measure

Count:	162			<u> </u>	olumn Equatioi	n:		see column R	= H / L		
			Measure Description						Gross Measur		
Program	Segment	End Use	Measure Name	Primary Key	Notes	Unit Definition	Incremental Measure Cost (\$/Unit)	Electric Energy Savings (Annual kWh/unit)	Nameplate Demand Savings (kW/unit)	Peak Coincidence Factor	
			LED 2X4 Troffer or Linear Ambient replacing T8, T12 or								
Small Business Direct Install	All	Lighting	T5/T5HO fixture	0207.1		per fixture	\$170.00	257.8703	0.078	75%	
			LED 2X2 Troffer or Linear Ambient replacing T8, T12 or								
Small Business Direct Install	All	Lighting	T5/T5HO	0208		per fixture	\$155.00	204.7266	0.062	75%	
			LED 2X2 Troffer or Linear Ambient replacing T8, T12 or								
Small Business Direct Install	All	Lighting	T5/T5HO fixture	0208.1		per fixture	\$155.00	204.7266	0.062	75%	
Small Business Direct Install	All	Lighting	LED Refrigerated Case Lights (4, 5, and 6-foot)	0209		per fixture	\$230.00	594.9354	0.096	92%	
			LED Refrigerated Case Lights w/Doors 4ft, 5ft, or 6ft replacing								
Small Business Direct Install	All	Lighting	Fluorsecent Refrigerated Case Lights w/Doors 4ft, 5ft, or 6ft	0209.1		per fixture	\$230.00	594.9354	0.096	92%	
Small Business Direct Install	All	Lighting	LED Freezer Case Lights (4, 5, and 6-foot)	0210		per fixture	\$230.00	641.3488	0.103	92%	
			LED Freezer Case Lights w/Doors 4ft, 5ft, or 6ft replacing					_			
Small Business Direct Install	All	Lighting	Fluorsecent Freezer Case Lights w/Doors 4ft, 5ft, or 6ft	0210.1		per fixture	\$230.00	641.3488	0.103	92%	
Small Business Direct Install	All	Lighting	LED Downlight or Retrofit Kit ≤ 13W	0211		per fixture	\$35.00	195.0768	0.060	70%	
Small Business Direct Install	All	Lighting	LED Downlight or Retrofit Kit replacing 45-60W Fixture	0211.1		per fixture	\$35.00	195.0768	0.060	70%	
Small Business Direct Install	All	Lighting	LED Downlight or Retrofit Kit 14 to 21W	0212		per fixture	\$68.00	321.8767	0.100	70%	
Small Business Direct Install	All	Lighting	LED Downlight or Retrofit Kit replacing 61-100W Fixture	0212.1		per fixture	\$68.00	321.8767	0.100	70%	
Small Business Direct Install	All	Lighting	LED Downlight or Retrofit Kit ≥ 22W	0213		per fixture	\$120.00	512.0766	0.159	70%	
Small Business Direct Install	All	Lighting	LED Downlight or Retrofit Kit replacing 101-155W Fixture	0213.1		per fixture	\$120.00	512.0766	0.159	70%	
Small Business Direct Install	All	Lighting	LED Low Bay 30-70W	0214		per fixture	\$305.00	806.6286	0.176	83%	
Small Business Direct Install	All	Lighting	LED Low Bay Fixture replacing 150W-300W fixture	0214.1		per fixture	\$305.00	806.6286	0.176	83%	
Small Business Direct Install	All	Lighting	LED Low/High Bay 71-110W	0215		per fixture	\$330.00	1,096.0297	0.239	83%	
Small Business Direct Install	All	Lighting	LED Low/High Bay Fixture replacing 301W-450W fixture	0215.1		per fixture	\$330.00	1,096.0297	0.239	83%	
Small Business Direct Install	All	Lighting	LED High Bay 111-175W	0216		per fixture	\$430.00	1,711.7767	0.373	83%	
Small Business Direct Install	All	Lighting	LED High Bay Fixture replacing 451W - 750W fixture	0216.1		per fixture	\$430.00	1,711.7767	0.373	83%	
Small Business Direct Install	All	Lighting	LED High Bay 176-350W	0217		per fixture	\$725.00	4,482.6382	0.976	83%	
Small Business Direct Install	All	Lighting	LED High Bay fixture replacing > 750W fixture	0217.1		per fixture	\$725.00	4,482.6382	0.976	83%	
Small Business Direct Install	All	Lighting	28W - 4 ft fluorescent T8 lamp	0218		per lamp	\$1.00	17.9222	0.004	72%	
Small Business Direct Install	All	Lighting	25W - 4 ft fluorescent T8 lamp	0219		per lamp	\$2.50	35.8443	0.009	72%	
Business Standard	All	Lighting	LED Low Bay 30-70W	0220		per fixture	\$305.00	806.6286	0.176	83%	
Business Standard	All	Lighting	LED Low Bay Fixture replacing 150W-300W fixture	0220.1		per fixture	\$305.00	806.6286	0.176	83%	
Business Standard	All	Lighting	LED Low/High Bay 71-110W	0221		per fixture	\$330.00	1,096.0297	0.239	83%	
Business Standard	All	Lighting	LED Low/High Bay Fixture replacing 301W-450W fixture	0221.1		per fixture	\$330.00	1,096.0297	0.239	83%	
Business Standard	All	Lighting	LED High Bay 111-175W	0222		per fixture	\$430.00	1,711.7767	0.373	83%	
Business Standard	All	Lighting	LED High Bay Fixture replacing 451W - 750W fixture	0222.1		per fixture	\$430.00	1,711.7767	0.373	83%	
Business Standard	All	Lighting	LED High Bay 176-350W	0223		per fixture	\$725.00	4,482.6382	0.976	83%	
Business Standard	All	Lighting	LED High Bay fixture replacing > 750W fixture	0223.1		per fixture	\$725.00	4,482.6382	0.976	83%	
Business Standard	All	Lighting	28W - 4 ft fluorescent T8 lamp	0224		per lamp	\$1.00	17.9222	0.004	72%	
Business Standard	All	Lighting	28W 4ft T8 Lamp Replacing 32W 4ft T8 Lamp	0224.1		per lamp	\$1.00	17.9222	0.004	72%	
Business Standard	All	Lighting	25W - 4 ft fluorescent T8 lamp	0225		per lamp	\$2.50	35.8443	0.009	72%	
Business Standard	All	Lighting	25W 4ft T8 Lamp Replacing 32W 4ft T8 Lamp	0225.1		per lamp	\$2.50	35.8443	0.009	72%	
		1 5	LED low bay mogul screw-base lamp/retrofit kit replacing			'					
Business Standard	All	Lighting	150W - 300W fixture	0226		per fixture	\$100.00	806.6286	0.176	83%	
	1		LED low/high bay mogul screw-base lamp/retrofit kit replacing				1 .				
Business Standard	All	Lighting	301W - 450W fixture	0227		per fixture	\$150.00	1,096.0297	0.239	83%	
			LED high bay mogul screw-base lamp/retrofit kit replacing				1				
Business Standard	All	Lighting	451W - 750W fixture	0228		per fixture	\$200.00	1,711.7767	0.373	83%	
			LED high bay mogul screw-base lamp/retrofit kit replacing >				1				
Business Standard	All	Lighting	750W fixture	0229		per fixture	\$350.00	4,482.6382	0.976	83%	

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Program	Segment	End Use	Measure Name	Coincident Peak Demand Savings (kW/unit)	Annual Operating Hours	Measure Life (Years)	Measure Definition	Measure Efficiency Value
Small Business Direct Install	All	Lighting	LED 2X4 Troffer or Linear Ambient replacing T8, T12 or T5/T5HO fixture	0.0586	4,128	12	LED 2X2 Troffer or Linear Ambient Fixt	46
Small Business Direct Install	All	Lighting	LED 2X2 Troffer or Linear Ambient replacing T8, T12 or T5/T5HO	0.0465	4,128	12	LED 2X4 Troffer or Linear Ambient Fixt	36
Small Business Direct Install	All	Lighting	LED 2X2 Troffer or Linear Ambient replacing T8, T12 or T5/T5HO fixture	0.0465	4,128	12	LED 2X4 Troffer or Linear Ambient Fixt	36
Small Business Direct Install	All	Lighting	LED Refrigerated Case Lights (4, 5, and 6-foot)	0.0882	6,205	8	LED Refrigerated (Medium Temp) Case	34
			LED Refrigerated Case Lights w/Doors 4ft, 5ft, or 6ft replacing					
Small Business Direct Install	All	Lighting	Fluorsecent Refrigerated Case Lights w/Doors 4ft, 5ft, or 6ft LED Freezer Case Lights (4, 5, and 6-foot)	0.0882 0.0951	6,205 6,205	8	LED Refrigerated (Medium Temp) Case	34 34
Small Business Direct Install	All	Lighting	LED Freezer Case Lights w/Doors 4ft, 5ft, or 6ft replacing	0.0951	6,205	8	LED Freezer (Low Temp) Case Light Fixt	34
Small Business Direct Install	All	Lighting	Fluorsecent Freezer Case Lights w/Doors 4ft, 5ft, or 6ft	0.0951	6,205	8	LED Freezer (Low Temp) Case Light Fixt	34
Small Business Direct Install	All	Lighting	LED Downlight or Retrofit Kit ≤ 13W	0.0423	3,933	13	LED Downlight or Retrofit Kit ≤ 13W	11
Small Business Direct Install	All	Lighting	LED Downlight or Retrofit Kit replacing 45-60W Fixture	0.0423	3,933	13	LED Downlight or Retrofit Kit ≤ 13W	11
Small Business Direct Install	All	Lighting	LED Downlight or Retrofit Kit 14 to 21W	0.0698	3,933	13	LED Downlight or Retrofit Kit 14 to 21V	18
Small Business Direct Install	All	Lighting	LED Downlight or Retrofit Kit replacing 61-100W Fixture	0.0698	3,933	13	LED Downlight or Retrofit Kit 14 to 21V	18
Small Business Direct Install	All	Lighting	LED Downlight or Retrofit Kit ≥ 22W	0.1110	3,933	13	LED Downlight or Retrofit Kit ≥ 22W	28
Small Business Direct Install	All	Lighting	LED Downlight or Retrofit Kit replacing 101-155W Fixture	0.1110	3,933	13	LED Downlight or Retrofit Kit ≥ 22W	28
Small Business Direct Install	All	Lighting	LED Low Bay 30-70W	0.1457	4,367	12	LED Low Bay (watts)	70
Small Business Direct Install	All	Lighting	LED Low Bay Fixture replacing 150W-300W fixture	0.1457	4,367	12	LED Low Bay (watts)	70
Small Business Direct Install	All	Lighting	LED Low/High Bay 71-110W	0.1980	4,367	12	LED High/Low Bay (watts)	110
Small Business Direct Install	All	Lighting	LED Low/High Bay Fixture replacing 301W-450W fixture	0.1980	4,367	12	LED High/Low Bay (watts)	110
Small Business Direct Install	All	Lighting	LED High Bay 111-175W	0.3092	4,367	12	LED High Bay (watts)	175
Small Business Direct Install	All	Lighting	LED High Bay Fixture replacing 451W - 750W fixture	0.3092	4,367	12	LED High Bay (watts)	175
Small Business Direct Install	All	Lighting	LED High Bay 176-350W	0.8097	4,367	12	LED High Bay (watts)	350
Small Business Direct Install	All	Lighting	LED High Bay fixture replacing > 750W fixture	0.8097	4,367	12	LED High Bay (watts)	350
Small Business Direct Install	All	Lighting	28W - 4 ft fluorescent T8 lamp	0.0031	3,911	7	28W - 4 ft fluorescent T8 lamp	25
Small Business Direct Install	All	Lighting	25W - 4 ft fluorescent T8 lamp	0.0063	3,911	7	25W - 4 ft fluorescent T8 lamp	22
Business Standard	All	Lighting	LED Low Bay 30-70W	0.1457	4,367	12	LED Low Bay (watts)	70
Business Standard	All	Lighting	LED Low Bay Fixture replacing 150W-300W fixture	0.1457	4,367	12	LED Low Bay (watts)	70
Business Standard	All	Lighting	LED Low/High Bay 71-110W	0.1980	4,367	12	LED High/Low Bay (watts)	110
Business Standard	All	Lighting	LED Low/High Bay Fixture replacing 301W-450W fixture	0.1980	4,367	12	LED High/Low Bay (watts)	110
Business Standard	All	Lighting	LED High Bay 111-175W	0.3092	4,367	12	LED High Bay (watts)	175
Business Standard	All	Lighting	LED High Bay Fixture replacing 451W - 750W fixture	0.3092	4,367	12	LED High Bay (watts)	175
Business Standard	All	Lighting	LED High Bay 176-350W	0.8097	4,367	12	LED High Bay (watts)	350
Business Standard	All	Lighting	LED High Bay fixture replacing > 750W fixture	0.8097	4,367	12	LED High Bay (watts)	350
Business Standard	All	Lighting	28W - 4 ft fluorescent T8 lamp	0.0031	3,911	7	28W - 4 ft fluorescent T8 lamp	25
Business Standard	All	Lighting	28W 4ft T8 Lamp Replacing 32W 4ft T8 Lamp	0.0031	3,911	7	28W - 4 ft fluorescent T8 lamp	25
Business Standard	All	Lighting	25W - 4 ft fluorescent T8 lamp	0.0063	3,911	7	25W - 4 ft fluorescent T8 lamp	22
Business Standard	All	Lighting	25W 4ft T8 Lamp Replacing 32W 4ft T8 Lamp	0.0063	3,911	7	25W - 4 ft fluorescent T8 lamp	22
Business Standard	All	Lighting	LED low bay mogul screw-base lamp/retrofit kit replacing 150W - 300W fixture	0.1457	4,367	12	LED Low Bay (watts)	70
Business Standard	All	Lighting	LED low/high bay mogul screw-base lamp/retrofit kit replacing 301W - 450W fixture	0.1980	4,367	12	LED High/Low Bay (watts)	110
Business Standard	All	Lighting	LED high bay mogul screw-base lamp/retrofit kit replacing 451W - 750W fixture	0.3092	4,367	12	LED High Bay (watts)	175
Business Standard	All	Lighting	LED high bay mogul screw-base lamp/retrofit kit replacing > 750W fixture	0.8097	4,367	12	LED High Bay (watts)	350

ndicates default plan values that can be adjusted for unique installations.

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unique installations.

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			Measure Description	Pescription Pescription		Algorithms
Program	Segment	End Use	Measure Name	Baseline Definition	Baseline Efficiency Value	Electric Energy Savings Algorithm
Small Business Direct Install	All	Lighting	LED 2X4 Troffer or Linear Ambient replacing T8, T12 or	2V4 Troffer or Linear Ambient TO T12 or	0.0	-DOUND//D244 D244*/AC244*N4244/1000 4\
Small Business Direct Install	All	Lighting	T5/T5HO fixture LED 2X2 Troffer or Linear Ambient replacing T8, T12 or	2X4 Troffer or Linear Ambient T8, T12 or	98	=ROUND((R244-P244)*(AC244)*M244/1000,4)
Small Business Direct Install	All	Lighting	T5/T5HO	2X2 Troffer or Linear Ambient T8, T12 or	77	=ROUND((R245-P245)*(AC245)*M245/1000,4)
			LED 2X2 Troffer or Linear Ambient replacing T8, T12 or			
Small Business Direct Install	All	Lighting	T5/T5HO fixture	2X2 Troffer or Linear Ambient T8, T12 or	77	=ROUND((R246-P246)*(AC246)*M246/1000,4)
mall Business Direct Install	All	Lighting	LED Refrigerated Case Lights (4, 5, and 6-foot)	Linear Fluorescent T12 and T8 Fixtures	102	=ROUND((R247-P247)*(AC247)*M247/1000,4)
Small Business Direct Install	All	Lighting	LED Refrigerated Case Lights w/Doors 4ft, 5ft, or 6ft replacing Fluorsecent Refrigerated Case Lights w/Doors 4ft, 5ft, or 6ft	Linear Fluorescent T12 and T8 Fixtures	102	=ROUND((R248-P248)*(AC248)*M248/1000,4)
mall Business Direct Install	All	Lighting	LED Freezer Case Lights (4, 5, and 6-foot)	Linear Fluorescent T12 and T8 Fixtures	102	=ROUND((R249-P249)*(AC249)*M249/1000,4)
mall Business Direct Install	All	Lighting	LED Freezer Case Lights w/Doors 4ft, 5ft, or 6ft replacing Fluorsecent Freezer Case Lights w/Doors 4ft, 5ft, or 6ft	Linear Fluorescent T12 and T8 Fixtures	102	=ROUND((R250-P250)*(AC250)*M250/1000,4)
mall Business Direct Install	All	Lighting	LED Downlight or Retrofit Kit ≤ 13W	Incandescent and Halogen Downlights < 3	51	=ROUND((R251-P251)*(AC251)*M251/1000,4)
mall Business Direct Install	All	Lighting	LED Downlight or Retrofit Kit replacing 45-60W Fixture	Incandescent and Halogen Downlights < 2	51	=ROUND((R252-P252)*(AC252)*M252/1000,4)
mall Business Direct Install	All	Lighting	LED Downlight or Retrofit Kit 14 to 21W	Incardescent and Halogen Downlights 10	84	=ROUND((R253-P253)*(AC253)*M253/1000,4)
mall Business Direct Install	All	Lighting	LED Downlight or Retrofit Kit replacing 61-100W Fixture	Incandescent and Halogen Downlights 10	84	=ROUND((R254-P254)*(AC254)*M254/1000,4)
mall Business Direct Install	All	Lighting	LED Downlight or Retrofit Kit ≥ 22W	Incandescent, HID and Halogen Downlight	133	=ROUND((R255-P255)*(AC255)*M255/1000,4)
mall Business Direct Install	All	Lighting	LED Downlight or Retrofit Kit 222W	Incandescent, HID and Halogen Downligh	133	=ROUND((R256-P256)*(AC256)*M256/1000,4)
nall Business Direct Install	All	Lighting	LED Low Bay 30-70W	Pulse Start Metal Halide (watts)	201	=ROUND((R257-P257)*(AC257)*M257/1000,4)
nall Business Direct Install	All	Lighting	LED Low Bay 50-70W LED Low Bay Fixture replacing 150W-300W fixture	Pulse Start Metal Halide (watts)	201	=ROUND((R257-P257) (AC257) M257/1000,4)
	All				288	=ROUND((R259-P259)*(AC259)*M259/1000,4)
mall Business Direct Install mall Business Direct Install	All	Lighting	LED Low/High Bay 71-110W LED Low/High Bay Fixture replacing 301W-450W fixture	Pulse Start Metal Halide (watts)	288	=ROUND((R260-P260)*(AC260)*M260/1000,4)
	All	Lighting		Pulse Start Metal Halide (watts)	453	=ROUND((R260-P260)*(AC260)*M260/1000,4) =ROUND((R261-P261)*(AC261)*M261/1000,4)
mall Business Direct Install		Lighting	LED High Bay 111-175W	Pulse Start Metal Halide (watts)		
mall Business Direct Install	All	Lighting	LED High Bay Fixture replacing 451W - 750W fixture	Pulse Start Metal Halide (watts)	453	=ROUND((R262-P262)*(AC262)*M262/1000,4)
mall Business Direct Install		Lighting	LED High Bay 176-350W	Pulse Start Metal Halide (watts)	1078	=ROUND((R263-P263)*(AC263)*M263/1000,4)
mall Business Direct Install	All	Lighting	LED High Bay fixture replacing > 750W fixture	Pulse Start Metal Halide (watts)	1078	=ROUND((R264-P264)*(AC264)*M264/1000,4)
mall Business Direct Install	All	Lighting	28W - 4 ft fluorescent T8 lamp	32W 4 ft fluorescent T8 lamp	28	=ROUND((R265-P265)*(AC265)*M265/1000,4)
mall Business Direct Install	All	Lighting	25W - 4 ft fluorescent T8 lamp	32W 4 ft fluorescent T8 lamp	28	=ROUND((R266-P266)*(AC266)*M266/1000,4)
usiness Standard	All	Lighting	LED Low Bay 30-70W	Pulse Start Metal Halide (watts)	201	=ROUND((R267-P267)*(AC267)*M267/1000,4)
usiness Standard	All	Lighting	LED Low Bay Fixture replacing 150W-300W fixture	Pulse Start Metal Halide (watts)	201	=ROUND((R268-P268)*(AC268)*M268/1000,4)
usiness Standard	All	Lighting	LED Low/High Bay 71-110W	Pulse Start Metal Halide (watts)	288	=ROUND((R269-P269)*(AC269)*M269/1000,4)
usiness Standard	All	Lighting	LED Low/High Bay Fixture replacing 301W-450W fixture	Pulse Start Metal Halide (watts)	288	=ROUND((R270-P270)*(AC270)*M270/1000,4)
usiness Standard	All	Lighting	LED High Bay 111-175W	Pulse Start Metal Halide (watts)	453	=ROUND((R271-P271)*(AC271)*M271/1000,4)
usiness Standard	All	Lighting	LED High Bay Fixture replacing 451W - 750W fixture	Pulse Start Metal Halide (watts)	453	=ROUND((R272-P272)*(AC272)*M272/1000,4)
usiness Standard	All	Lighting	LED High Bay 176-350W	Pulse Start Metal Halide (watts)	1078	=ROUND((R273-P273)*(AC273)*M273/1000,4)
usiness Standard	All	Lighting	LED High Bay fixture replacing > 750W fixture	Pulse Start Metal Halide (watts)	1078	=ROUND((R274-P274)*(AC274)*M274/1000,4)
usiness Standard	All	Lighting	28W - 4 ft fluorescent T8 lamp	32W 4 ft fluorescent T8 lamp	28	=ROUND((R275-P275)*(AC275)*M275/1000,4)
usiness Standard	All	Lighting	28W 4ft T8 Lamp Replacing 32W 4ft T8 Lamp	32W 4 ft fluorescent T8 lamp	28	=ROUND((R276-P276)*(AC276)*M276/1000,4)
usiness Standard	All	Lighting	25W - 4 ft fluorescent T8 lamp	32W 4 ft fluorescent T8 lamp	28	=ROUND((R277-P277)*(AC277)*M277/1000,4)
usiness Standard	All	Lighting	25W 4ft T8 Lamp Replacing 32W 4ft T8 Lamp	32W 4 ft fluorescent T8 lamp	28	=ROUND((R278-P278)*(AC278)*M278/1000,4)
usiness Standard	All	Lighting	LED low bay mogul screw-base lamp/retrofit kit replacing 150W - 300W fixture	Pulse Start Metal Halide (watts)	201	=ROUND((R279-P279)*(AC279)*M279/1000,4)
susiness Standard	All	Lighting	LED low/high bay mogul screw-base lamp/retrofit kit replacing 301W - 450W fixture	Pulse Start Metal Halide (watts)	288	=ROUND((R280-P280)*(AC280)*M280/1000,4)
Business Standard	All	Lighting	LED high bay mogul screw-base lamp/retrofit kit replacing 451W - 750W fixture	Pulse Start Metal Halide (watts)	453	=ROUND((R281-P281)*(AC281)*M281/1000,4)
Business Standard	All	Lighting	LED high bay mogul screw-base lamp/retrofit kit replacing > 750W fixture	Pulse Start Metal Halide (watts)	1078	=ROUND((R282-P282)*(AC282)*M282/1000,4)

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			Measure Description			
Program	Segment	End Use	Measure Name	Incentive Definition	Net to Gross Ratio (NTG)	Net Electric Energy Savings (Annual kWh/unit)
			LED 2X4 Troffer or Linear Ambient replacing T8, T12 or			
Small Business Direct Install	All	Lighting	T5/T5HO fixture	per unit	100%	257.87
			LED 2X2 Troffer or Linear Ambient replacing T8, T12 or			
Small Business Direct Install	All	Lighting	T5/T5HO	Targeted a bit above 25% of IMC between \$0.16-\$0	100%	204.73
			LED 2X2 Troffer or Linear Ambient replacing T8, T12 or			
Small Business Direct Install	All	Lighting	T5/T5HO fixture	per unit	100%	204.73
Small Business Direct Install	All	Lighting	LED Refrigerated Case Lights (4, 5, and 6-foot)	Min of 50% Incremental Cost or \$0.10/kWh with so	100%	594.94
Cmall Dusiness Direct Install	All	Lighting	LED Refrigerated Case Lights w/Doors 4ft, 5ft, or 6ft replacing Fluorsecent Refrigerated Case Lights w/Doors 4ft, 5ft, or 6ft	nor unit	100%	594.94
Small Business Direct Install Small Business Direct Install	All	Lighting	LED Freezer Case Lights (4, 5, and 6-foot)	per unit	100%	641.35
Siliali Busilless Direct ilistali	All	Lighting	LED Freezer Case Lights w/Doors 4ft, 5ft, or 6ft replacing	Min of 50% Incremental Cost or \$0.10/kWh with so	100%	041.53
Small Business Direct Install	All	Lighting	Fluorsecent Freezer Case Lights w/Doors 4ft, 5ft, or 6ft	nor unit	100%	641.3
Small Business Direct Install Small Business Direct Install	+	Lighting	LED Downlight or Retrofit Kit ≤ 13W	per unit	100%	195.08
Small Business Direct Install	All	Lighting	· ·	Min of 50% Incremental Cost or \$0.10/kWh with so	100%	195.08
Small Business Direct Install	All	Lighting	LED Downlight or Retrofit Kit replacing 45-60W Fixture LED Downlight or Retrofit Kit 14 to 21W	per unit Min of 50% Incremental Cost or \$0.10/kWh with so	100%	321.88
Small Business Direct Install	All	Lighting	LED Downlight or Retrofit Kit 14 to 21W LED Downlight or Retrofit Kit replacing 61-100W Fixture		100%	321.88
Small Business Direct Install	All	Lighting Lighting	LED Downlight or Retrofit Kit replacing 61-100W Fixture LED Downlight or Retrofit Kit ≥ 22W	per unit Min of 50% Incremental Cost or \$0.10/kWh with so	100%	512.08
	All		LED Downlight or Retrofit Kit 222W		100%	512.08
Small Business Direct Install Small Business Direct Install	All	Lighting		per unit	100%	806.63
Small Business Direct Install	All	Lighting	LED Low Bay 30-70W LED Low Bay Fixture replacing 150W-300W fixture	'	100%	806.63
	All	Lighting	,	per unit	100%	1,096.03
Small Business Direct Install	All	Lighting	LED Low/High Bay 71-110W			
Small Business Direct Install		Lighting	LED Low/High Bay Fixture replacing 301W-450W fixture	per unit	100%	1,096.03
Small Business Direct Install	All	Lighting	LED High Bay 111-175W	per unit	100%	1,711.78
Small Business Direct Install	All	Lighting	LED High Bay Fixture replacing 451W - 750W fixture	per unit	100%	1,711.78
Small Business Direct Install	All	Lighting	LED High Bay 176-350W	per unit	100% 100%	4,482.64
Small Business Direct Install	All	Lighting	LED High Bay fixture replacing > 750W fixture	per unit		4,482.64
Small Business Direct Install	All	Lighting	28W - 4 ft fluorescent T8 lamp	per unit	100%	17.92
Small Business Direct Install	All	Lighting	25W - 4 ft fluorescent T8 lamp	per unit	100% 100%	35.8 ⁴ 806.63
Business Standard	All	Lighting	LED Low Bay 30-70W	per unit		
Business Standard	All	Lighting	LED Low Bay Fixture replacing 150W-300W fixture	per unit	100%	806.63
Business Standard	1 111	Lighting	LED Low/High Bay 71-110W	per unit	100%	1,096.03
Business Standard	All	Lighting	LED Low/High Bay Fixture replacing 301W-450W fixture LED High Bay 111-175W	per unit	100% 100%	1,096.03 1,711.78
Business Standard	All	Lighting Lighting	LED High Bay Fixture replacing 451W - 750W fixture	per unit per unit	100%	1,711.78
Business Standard Business Standard	All	Lighting	LED High Bay 176-350W	per unit per unit	100%	4,482.64
Business Standard Business Standard	All		LED High Bay fixture replacing > 750W fixture	per unit	100%	4,482.64
Business Standard	All	Lighting	28W - 4 ft fluorescent T8 lamp		100%	4,482.5
Business Standard Business Standard	All	Lighting	28W 4ft T8 Lamp Replacing 32W 4ft T8 Lamp	per unit	100%	17.92
Business Standard Business Standard	All	Lighting Lighting	25W - 4 ft fluorescent T8 lamp	per unit per unit	100%	35.8
Business Standard	All	Lighting	25W 4ft T8 Lamp Replacing 32W 4ft T8 Lamp	per unit	100%	35.84
Duanicaa Jianualu	All	LIGITUIIE	LED low bay mogul screw-base lamp/retrofit kit replacing	per unit	100%	33.84
Business Standard	All	Lighting	150W - 300W fixture	per unit	100%	806.63
			LED low/high bay mogul screw-base lamp/retrofit kit replacing			
Business Standard	All	Lighting	301W - 450W fixture	per unit	100%	1,096.03
Rusiness Standard	All	Lighting	LED high bay mogul screw-base lamp/retrofit kit replacing 451W - 750W fixture	per unit	100%	1,711.78
Business Standard	All	Lighting	LED high bay mogul screw-base lamp/retrofit kit replacing >	per unit	100%	1,/11./0
Business Standard	All	Lighting	750W fixture	per unit	100%	4,482.64
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			Measure Description						Sup
Program	Segment	End Use	Measure Name	Data Source	Date of Data Revision	Effective Start Date	Effective End Date	Cooling Degree Days (CDD)	Heating Degree Days (HDD)
Small Business Direct Install	All	Lighting	LED 2X4 Troffer or Linear Ambient replacing T8, T12 or T5/T5HO fixture	Weighted Average using IN TRM	2/1/2017	4/1/2017			
Small Business Direct Install	All	Lighting	LED 2X2 Troffer or Linear Ambient replacing T8, T12 or T5/T5HO	Weighted Average using IN TRM	1/0/1900	4/1/2016	3/31/2017		
Small Business Direct Install	All	Lighting	LED 2X2 Troffer or Linear Ambient replacing T8, T12 or T5/T5HO fixture	Weighted Average using IN TRM	2/1/2017	4/1/2017			
Small Business Direct Install	All	Lighting	LED Refrigerated Case Lights (4, 5, and 6-foot)	IL TRM	1/0/1900	4/1/2017	3/31/2017		
			LED Refrigerated Case Lights w/Doors 4ft, 5ft, or 6ft replacing				3/31/2017		
Small Business Direct Install	All	Lighting	Fluorsecent Refrigerated Case Lights w/Doors 4ft, 5ft, or 6ft	IL TRM	2/1/2017	4/1/2017			
Small Business Direct Install	All	Lighting	LED Freezer Case Lights (4, 5, and 6-foot)	IL TRM	1/0/1900	4/1/2016	3/31/2017		
Small Business Direct Install	All	Lighting	LED Freezer Case Lights w/Doors 4ft, 5ft, or 6ft replacing Fluorsecent Freezer Case Lights w/Doors 4ft, 5ft, or 6ft	IL TRM	2/1/2017	4/1/2017			
Small Business Direct Install	All	Lighting	LED Downlight or Retrofit Kit ≤ 13W	Weighted Average using IN TRM	1/0/1900	4/1/2016	3/31/2017		
Small Business Direct Install	All	Lighting	LED Downlight or Retrofit Kit replacing 45-60W Fixture	Weighted Average using IN TRM	2/1/2017	4/1/2017	3/31/2017		
Small Business Direct Install	All	Lighting	LED Downlight or Retrofit Kit 14 to 21W	Weighted Average using IN TRM	1/0/1900	4/1/2016	3/31/2017		
Small Business Direct Install	All	Lighting	LED Downlight or Retrofit Kit replacing 61-100W Fixture	Weighted Average using IN TRM	2/1/2017	4/1/2017	3/31/2017		
Small Business Direct Install	All	Lighting	LED Downlight or Retrofit Kit ≥ 22W	Weighted Average using IN TRM	1/0/1900	4/1/2016	3/31/2017		
Small Business Direct Install	All	Lighting	LED Downlight or Retrofit Kit replacing 101-155W Fixture	Weighted Average using IN TRM	2/1/2017	4/1/2017	3/31/2017		
Small Business Direct Install	All	Lighting	LED Low Bay 30-70W	AEG KCP&L Program Plan 2016-2018	2/11/2016	4/1/2016	3/31/2017		
Small Business Direct Install	All	Lighting	LED Low Bay Fixture replacing 150W-300W fixture	AEG KCP&L Program Plan 2016-2018	2/1/2017	4/1/2017	3/31/2017		
Small Business Direct Install	All	Lighting	LED Low/High Bay 71-110W	AEG KCP&L Program Plan 2016-2018	2/1/201/	4/1/2017	3/31/2017		
Small Business Direct Install	All	Lighting	LED Low/High Bay Fixture replacing 301W-450W fixture	AEG KCP&L Program Plan 2016-2018	2/1/2017	4/1/2017	3/31/2017		
Small Business Direct Install	All	Lighting	LED High Bay 111-175W	AEG KCP&L Program Plan 2016-2018	2/1/201/	4/1/2017	3/31/2017		
Small Business Direct Install	All	Lighting	LED High Bay Fixture replacing 451W - 750W fixture	AEG KCP&L Program Plan 2016-2018	2/1/2017	4/1/2017	3/31/2017		
Small Business Direct Install	All	Lighting	LED High Bay 176-350W	AEG KCP&L Program Plan 2016-2018	2/11/2017	4/1/2017	3/31/2017		
Small Business Direct Install	All	Lighting	LED High Bay 170-350W LED High Bay fixture replacing > 750W fixture	AEG KCP&L Program Plan 2016-2018	2/1/2017	4/1/2017	3/31/2017		
Small Business Direct Install	All	Lighting	28W - 4 ft fluorescent T8 lamp	AEG KCP&L Program Plan 2016-2018	2/1/2017	4/1/2017			
Small Business Direct Install	All	Lighting	25W - 4 ft fluorescent T8 lamp	AEG KCP&L Program Plan 2016-2018	2/11/2016	4/1/2016			
Business Standard	All	Lighting	LED Low Bay 30-70W	AEG KCP&L Program Plan 2016-2018	2/11/2016	4/1/2016	3/31/2017		
Business Standard	All	Lighting	LED Low Bay Sixture replacing 150W-300W fixture	AEG KCP&L Program Plan 2016-2018	2/11/2010	4/1/2010	3/31/2017		
Business Standard	All	Lighting	LED Low/High Bay 71-110W	AEG KCP&L Program Plan 2016-2018	2/1/201/	4/1/2017	3/31/2017		
Business Standard	All	Lighting	LED Low/High Bay Fixture replacing 301W-450W fixture	AEG KCP&L Program Plan 2016-2018	2/11/2010	4/1/2010	3/31/2017		
Business Standard	All	Lighting	LED High Bay 111-175W	AEG KCP&L Program Plan 2016-2018	2/11/2017	4/1/2017	3/31/2017		
Business Standard	All	Lighting	LED High Bay Fixture replacing 451W - 750W fixture	AEG KCP&L Program Plan 2016-2018	2/1/2017	4/1/2017	3/31/2017		
Business Standard	All	Lighting	LED High Bay 176-350W	AEG KCP&L Program Plan 2016-2018	2/11/2016	4/1/2017	3/31/2017		
Business Standard	All	Lighting	LED High Bay fixture replacing > 750W fixture	AEG KCP&L Program Plan 2016-2018	2/1/2017	4/1/2017	3/31/2017		
Business Standard	All	Lighting	28W - 4 ft fluorescent T8 lamp	AEG KCP&L Program Plan 2016-2018	2/11/2016	4/1/2016	3/31/2017		
Business Standard	All	Lighting	28W 4ft T8 Lamp Replacing 32W 4ft T8 Lamp	AEG KCP&L Program Plan 2016-2018	2/1/2017	4/1/2017	3/31/2017		
Business Standard	All	Lighting	25W - 4 ft fluorescent T8 lamp	AEG KCP&L Program Plan 2016-2018	2/11/2016	4/1/2016	3/31/2017		
Business Standard	All	Lighting	25W 4ft T8 Lamp Replacing 32W 4ft T8 Lamp	AEG KCP&L Program Plan 2016-2018	2/1/2017	4/1/2017	3/31/2017		
Business Standard	All	Lighting	LED low bay mogul screw-base lamp/retrofit kit replacing 150W - 300W fixture	AEG KCP&L Program Plan 2016-2018	2/1/2017	3/1/2017			
Business Standard	All	Lighting	LED low/high bay mogul screw-base lamp/retrofit kit replacing 301W - 450W fixture	AEG KCP&L Program Plan 2016-2018	2/1/2017	3/1/2017			
Business Standard	All	Lighting	LED high bay mogul screw-base lamp/retrofit kit replacing 451W - 750W fixture	AEG KCP&L Program Plan 2016-2018	2/1/2017	3/1/2017			
Business Standard	All	Lighting	LED high bay mogul screw-base lamp/retrofit kit replacing > 750W fixture	AEG KCP&L Program Plan 2016-2018	2/1/2017	3/1/2017			

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Count: 162 Measure Description porting Information **End Use** Quantity1 Quantity1 Description Quantity3 Program Segment **Measure Name** Quantity2 Quantity2 Description LED 2X4 Troffer or Linear Ambient replacing T8, T12 or Small Business Direct Install Lighting T5/T5HO fixture 1.20 Waste Heat Factor Energy 1.50 Waste Heat Factor Demand LED 2X2 Troffer or Linear Ambient replacing T8, T12 or imall Business Direct Install ighting. 1.20 Waste Heat Factor Energy 1.50 Waste Heat Factor Demand LED 2X2 Troffer or Linear Ambient replacing T8, T12 or Small Business Direct Install Lighting T5/T5HO fixture 1.20 Waste Heat Factor Energy 1.50 Waste Heat Factor Demand Lighting LED Refrigerated Case Lights (4, 5, and 6-foot) Small Business Direct Install 1.41 Waste Heat Factor_Energy 1.41 Waste Heat Factor_Demand LED Refrigerated Case Lights w/Doors 4ft, 5ft, or 6ft replacing Small Business Direct Install Lighting Fluorsecent Refrigerated Case Lights w/Doors 4ft, 5ft, or 6ft 1.41 Waste Heat Factor Energy 1.41 Waste Heat Factor Demand mall Business Direct Install Lighting LED Freezer Case Lights (4, 5, and 6-foot) 1.52 Waste Heat Factor Energy 1.52 Waste Heat Factor Demand LED Freezer Case Lights w/Doors 4ft, 5ft, or 6ft replacing Small Business Direct Install Lighting Fluorsecent Freezer Case Lights w/Doors 4ft, 5ft, or 6ft 1.52 Waste Heat Factor Energy 1.52 Waste Heat Factor Demand mall Business Direct Install ΑII Lighting LED Downlight or Retrofit Kit ≤ 13W 1.24 Waste Heat Factor Energy 1.51 Waste Heat Factor Demand 1.24 Waste Heat Factor_Energy All LED Downlight or Retrofit Kit replacing 45-60W Fixture 1.51 Waste Heat Factor Demand Small Business Direct Install Lighting 1.51 Waste Heat Factor_Demand nall Business Direct Install Lighting LED Downlight or Retrofit Kit 14 to 21W 1.24 Waste Heat Factor_Energy Small Business Direct Install All LED Downlight or Retrofit Kit replacing 61-100W Fixture 1.24 Waste Heat Factor Energy 1.51 Waste Heat Factor Demand Lighting mall Business Direct Install Lighting LED Downlight or Retrofit Kit ≥ 22W 1.24 Waste Heat Factor Energy 1.51 Waste Heat Factor Demand Small Business Direct Install Lighting LED Downlight or Retrofit Kit replacing 101-155W Fixture 1.24 Waste Heat Factor Energy 1.51 Waste Heat Factor Demand mall Business Direct Install ighting LED Low Bay 30-70W 1.41 Waste Heat Factor 1.34 Waste Heat Factor All LED Low Bay Fixture replacing 150W-300W fixture 1.41 Waste Heat Factor Small Business Direct Install Lighting 1.34 Waste Heat Factor mall Business Direct Install Lighting LED Low/High Bay 71-110W 1.41 Waste Heat Factor 1.34 Waste Heat Factor Small Business Direct Install ΑII Lighting LED Low/High Bay Fixture replacing 301W-450W fixture 1.41 Waste Heat Factor 1.34 Waste Heat Factor 1.41 Waste Heat Factor mall Business Direct Install ighting. LED High Bay 111-175W 1.34 Waste Heat Factor ΑII LED High Bay Fixture replacing 451W - 750W fixture Small Business Direct Install Lighting 1.41 Waste Heat Factor 1.34 Waste Heat Factor mall Business Direct Install Lighting LED High Bay 176-350W 1.41 Waste Heat Factor 1.34 Waste Heat Factor Small Business Direct Install ΑII Lighting LED High Bay fixture replacing > 750W fixture 1.41 Waste Heat Factor 1.34 Waste Heat Factor Small Business Direct Install ΑII Lighting 28W - 4 ft fluorescent T8 lamp 1.41 Waste Heat Factor 1.34 Waste Heat Factor Small Business Direct Install ΑII 25W - 4 ft fluorescent T8 lamp 1.41 Waste Heat Factor 1.34 Waste Heat Factor Lighting Susiness Standard Lighting LED Low Bay 30-70W 1.41 Waste Heat Factor **Waste Heat Factor** ΑII LED Low Bay Fixture replacing 150W-300W fixture 1.41 Waste Heat Factor **Business Standard** Lighting 1.34 Waste Heat Factor LED Low/High Bay 71-110W Susiness Standard Lighting 1.41 Waste Heat Factor 1.34 Waste Heat Factor ΑII LED Low/High Bay Fixture replacing 301W-450W fixture Business Standard Lighting 1.41 Waste Heat Factor 1.34 Waste Heat Factor LED High Bay 111-175W **Business Standard** ighting 1.41 Waste Heat Factor 1.34 Waste Heat Factor LED High Bay Fixture replacing 451W - 750W fixture **Business Standard** ΑII 1.41 Waste Heat Factor 1.34 Waste Heat Factor Lighting Lighting LED High Bay 176-350W Waste Heat Factor 1.34 Waste Heat Factor usiness Standard **Business Standard** ΑII Lighting LED High Bay fixture replacing > 750W fixture 1.41 Waste Heat Factor 1.34 Waste Heat Factor **Business Standard** Lighting 28W - 4 ft fluorescent T8 lamp 1.41 Waste Heat Factor 1.34 Waste Heat Factor ΑII 28W 4ft T8 Lamp Replacing 32W 4ft T8 Lamp 1.41 Waste Heat Factor 1.34 Waste Heat Factor **Business Standard** Lighting Business Standard Lighting 25W - 4 ft fluorescent T8 lamp 1.41 Waste Heat Factor 1.34 Waste Heat Factor All 25W 4ft T8 Lamp Replacing 32W 4ft T8 Lamp 1.41 Waste Heat Factor **Business Standard** Lighting 1.34 Waste Heat Factor LED low bay mogul screw-base lamp/retrofit kit replacing **Business Standard** ΑII 150W - 300W fixture 1.41 Waste Heat Factor Lighting 1.34 Waste Heat Factor LED low/high bay mogul screw-base lamp/retrofit kit replacing **Business Standard** All Lighting 301W - 450W fixture 1.41 Waste Heat Factor 1.34 Waste Heat Factor LED high bay mogul screw-base lamp/retrofit kit replacing **Business Standard** ΑII 451W - 750W fixture 1.41 Waste Heat Factor 1.34 Waste Heat Factor Lighting LED high bay mogul screw-base lamp/retrofit kit replacing > **Business Standard** Lighting 750W fixture 1.41 Waste Heat Factor 1.34 Waste Heat Factor

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			Measure Description	
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Program	Segment	End Use	Measure Name	Quantity3 Description
			LED 2X4 Troffer or Linear Ambient replacing T8, T12 or	
Small Business Direct Install	All	Lighting	T5/T5HO fixture	
Sindii Basiness Bireet iiistaii	,	2.88	LED 2X2 Troffer or Linear Ambient replacing T8, T12 or	
Small Business Direct Install	All	Lighting	T5/T5HO	
		0 - 0	LED 2X2 Troffer or Linear Ambient replacing T8, T12 or	
Small Business Direct Install	All	Lighting	T5/T5HO fixture	
Small Business Direct Install	All	Lighting	LED Refrigerated Case Lights (4, 5, and 6-foot)	
			LED Refrigerated Case Lights w/Doors 4ft, 5ft, or 6ft replacing	
Small Business Direct Install	All	Lighting	Fluorsecent Refrigerated Case Lights w/Doors 4ft, 5ft, or 6ft	
Small Business Direct Install	All	Lighting	LED Freezer Case Lights (4, 5, and 6-foot)	
			LED Freezer Case Lights w/Doors 4ft, 5ft, or 6ft replacing	
Small Business Direct Install	All	Lighting	Fluorsecent Freezer Case Lights w/Doors 4ft, 5ft, or 6ft	
Small Business Direct Install	All	Lighting	LED Downlight or Retrofit Kit ≤ 13W	
Small Business Direct Install	All	Lighting	LED Downlight or Retrofit Kit replacing 45-60W Fixture	
Small Business Direct Install	All	Lighting	LED Downlight or Retrofit Kit 14 to 21W	
Small Business Direct Install	All	Lighting	LED Downlight or Retrofit Kit replacing 61-100W Fixture	
Small Business Direct Install	All	Lighting	LED Downlight or Retrofit Kit ≥ 22W	
Small Business Direct Install	All	Lighting	LED Downlight or Retrofit Kit replacing 101-155W Fixture	
Small Business Direct Install	All	Lighting	LED Low Bay 30-70W	
Small Business Direct Install	All	Lighting	LED Low Bay Fixture replacing 150W-300W fixture	
Small Business Direct Install	All	Lighting	LED Low/High Bay 71-110W	
Small Business Direct Install	All	Lighting	LED Low/High Bay Fixture replacing 301W-450W fixture	
Small Business Direct Install	All	Lighting	LED High Bay 111-175W	
Small Business Direct Install	All	Lighting	LED High Bay Fixture replacing 451W - 750W fixture	
Small Business Direct Install	All	Lighting	LED High Bay 176-350W	
Small Business Direct Install	All	Lighting	LED High Bay fixture replacing > 750W fixture	
Small Business Direct Install		Lighting	28W - 4 ft fluorescent T8 lamp	
Small Business Direct Install Business Standard	All	Lighting	25W - 4 ft fluorescent T8 lamp LED Low Bay 30-70W	
Business Standard	All	Lighting Lighting	LED Low Bay 50-70W LED Low Bay Fixture replacing 150W-300W fixture	
Business Standard	All	Lighting	LED Low/High Bay 71-110W	
Business Standard	All	Lighting	LED Low/High Bay Fixture replacing 301W-450W fixture	
Business Standard	All	Lighting	LED High Bay 111-175W	
Business Standard	All	Lighting	LED High Bay Fixture replacing 451W - 750W fixture	
Business Standard	All	Lighting	LED High Bay 176-350W	
Business Standard	All	Lighting	LED High Bay fixture replacing > 750W fixture	
Business Standard	All	Lighting	28W - 4 ft fluorescent T8 lamp	
Business Standard	All	Lighting	28W 4ft T8 Lamp Replacing 32W 4ft T8 Lamp	
Business Standard	All	Lighting	25W - 4 ft fluorescent T8 lamp	
Business Standard	All	Lighting	25W 4ft T8 Lamp Replacing 32W 4ft T8 Lamp	
			LED low bay mogul screw-base lamp/retrofit kit replacing	
Business Standard	All	Lighting	150W - 300W fixture	
			LED low/high bay mogul screw-base lamp/retrofit kit replacing	
Business Standard	All	Lighting	301W - 450W fixture	
			LED high bay mogul screw-base lamp/retrofit kit replacing	
Business Standard	All	Lighting	451W - 750W fixture	
			LED high bay mogul screw-base lamp/retrofit kit replacing >	
Business Standard	All	Lighting	750W fixture	

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Valid for Program Implementation Dates: Early 2016 to 36 months following

Search using Drop-down Filters in Headers Column Label: H I J K

Count: 162 Column Equation: see column R = H/L

Count:	162				Column Equation	1:		see column R	= H / L	
			Measure Description						Gros	ss Measure Valu
Program	Segment	End Use	Measure Name	Primary Key	Notes	Unit Definition	Incremental Measure Cost (\$/Unit)	Electric Energy Savings (Annual kWh/unit)	Nameplate Demand Savings (kW/unit)	Peak Coincidence Factor
			LED low bay mogul screw-base lamp/retrofit kit replacing							
Small Business Direct Install	All	Lighting	150W - 300W fixture	0230		per fixture	\$100.00	806.6286	0.176	83%
			LED low/high bay mogul screw-base lamp/retrofit kit replacing							1
Small Business Direct Install	All	Lighting	301W - 450W fixture	0231		per fixture	\$150.00	1,096.0297	0.239	83%
Small Business Direct Install	All	Lighting	LED high bay mogul screw-base lamp/retrofit kit replacing 451W - 750W fixture	0232		per fixture	\$200.00	1,711.7767	0.373	83%
			LED high bay mogul screw-base lamp/retrofit kit replacing >							1
Small Business Direct Install	All	Lighting	750W fixture	0233		per fixture	\$350.00	4,482.6382	0.976	83%
Whole House Efficiency	Single Family	HVAC	Furnace Filter Alarm	0234	Tier 1	per unit	\$2.80	110.0000	0.042	68%
Whole House Efficiency	Single Family	HVAC	Indoor Coil Cleaning_SF:HVAC	0235	Tier 3	per measure	\$63.00	117.0000	0.055	68%
Whole House Efficiency	Single Family	HVAC	Outdoor Coil Cleaning_SF:HVAC	0236	Tier 3	per measure	\$31.00	258.0000	0.120	68%
Whole House Efficiency	Single Family	HVAC	Refrigerant Charge Adjustment (RCA)_SF: HVAC	0237	Tier 3	per measure	\$127.00	856.0000	0.811	68%
Whole House Efficiency	Single Family	HVAC	HVAC Maintenance and Tune-up_SF: HVAC	0238	Tier 3	per measure	\$ 70.00	173.9000	0.017	68%
Whole House Efficiency	Single Family	HVAC	GSHP - EER 23_Early Retirement GSHP_SF: HVAC	0239	Tier 3	per measure	\$ 4,859.00	8607.0000	4.012	72%
Whole House Efficiency	Single Family	HVAC	GSHP - EER 23_Replace at Fail GSHP_SF: HVAC	0240	Tier 3	per measure	\$ 3,200.00	3607.0000	1.681	72%
Whole House Efficiency	Single Family	HVAC	GSHP - EER 23_AC + Early Retirement Electric Resistance Furnac	0241	Tier 3	per measure	\$ 5,250.00	19040.0000	12.678	72%
Whole House Efficiency	Single Family	HVAC	GSHP - EER 23_AC + Replace at Fail Electric Resistance Furnace_	0242	Tier 3	per measure	\$ 4,717.00	15988.0000	10.645	72%
Whole House Efficiency	Single Family	HVAC	GSHP - EER 23_ASHP + Early Retirement or Replace at Fail _SF:	0243	Tier 3	per measure	\$ 5,250.00	12667.0000	5.904	72%

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Count: 162 = I*J

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	Measure Description es									
Program	Program Segment End Use		Measure Name	Coincident Peak Demand Savings (kW/unit)	Annual Operating Hours	Measure Life (Years)	Measure Definition	Measure Efficiency Value		
			LED low bay mogul screw-base lamp/retrofit kit replacing							
Small Business Direct Install	All	Lighting	150W - 300W fixture	0.1457	4,367	12	LED Low Bay (watts)	70		
			LED low/high bay mogul screw-base lamp/retrofit kit replacing							
Small Business Direct Install	All	Lighting	301W - 450W fixture	0.1980	4,367	12	LED High/Low Bay (watts)	110		
			LED high bay mogul screw-base lamp/retrofit kit replacing							
Small Business Direct Install	All	Lighting	451W - 750W fixture	0.3092	4,367	12	LED High Bay (watts)	175		
			LED high bay mogul screw-base lamp/retrofit kit replacing >							
Small Business Direct Install	All	Lighting	750W fixture	0.8097	4,367	12	LED High Bay (watts)	350		
Whole House Efficiency	Single Family	HVAC	Furnace Filter Alarm	0.0286	2,611	7	Furnace Filter Alarm			
Whole House Efficiency	Single Family	HVAC	Indoor Coil Cleaning_SF:HVAC	0.0374	8640	5	Sub-measure of HVAC Maintenance an	N/A		
Whole House Efficiency	Single Family	HVAC	Outdoor Coil Cleaning_SF:HVAC	0.0816	8640	5	Sub-measure of HVAC Maintenance an	N/A		
Whole House Efficiency	Single Family	HVAC	Refrigerant Charge Adjustment (RCA)_SF: HVAC	0.5515	8640	5	Sub-measure of HVAC Maintenance an	N/A		
Whole House Efficiency	Single Family	HVAC	HVAC Maintenance and Tune-up_SF: HVAC	0.0112	8640	5	Sub-measure of HVAC Maintenance an	N/A		
Whole House Efficiency	Single Family	HVAC	GSHP - EER 23_Early Retirement GSHP_SF: HVAC	2.8886	8640	18	EER	23		
Whole House Efficiency	Single Family	HVAC	GSHP - EER 23_Replace at Fail GSHP_SF: HVAC	1.2103	8640	18	EER	23		
Whole House Efficiency	Single Family	HVAC	GSHP - EER 23_AC + Early Retirement Electric Resistance Furnac	9.1282	8640		EER	23		
Whole House Efficiency	Single Family	HVAC	GSHP - EER 23_AC + Replace at Fail Electric Resistance Furnace_	7.6644	8640	18	EER	23		
	a				0.510		EER			
Whole House Efficiency	Single Family	HVAC	GSHP - EER 23_ASHP + Early Retirement or Replace at Fail _SF: H	4.2509	8640	18		23		

ndicates default plan values that can be adjusted for unique installations.

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Valid for Program Implementation Dates: Early 2016 to

Search using Drop-down Filters in Headers
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	Measure Description Programme Technology (1997)								
Program	Segment End Use		Measure Name	Baseline Definition	Baseline Efficiency Value	Electric Energy Savings Algorithm			
			LED low bay mogul screw-base lamp/retrofit kit replacing						
Small Business Direct Install	All	Lighting	150W - 300W fixture	Pulse Start Metal Halide (watts)	201	=ROUND((R283-P283)*(AC283)*M283/1000,4)			
	1		LED low/high bay mogul screw-base lamp/retrofit kit replacing		200	70.117.//2004 2004/4/4 2004/4 4004/4 2004/4			
Small Business Direct Install	All	Lighting	301W - 450W fixture	Pulse Start Metal Halide (watts)	288	=ROUND((R284-P284)*(AC284)*M284/1000,4)			
Small Business Direct Install	All	Lighting	LED high bay mogul screw-base lamp/retrofit kit replacing 451W - 750W fixture	Pulse Start Metal Halide (watts)	453	=ROUND((R285-P285)*(AC285)*M285/1000,4)			
			LED high bay mogul screw-base lamp/retrofit kit replacing >						
Small Business Direct Install	All	Lighting	750W fixture	Pulse Start Metal Halide (watts)	1078	=ROUND((R286-P286)*(AC286)*M286/1000,4)			
Whole House Efficiency	Single Family	HVAC	Furnace Filter Alarm	No Filter		=ROUND(110,4)			
Whole House Efficiency	Single Family	HVAC	Indoor Coil Cleaning_SF:HVAC	kWh, kW	N/A	=ROUND(117,4)			
Whole House Efficiency	Single Family	HVAC	Outdoor Coil Cleaning_SF:HVAC	kWh, kW	N/A	=ROUND(258,4)			
Whole House Efficiency	Single Family	HVAC	Refrigerant Charge Adjustment (RCA)_SF: HVAC	kWh, kW	N/A	=ROUND(856,4)			
Whole House Efficiency	Single Family	HVAC	HVAC Maintenance and Tune-up_SF: HVAC	kWh, kW	N/A	=ROUND(173.9,4)			
Whole House Efficiency	Single Family	HVAC	GSHP - EER 23_Early Retirement GSHP_SF: HVAC	GSHP replacing Operating GSHP – 23 EER	12	=ROUND(8607,4)			
Whole House Efficiency	Single Family	HVAC	GSHP - EER 23_Replace at Fail GSHP_SF: HVAC	GSHP replacing Failed GSHP – 23 EER minimum (EER)	12	=ROUND(3607,4)			
				GSHP replacing operating AC (14 SEER) w/ electric furnace – 23 EER minimum					
Whole House Efficiency	Single Family	HVAC	GSHP - EER 23_AC + Early Retirement Electric Resistance Furnac	(EER)	12	=ROUND(19040,4)			
				GSHP replacing failed AC w/ electric					
Whole House Efficiency	Single Family	HVAC	GSHP - EER 23_AC + Replace at Fail Electric Resistance Furnace_	furnace – 23 EER minimum (EER)	12	=ROUND(15988,4)			
Whole House Efficiency	Single Family	HVAC	GSHP - EER 23 ASHP + Early Retirement or Replace at Fail SF:	GSHP replacing operating or failed ASHP (14 SEER) – 23 EER minimum (EER)	12	-DOUND(43667.4)			
vinole house chiclency	Single Family	ILLAC	OSHF - EEN 25_ASHF + Early Retirement of Replace at Fall _SF: I	T .	12	=ROUND(12667,4)			

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Valid for Program Implementation Dates: Early 2016 to

Search using Drop-down Filters in Headers
Count: 162

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			Measure Description			
Program	Segment	ent End Use Measure Name Incent		Incentive Definition	Net to Gross Ratio (NTG)	Net Electric Energy Savings (Annual kWh/unit)
			LED low bay mogul screw-base lamp/retrofit kit replacing			
Small Business Direct Install	All	Lighting	150W - 300W fixture	per unit	100%	806.63
			LED low/high bay mogul screw-base lamp/retrofit kit replacing			
Small Business Direct Install	All	Lighting	301W - 450W fixture	per unit	100%	1,096.03
			LED high bay mogul screw-base lamp/retrofit kit replacing			
Small Business Direct Install	All	Lighting	451W - 750W fixture	per unit	100%	1,711.78
			LED high bay mogul screw-base lamp/retrofit kit replacing >			
Small Business Direct Install	All	Lighting	750W fixture	per unit	100%	4,482.64
Whole House Efficiency	Single Family	HVAC	Furnace Filter Alarm	Free to customer	100%	110.0000
Whole House Efficiency	Single Family	HVAC	Indoor Coil Cleaning_SF:HVAC		100%	117.0000
Whole House Efficiency	Single Family	HVAC	Outdoor Coil Cleaning_SF:HVAC		100%	258.0000
Whole House Efficiency	Single Family	HVAC	Refrigerant Charge Adjustment (RCA)_SF: HVAC		100%	856.0000
Whole House Efficiency	Single Family	HVAC	HVAC Maintenance and Tune-up_SF: HVAC		100%	173.9000
Whole House Efficiency	Single Family	HVAC	GSHP - EER 23_Early Retirement GSHP_SF: HVAC		100%	8607.0000
Whole House Efficiency	Single Family	HVAC	GSHP - EER 23_Replace at Fail GSHP_SF: HVAC		100%	3607.0000
Whole House Efficiency	Single Family	HVAC	GSHP - EER 23_AC + Early Retirement Electric Resistance Furnac		100%	19040.0000
Whole House Efficiency	Single Family	HVAC	GSHP - EER 23_AC + Replace at Fail Electric Resistance Furnace_		100%	15988.0000
Whole House Efficiency	Single Family	HVAC	GSHP - EER 23_ASHP + Early Retirement or Replace at Fail _SF: I		100%	12667.0000

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Count:	162			+					
			Measure Description		1			1	Su
Program	Segment	End Use	Measure Name	Data Source	Date of Data Revision	Effective Start Date	Effective End Date	Cooling Degree Days (CDD)	Heating Degree Days (HDD)
			LED low bay mogul screw-base lamp/retrofit kit replacing						
Small Business Direct Install	All	Lighting	150W - 300W fixture	AEG KCP&L Program Plan 2016-2018	2/1/2017	3/1/2017			ĺ
			LED low/high bay mogul screw-base lamp/retrofit kit replacing						
Small Business Direct Install	All	Lighting	301W - 450W fixture	AEG KCP&L Program Plan 2016-2018	2/1/2017	3/1/2017			ĺ
			LED high bay mogul screw-base lamp/retrofit kit replacing						
Small Business Direct Install	All	Lighting	451W - 750W fixture	AEG KCP&L Program Plan 2016-2018	2/1/2017	3/1/2017			1
			LED high bay mogul screw-base lamp/retrofit kit replacing >						
Small Business Direct Install	All	Lighting	750W fixture	AEG KCP&L Program Plan 2016-2018	2/1/2017	3/1/2017			1
Whole House Efficiency	Single Family	HVAC	Furnace Filter Alarm	AEG KCP&L Program Plan 2016-2019	2/1/2017	3/1/2017			
Whole House Efficiency	Single Family	HVAC	Indoor Coil Cleaning_SF:HVAC	Ameren Missouri Measure Listing for MEE	2/1/2017	3/1/2017		3020	4470
Whole House Efficiency	Single Family	HVAC	Outdoor Coil Cleaning_SF:HVAC	Ameren Missouri Measure Listing for MEE	2/1/2017	3/1/2017		3020	4470
Whole House Efficiency	Single Family	HVAC	Refrigerant Charge Adjustment (RCA)_SF: HVAC	Ameren Missouri Measure Listing for MEE	2/1/2017	3/1/2017		3020	4470
Whole House Efficiency	Single Family	HVAC	HVAC Maintenance and Tune-up_SF: HVAC	Ameren Missouri Measure Listing for MEE	2/1/2017	3/1/2017		3020	4470
Whole House Efficiency	Single Family	HVAC	GSHP - EER 23_Early Retirement GSHP_SF: HVAC	Ameren Missouri Measure Listing for MEE	2/1/2017	3/1/2017		3020	4470
Whole House Efficiency	Single Family	HVAC	GSHP - EER 23_Replace at Fail GSHP_SF: HVAC	Ameren Missouri Measure Listing for MEE	2/1/2017	3/1/2017		3020	4470
Whole House Efficiency	Single Family	HVAC	GSHP - EER 23_AC + Early Retirement Electric Resistance Furnac	Ameren Missouri Measure Listing for MEE	2/1/2017	3/1/2017		3020	4470
Whole House Efficiency	Single Family	HVAC	GSHP - EER 23_AC + Replace at Fail Electric Resistance Furnace_	Ameren Missouri Measure Listing for MEE	2/1/2017	3/1/2017		3020	4470
Whole House Efficiency	Single Family	HVAC	GSHP - EER 23_ASHP + Early Retirement or Replace at Fail _SF:	Ameren Missouri Measure Listing for MEE	2/1/2017	3/1/2017		3020	4470

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 Early 2016
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 Search using Drop-down Filters in Headers
 AC
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			Measure Description	porting Inform	ation			
Program	Segment	End Use	Measure Name	Quantity1	Quantity1 Description	Quantity2	Quantity2 Description	Quantity3
			LED low bay mogul screw-base lamp/retrofit kit replacing					
Small Business Direct Install	All	Lighting	150W - 300W fixture	1.41	Waste Heat Factor	1.34	Waste Heat Factor	
Small Business Direct Install	All	Lighting	LED low/high bay mogul screw-base lamp/retrofit kit replacing 301W - 450W fixture	1.41	Waste Heat Factor	1.34	Waste Heat Factor	
Small Business Direct Install	All	Lighting	LED high bay mogul screw-base lamp/retrofit kit replacing 451W - 750W fixture	1.41	Waste Heat Factor	1.34	Waste Heat Factor	
Small Business Direct Install	All	Lighting	LED high bay mogul screw-base lamp/retrofit kit replacing > 750W fixture	1.41	Waste Heat Factor	1.34	Waste Heat Factor	
Whole House Efficiency	Single Family	HVAC	Furnace Filter Alarm					
Whole House Efficiency	Single Family	HVAC	Indoor Coil Cleaning SF:HVAC					
Whole House Efficiency	Single Family	HVAC	Outdoor Coil Cleaning SF:HVAC					
Whole House Efficiency	Single Family	HVAC	Refrigerant Charge Adjustment (RCA)_SF: HVAC					
Whole House Efficiency	Single Family	HVAC	HVAC Maintenance and Tune-up_SF: HVAC					
Whole House Efficiency	Single Family	HVAC	GSHP - EER 23_Early Retirement GSHP_SF: HVAC					
Whole House Efficiency	Single Family	HVAC	GSHP - EER 23_Replace at Fail GSHP_SF: HVAC					
Whole House Efficiency	Single Family	HVAC	GSHP - EER 23_AC + Early Retirement Electric Resistance Furnac					
Whole House Efficiency	Single Family	HVAC	GSHP - EER 23_AC + Replace at Fail Electric Resistance Furnace_					
Whole House Efficiency	Single Family	HVAC	GSHP - EER 23_ASHP + Early Retirement or Replace at Fail _SF: H					

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			Measure Description	
Program	Segment	End Use	Measure Name	Quantity3 Description
			LED low bay mogul screw-base lamp/retrofit kit replacing	
Small Business Direct Install	All	Lighting	150W - 300W fixture	
			LED low/high bay mogul screw-base lamp/retrofit kit replacing	
Small Business Direct Install	All	Lighting	301W - 450W fixture	
·			LED high bay mogul screw-base lamp/retrofit kit replacing	·
Small Business Direct Install	All	Lighting	451W - 750W fixture	
			LED high bay mogul screw-base lamp/retrofit kit replacing >	
Small Business Direct Install	All	Lighting	750W fixture	
Whole House Efficiency	Single Family	HVAC	Furnace Filter Alarm	
Whole House Efficiency	Single Family	HVAC	Indoor Coil Cleaning_SF:HVAC	
Whole House Efficiency	Single Family	HVAC	Outdoor Coil Cleaning_SF:HVAC	
Whole House Efficiency	Single Family	HVAC	Refrigerant Charge Adjustment (RCA)_SF: HVAC	
Whole House Efficiency	Single Family	HVAC	HVAC Maintenance and Tune-up_SF: HVAC	
Whole House Efficiency	Single Family	HVAC	GSHP - EER 23_Early Retirement GSHP_SF: HVAC	
Whole House Efficiency	Single Family	HVAC	GSHP - EER 23_Replace at Fail GSHP_SF: HVAC	
Whole House Efficiency	Single Family	HVAC	GSHP - EER 23_AC + Early Retirement Electric Resistance Furnac	
Whole House Efficiency	Single Family	HVAC	GSHP - EER 23_AC + Replace at Fail Electric Resistance Furnace_	
Whole House Efficiency	Single Family	HVAC	GSHP - EER 23_ASHP + Early Retirement or Replace at Fail _SF: H	